EWP PRODUCT GUIDE

For Use With Products Manufactured by





SKH2520R-2



LSSH35



THFI2514



TFL25118





Follow these instructions to ensure the proper installation of MiTek products.

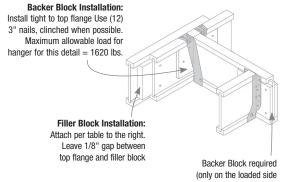
- See current MiTek USP Product Catalog for General Notes, Warranty, and installation information for hanger models, joist sizes, and header situations not shown.
- Loads listed address hanger/header/fastener limitations as well as joist/hanger limitations assuming header material is Douglas Fir-Larch (DF),
 LVL (SG >= 0.50) or Spruce-Pine-Fir (S-P-F). Joist reaction should be checked by a qualified designer to ensure proper hanger selection.
- Uplift loads have been increased 60% for wind or seismic loads and no further increase shall be permitted. Reduce loads according to code for normal duration loading such as cantilever construction.
- Hangers for joists without web stiffeners must support the I-Joist's top flange
 and provide lateral resistance with no less than 1/8" contact. Hangers for joists
 with web stiffeners must support a minimum of 60% of joist depth or potential
 joist rotation must be addressed. For hangers less than 60% joist depth, install
 framing angles, one on each side, for lateral stability. See page 3.
- The type and quantity of fasteners used to install MiTek products is critical to connector performance. To achieve the factored resistances shown in this

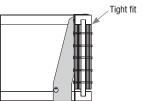
- document, install with the fasteners specified for that particular product. All specified fasteners must be properly installed prior to applying load of any kind to the connection.
- Throughout this document, dimensions are expressed in inches and loads in pounds, unless specifically noted otherwise.
- Load values for 10d and 16d designations in the fastener schedules throughout this document refer to common wire nails, unless noted otherwise.
- The allowable loads shown in this catalog are based on Allowable Stress Design methodology.
- Multiple Joist Plies: Fasten together multiple plies of wood I-joists, in accordance with the manufacturer's installation guidelines, such that the joists act as a single unit.
- Sloped Joists: Use slope seat hangers and beveled web stiffeners whenever the slope exceeds the following: ½:12 for seat bearing lengths of ½" or less; 3/8:12 for bearing lengths between ½" and ¾"; and ½:12 for bearing lengths in excess of ¾".

Backer Blocks — Pattern the nails used to install backer blocks or web stiffeners in wood PKI Joist to avoid splitting the block. The nail pattern should be sufficiently spaced to avoid the same grain line, particularly with solid sawn backer blocks. Backer blocks must be installed on wood PKI

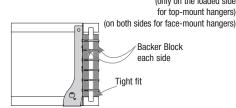
Joists acting as the header, or supporting member. Install in accordance with the Pinkwood installation guidelines. The nails used to install hangers mounted to a PKI Joist header must penetrate through the web and into the backer block on the opposite side.

With top flange hangers, backer block required only for downward loads exceeding 250 lbs or for uplift conditions





Typical Top Mount Hanger backer block installation



Typical Face Mount Hanger backer block installation

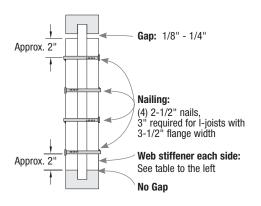
Filler and Backer Block sizes

PKI	Backer	Block *		Filler Block
Flange Width	Thickness (in)	Minimum Depth (in)**	Joist Depth (in)	Filler Block Size (in)
widti	(111)	Deptii (iii)	9-1/2	2-1/8 to 2-1/4 x 6
			11-7/8	2-1/8 to 2-1/4 x 8
2-1/2	1	5-1/2	14	2-1/8 to 2-1/4 x 10
			16	2-1/8 to 2-1/4 x 12
			9-1/2	3 x 6
3-1/2	1-1/2	7-1/4	11-7/8	3 x 8
3-1/2	1-1/2	7-1/4	14	3 x 10
			16	3 x 12

^{*} Minimum grade for backer block material shall be Utility grade SPF (south) or better for solid sawn lumber and Rated Sheathing grade for wood structural panels.

Web Stiffener Attachment for Joists

PKI Flange Width	Web Stiffener Size Each Side of Web
2-1/2"	1" x 2-5/16" minimum width
3-1/2"	1-1/2" x 2-5/16" minimum width



^{**} For face-mount hangers, use net joist depth minus 3-1/4" for joist with 1-1/2" thick flanges. For 1-5/16" thick flanges, use net depth minus 2-7/8".

EWP Installation

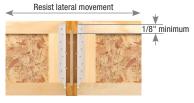


Support Height & Lateral Stability

Hangers for joists without web stiffeners must support the I-Joist's top flange and provide lateral resistance with no less than 1/8" contact.

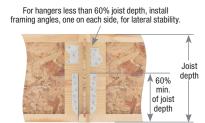
MiTek recommends that hangers for joist with web stiffeners should







be 60% of the joist height for stability during construction. If this cannot be accomplished, potential joist rotation must be resolved by other means.



(Top flange support requirements can be verified in EWP Top Mount Hangers charts under the Web Stiffener Req. column of MiTek's USP Product Catalog.)

Nailer Installations

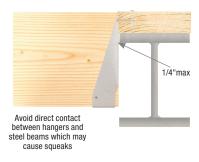
Correct Hanger Attachment to Nailer

A nailer or sill plate is considered to be any wood member attached to a steel beam, concrete block wall, concrete stem wall, or other type of support unsuitable for nailing which is used as a nailing surface for top mount hangers to hold beams or joists.

Nailer Sized Correctly

Top flange of hanger is fully supported and recommended nails have full penetration into nailer, resulting in a carried member hanging safely at the proper height.

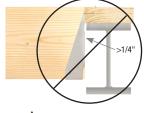
The nailer must be sized to fit the support width as shown and be of sufficient thickness to satisfy recommended top flange nailing requirements. A design professional must specify nailer attachment to steel beams.



Wrong Nailer Size Causes Component Failure



Top flange not fully supported can cause nail breakout. Or, by fully supporting top flange, hanger is tilted back, causing lifting of carried member which results in uneven surfaces and squeaky floors.



Too Wide

Loading can cause cross grain breaking of nailer. The recommended nailer overhang is 1/4" maximum per side.



Too Thin

Top flange nailing cannot fully penetrate nailer, causing reduced allowable loads. Never use hangers which require multiple face nails since the allowable loads are dependent on all nail holes being used.

Top Flange Hangers

The thickness of the hanger metal and nail heads on top mount hangers must be evaluated for the effect on subsequent sheathing. Ensure the top mount hanger is installed so the flanges of the hanger are not over-spread which tends to elevate the supported I-Joist, causing uneven floor surfaces and squeaking. Similarly, ensure the hanger is installed plumb such that the face flanges of the hanger are mounted firmly against the wide-face surface of the header.









Single PKI Joist - U.S. Allowable Load (Lbs)



	Top Mount Hangers ⁴													Fa	ce Mo	unt Ha	ngers				
				Faste	ener S	chedule ⁵	L	/L	S-I	P-F				Fas	tener 9	Sched	ule ⁵	L\	/L	S-I	P-F
				der		Joist								Hea	der	Jo	ist				
Joist Height	USP Stock No. ¹	Length of Hanger Seat (in)		Туре	Otv	Type	Down ²	Uplift ³	Down ²	Uplift ³	USP Stock No. ¹	Length of Hanger Seat (in)	Min/	Ωŧν	Туре	Ωtv	Tyne	Down ²	Uplift ³	Down ²	Uplift ³
PKI 10.		ocat (III)	QLy	Турс	Qty	Турс	10070	10070		Width =		ocat (III)	WIGA	Qty	Турс	Qty	турс	10070	10070	10070	10070
9-1/2	TFL2595	2	6	10d	2	10d x 1-1/2	1585	130	1215	100	THFI2595	2-1/2		8	10d			960	120	845	95
11-7/8	TFL25118	2	6	10d	2	10d x 1-1/2	1585	130	1215	100	THFI25118	2-1/2		10	10d			1200	120	950	95
14	TFL2514	2	6	10d	2	10d x 1-1/2	1585	130	1215	100	THFI2514	2-1/2	Min	12	10d			1440	120	1265	95
	II LLOTT	_				100 X 1 172	1000	100	1210	100	111112011	- 1/2	Max	14	100			1680	120	1480	00
16	TFL2516	2	6	10d	2	10d x 1-1/2	1585	130	1215	100	IHFL2516	2-1/2	Min	14	10d			1680	50	1455	40
DI(1.05											0.4/011		Max	16				1920		1660	
	plus, 40, 50	0.0/0	10	104	0	104 1 1/0	0070	000		Width =		0.1/0		10	104			1000	F0	1040	40
9-1/2	TH035950	2-3/8	10	10d	2	10d x 1-1/2	2370	230	2370	175	IHFL35925	2-1/2		10	10d			1200	50	1040	40
11-7/8	TH035118	2-3/8	10	10d	2	10d x 1-1/2	2525	230	2265	175	IHFL35112	2-1/2	Min	10	10d			1200	50	1040	40
													Max	12	\square			1440		1245	
14	TH035140	2-3/8	12	10d	2	10d x 1-1/2	2400	230	1835	175	IHFL3514	2-1/2	Min	12	10d			1440	50	1245	40
				_	_								Max	14	\vdash			1680		1455	\vdash
16	TH035160	2-3/8	12	10d	2	10d x 1-1/2	2400	230	1835	175	IHFL3516	2-1/2	Min	14	10d			1680	50	1455	40
													Max	16				1920		1660	

- 1) Shaded hangers require web stiffeners at joist ends. Web stiffeners may be required for non-shaded hangers by PinkWood.
- Loads listed are based on hanger attachment to a DF or S-P-F species solid sawn or LVL header.Some loads may be increased for duration of load adjustments. Refer to MiTek USP Product Catalog for details.
- 3) Uplift loads have been increased 60% for wind and seismic loading; no further increase shall be permitted.
- 4) Top Mount Hangers assume supporting headers to have a minimum height of 5-1/2" and a minimum thickness of the length of the header nails or the depth of the top flange, whichever is greater. For wood nailer options or header materials not included in this table, refer to the current MiTek USP Product Catalog.
- 5) Nails: 10d x 1-1/2 nails are 0.148" diameter x 1-1/2" long, 10d nails are 0.148" diameter x 3" long.

			Adju	stable	Heigh	t Hangers						Ske	wed 4	5° Hai	ngers				
				Faste	ener S	chedule ⁷	LVL	S-P-F					Faste	ener S	chedule ⁷	L\	/L	S-I	P-F
		Length	Hea	ader		Joist				l		Hea	der		Joist				
Joist Height	USP Stock No. ¹	of Hanger Seat (in)	Otv	Tyne	Otv	Type	Down ²	Down ²	USP Stock No. ¹	Length of Hanger Seat (in)	Min/	Ωtv	Tyne	Qty	Туре	Down ²	Uplift ³	Down ² 100%	Uplift ³
PKI 10,		CCCCC (III)	Q, L)	,,,,,	Q(J)	1,750	10070		Joist Width = 2-1/2"	Cour (III)		ų, i	1) 50	u, i	.,,,,,	10070	10070	10070	10070
9-1/2	MSH322 ^{5,7}	1-3/4	6	10d	4	10d x 1-1/2	2175	1720	SKH2520L/R	1-7/8		14	10d	10	10d x 1-1/2	1650	1530	1380	1205
11-7/8	MSH322 ⁵	1-3/4	6	10d	4	10d x 1-1/2	2175	1720	SKH2520L/R	1-7/8		14	10d	10	10d x 1-1/2	1650	1530	1380	1205
14	MSH322 ⁵	1-3/4	6	10d	4	10d x 1-1/2	2175	1720	SKH2524L/R	1-7/8		16	10d	10	10d x 1-1/2	1890	1530	1635	1205
16	MSH322 ⁵	1-3/4	6	10d	4	10d x 1-1/2	2175	1720	SKH2524L/R	1-7/8		16	10d	10	10d x 1-1/2	1890	1530	1635	1205
PKI 35	plus, 40, 50								Joist Width = 3-1/2"										
9-1/2	MSH422 ^{5,6}	1-3/4	6	10d	6	10d	2355	1865	HD410_SK45L/R_BV 4,8	2-1/2	Min	14	16d	6	10d	2155	880	1895	775
0 ./2	WIOTITEE	. 0, .	Ľ						110410_0143011_04	- "-	Max	20		10		3080	1465	2710	1285
11-7/8	MSH422 ⁵	1-3/4	6	10d	6	10d	2355	1865	HD410_SK45L/R_BV 4,8	2-1/2	Min	14	16d	6	10d	2155	880	1895	775
					_						Max	20		10		3080	1465	2710	1285
14	MSH422 ⁵	1-3/4	6	10d	6	10d	2355	1865	HD414_SK45L/R_BV 4,8	2-1/2	Min	18	16d	8	10d	2770	1165	2440	925
			<u> </u>								Max	26		12		4005	1755	3520	1545
16	MSH422 ⁵	1-3/4	6	10d	6	10d	2355	1865	HD414 SK45L/R BV 4,8	2-1/2	Min	18	16d	8	10d	2770	1165	2440	925
										1	Max	26	'	12		4005	1755	3520	1545

- 1) Shaded hangers require web stiffeners at joist ends.
- Loads listed are based on hanger attachment to a DF or S-P-F species solid sawn or LVL header.
 Some loads may be increased for duration of load adjustments. Refer to MiTek USP Product Catalog for details.
- Uplift loads have been increased 60% for wind and seismic loading; no further increase shall be permitted.
- 4) Bevel cut required on end of joist to achieve design loads.

- 5) MSH allowable loads listed in this table assume Top-Min mounting condition installed with 4 10d top nails and 2 10d face nails. For MSH Face-Max and Top-Max mounting conditions not included in this table, refer to the current MiTek USP Product Catalog.
- 6) Flanges on the bucket of the hanger may extend above the top of the joist.
- 7) NAILS: 10d x 1-1/2 nails are 0.148" dia. x 1-1/2" long, 10d nails are 0.148" dia. x 3" long, 16d nails are 0.162" dia. x 3-1/2" long.













SKH_L left shown

Double PKI Joist - U.S. Allowable Load (Lbs)



				Top M	ount l	lange	rs ⁴								Fac	e Mou	nt Hangers				
			Fas	tener (Sched	ule ⁵	LV	/L	S-I	P-F					Faste	ner S	chedule ⁵	LV	٧L	S-I	P-F
		Length	Hea	ader	Jo	ist						Length		Hea	der		Joist				
Joist	USP	of Hanger	01		01	-	Down ²	Uplift ³	Down ²		USP	of Hanger		01	-	01	.	Down ²		Down ²	
Height	Stock No.1	Seat (in)	Qty	Type	Qty	Type	100%	160%	100%	160%	Stock No.'	Seat (in)	IVIax	Qty	Type	Qty	Туре	100%	160%	100%	160%
Double	PKI 10, 20, 23									Joist Wi	atn = 5"			4.0	40.1			1050		1100	
9-1/2	TH025950-2	3	10	16d	6	10d	3640	1145	2790	880	IHF25925-2	2-1/2	Min	10	10d	2	10d x 1-1/2	1250	330	1100	260
													Max	24	16d			3530		3105	
11-7/8	TH025118-2	3	10	16d	6	10d	3640	1145	2790	880	IHF25112-2	2-1/2	Min	10	10d	2	10d x 1-1/2	1250	330	1100	260
					_			_					Max	24	16d			3530		3105	
14	TH025140-2	3	12	16d	6	10d	4420	1145	3390	880	THF25140-2	2-1/2		20	10d	6	10d	2660	1235	2340	975
16	TH025160-2	3	12	16d	6	10d	4420	1145	3390	880	THF25160-2	2-1/2		24	10d	6	10d	3190	1235	2810	975
Double	PKI 35 plus, 40	, 50								Joist Wi	dth = 7"										
9-1/2	BPH7195	3	10	16d	6	10d	3100	1275	2370	1105	HD7100	2-1/2	Min	14	16d	6	16d	2155	1305	1895	1035
3-1/2	DI 117 133		10	100	"	Tou	3100	1275	2370	1103	1107 100	2-1/2	Max	18	Tou	8	100	2770	1845	2440	1585
11-7/8	BPH71118	3	10	16d	6	10d	3075	1275	2350	1105	HD7120	2-1/2	Min	16	16d	6	16d	2465	1305	2165	1035
11-7/0	DFII/ I I I I O	3	10	Tou	0	Tou	3073	12/3	2330	1105	ΠD <i>1</i> 120	2-1/2	Max	22	Tou	8	Tou	3390	1845	2980	1620
14	BPH7114	3	10	16d	6	104	2075	1275	2350	1105	HD7140	2-1/2	Min	20	16d	8	16d	3080	1845	2710	1585
14	DPH/114	3	10	100	٥	10d	3075	12/5	2350	1105	140 ועח	2-1/2	Max	26	100	12	100	4005	2765	3520	2430
16	BPH7116	3	10	16d	6	10d	3075	1275	2350	1105	HD7160	2-1/2		24	16d	8	10d	3695	1560	3250	1375

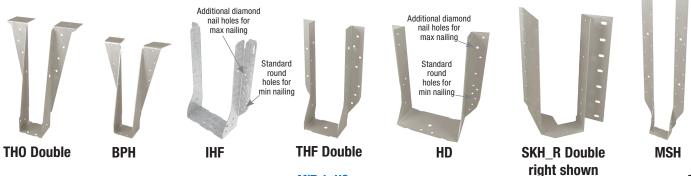
- 1) Shaded hangers require web stiffeners at joist ends.
- 2) Loads listed are based on hanger attachment to a DF or S-P-F species solid sawn or LVL header. Some loads may be increased for duration of load adjustments. Refer to MiTek USP Product Catalog for details.
- 3) Uplift loads have been increased 60% for wind and seismic loading; no further increase shall be permitted.
- 4) Top Mount Hangers assume supporting headers to have a minimum height of 5-1/2" and a minimum thickness of the length of the header nails or the depth of the top flange, whichever is greater. For wood nailer options or header materials not included in this table, refer to the current MiTek USP Product Catalog.
- 5) NAILS: 10d nails are 0.148" dia. x 3" long, 16d nails are 0.162" dia. x 3-1/2" long.

16d sinkers are 0.148" dia. x 3-1/4" long and may be used where 10d commons are specified.

		Adjusta	able H	eight l	lange	rs					Ske	ewed 4	15° Ha	ngers					
			Fas	tener	Sched	ule ⁸	LVL	S-P-F				Fas	tener :	Sched	ule ⁸	L	/L	S-I	P-F
				ader	Jo	ist				Length of		Header		Jo	ist				
Joist	USP	Length of Hanger					Down ²	Down ²	USP	ı •.	Min/					Down ²	Uplift ³	Down ²	Uplift ³
Height	Stock No.1	Seat (in)	Qty	Туре	Qty	Туре	100%	100%	Stock No. ¹	Seat (in)	Max	Qty	Туре	Qty	Туре	100%	160%	100%	160%
Double	PKI 10, 20, 23								Joist Width = 5"										
9-1/2	MSH2622-2 ⁶	1-3/4	6	10d	4	10d	2355	1865	SKH2520L/R-2 ⁵	3-1/2		14	10d	10	10d	1710	1645	1480	1265
11-7/8	MSH2622-2 ⁶	1-3/4	6	10d	4	10d	2355	1865	SKH2520L/R-2 ⁵	3-1/2		14	10d	10	10d	1710	1645	1480	1265
14	MSH2622-2 ⁶	1-3/4	6	10d	4	10d	2355	1865	SKH2524L/R-2 ⁵	3-1/2		16	10d	10	10d	1950	1680	1690	1295
16	MSH2622-2 ⁶	1-3/4	6	10d	4	10d	2355	1865	SKH2524L/R-2 ⁵	3-1/2		16	10d	10	10d	1950	1680	1690	1295
Double	PKI 35 plus, 40, 5	0							Joist Width = 7"										
9-1/2	MSH422-2 ^{6,7}	2	8	16d	6	16d	3740	2665	HD7100 SK45L/R BV ^{4,5}	2-1/2	Min	14	16d	6	16d	2155	980	1895	775
3 1/2	WIOTI4ZZ-Z			100		100	0740	2000	TID7 TOO_SIX43E/TI_BV	2 1/2	Max	18	100	8	100	2770	1385	2440	1190
11-7/8	MSH422-2 ⁶	2	8	16d	6	16d	3740	2665	HD7120 SK45L/R BV ^{4,5}	2-1/2	Min	16	16d	6	16d	2465	980	2165	775
11 7/0	WISH1422-2			100		100	0740	2000	TID7 120_SK43L/K_DV	2 1/2	Max	22	100	8	100	3390	1385	2980	1215
14	MSH422-2 ⁶	2	8	16d	6	16d	3740	2665	HD7140_SK45L/R_BV ^{4,5}	2-1/2	Min	20	16d	8	16d	3080	1385	2710	1190
	IVIOI 1422=2			1.50			0,40	2000	TID/ 140_SIX43L/N_DV	- ""	Max	26	.50	12	130	4005	2075	3520	1825
16	MSH422-2 ⁶	2	8	16d	6	16d	3740	2665	HD7140 SK45L/R BV ^{4,5}	2-1/2	Min	20	16d	8	16d	3080	1385	2710	1190
10	WIOI 1422-2		J	100	J	100	0740	2000	11D7 140_3N43L/N_BV	2 1/2	Max	26	100	12	100	4005	2075	3520	1825

- 1) Shaded hangers require web stiffeners at joist ends.
- Loads listed are based on hanger attachment to a DF or S-P-F species solid sawn or LVL header.
 Some loads may be increased for duration of load adjustments. Refer to MiTek USP Product Catalog for details.
- Uplift loads have been increased 60% for wind and seismic loading; no further increase shall be permitted.
- 4) Hangers are special order. Consult MiTek for pricing and lead times.

- 5) Bevel cut required on end of joist to achieve design loads.
- 6) MSH allowable loads listed in this table assume Top-Min mounting condition. For MSH Face-Max and Top-Max mounting conditions not included in this table, refer to the current MiTek USP Product Catalog.
- 7) Flanges on the bucket of the hanger may extend above the top of the joist.
- 8) NAILS: 10d nails are 0.148" dia. x 3" long and 16d nails are 0.162" dia. x 3-1/2" long. 16d sinkers are 0.148" dia. x 3-1/4" long and may be used where 10d commons are specified.



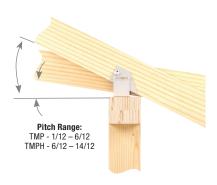
MiTek-US.com email: USPcustomerservice@mii.com

Variable Pitch Connectors - U.S. Allowable Load (Lbs) MiTek

The TMP and TMPH are designed to make rafter-to-plate connections and eliminate time-consuming bird's-mouth notching or bevel plate installation.

Installation:

- Use all specified fasteners.
- Position connector on top plate. Fasten connector to outside of top plate with specified nails. Insert rafter into rafter pocket. Adjust rafter and pocket to correct pitch. Fasten rafter to connector with specified nails. For TMP: drive nails through the opposing slots in the pocket. For TMPH: slide the fulcrum until it supports the pocket at the desired pitch and drive nails down through the fulcrum base into the top plate to lock the fulcrum into position.









Typical TMP installation

Typical TMPH installation

TMP Chart

			Faste	ner S	chedule ⁴	D	F	S-I	P-F
Joist	USP		Plate		Rafter	Down ²	Uplift ³	Down ²	Uplift ³
Height	Stock No.	Qty	Туре	Qty	Туре	100%	160%	100%	160%
PKI 10, 20,	23			Jo	ist Width = 2-1/2"				
All	TMP25	6	10d	4	10d x 1-1/2	1705	250	1705	190
PKI 35 plus	s, 40, 50			Jo	ist Width = 3-1/2"				
All	TMP4	6	10d	4	10d x 1-1/2	1705 250		1705	190

- 1) Web stiffeners may be required for hanger by PinkWood.
- Loads listed are based on hanger attachment to a DF or S-P-F species solid sawn or LVL header. Loads are governed by test results; no further increase shall be permitted.
- Uplift loads have been increased 60% for wind and seismic loading; no further increase shall be permitted.
- 4) **NAILS:** 10d x 1-1/2 nails are 0.148" dia. x 1-1/2" long, 10d nails are 0.148" dia. x 3" long.

Fulcrum

TMPH Chart

			Fas	stener \$	Sched	lule ⁴					Α	llowable	Loads	(Lbs.)			
			Plate			Rafter					Acc	ording t	o Pitch²	!			
Joist	USP	Тор	Side				Wood										Uplift ³
Height	Stock No.1	Qty	Qty	Туре	Qty	Type	Species	6/12	7/12	8/12	9/12	10/12	11/12	12/12	13/12	14/12	160%
PKI 10	, 20, 23		Jois				st Width =	2-1/2"									
All	TMPH25	8	2	10d	8	10d x 1-1/2	DF	3190	3290	3390	3140	2900	2710	2520	2230	1950	260
All	TIVITTIZJ	0		100	0	10u x 1-1/2	S-P-F	2535	2615	2695	2500	2305	2155	2000	1775	1545	205
PKI 35	plus, 40, 50					Jois	st Width =	3-1/2"									
All	TMPH4	8	2	10d	8	10d x 1-1/2	DF	3190	3290	3390	3140	2900	2710	2520	2230	1950	260
All	TIVIT 114	ľ	4	100	0	100 X 1-1/2	S-P-F	2525	2605	2685	2495	2300	2150	1995	1770	1540	205

- 1) Web stiffeners are required for all Wood I-Joist installations.
- 2) Loads listed are based on hanger attachment to a DF or S-P-F species solid sawn or LVL header. Loads are governed by test results; no further increase shall be permitted.
- 3) Uplift loads have been increased 60% for wind and seismic loading; no further increase shall be permitted.
- 4) **NAILS:** 10d x 1-1/2 nails are 0.148" dia. x 1-1/2" long, 10d nails are 0.148" dia. x 3" long.

Slope/Skew Hangers - U.S. Allowable Load (Lbs)



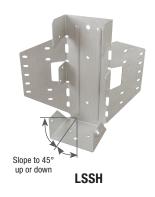
The LSSH series connects rafters to ridge beams in vaulted roof structures. This series is field adjustable to meet a variety of skew and/or slope applications. Slopes and skews 0° to 45°.

Installation:

Use all specified fasteners.

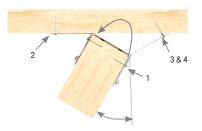
Steps: (See Figure 1)

- Position LSSH connector against plumb-cut end of joist. Fasten joist side flanges on both sides with 10d (0.148") x 1-1/2" nails. Bend seat up to fit against joist bottom and drive (1) 10d (0.148") x 1-1/2" nail through bottom seat into joist bottom flange. Drive (2) 10d (0.148") x 1-1/2" nail at downward angle through dimpled nailing guides.
- **2.** Lean connector and rafter end against ridge beam at desired position. Install 10d (0.148" x 3") or 16d (0.162" x 3-1/2") nails through nail holes into ridge beam at right 90° angle. If skewing the rafter, only drive nails into ridge beam on inside flange.
- 3. Bend flange to desired angle.
- **4.** Hammer outside flange until edge touches header. Fasten outside flange to ridge by driving 10d (0.148" x 3") or 16d (0.162" x 3-1/2") nails through nail holes.
- Web stiffeners are required for all wood I-Joist installations.
- Designer may consider adding a tension restraint for the supported member for roof slopes exceeding 6/12.





Typical LSSH179 installation



Skew to 45° maximum

Figure 1

				Fastene	er Sched	ule ⁵	D	F	S-I	P-F
			He	ader		Joist				
Joist Height	USP Stock No. ¹	Installation Type	Qty	Туре	Qty	Туре	Down ² 100%	Uplift ³ 160%	Down ² 100%	Uplift ³ 160%
PKI 10, 20, 23			Jois	t Width = 2	2-1/2"					
		Sloped Only	18	16d	12	10d x 1-1/2	2095		1640	
9-1/2 — 16	LSSH25	Skewed Only <u>or</u> Sloped & Skewed	14	16d	12	10d x 1-1/2	1610	945	1260	740
PKI 35 plus, 40	, 50		Jois	Width = 3	3-1/2"					
		Sloped Only	18	16d	12	10d x 1-1/2	2645		2345	
9-1/2 — 16	6 LSSH35	Skewed Only <u>or</u> Sloped & Skewed	14	16d	12	10d x 1-1/2	1610	1310	1255	1020

¹⁾ Shaded hangers require web stiffeners at joist ends.

²⁾ Loads listed are based on hanger attachment to a DF or S-P-F species solid sawn or LVL header. Some loads may be increased for duration of load adjustments. Refer to MiTek USP Product Catalog for details.

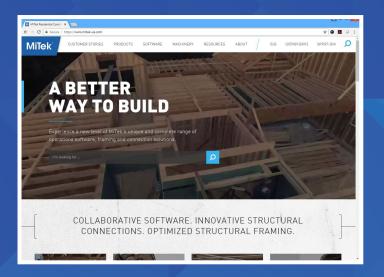
³⁾ Uplift loads have been increased 60% for wind and seismic loading; no further increase shall be permitted.

⁴⁾ Supplemental lateral support connection recommended when hanger height is less than 60% of joist height.

⁵⁾ NAILS: 10d x 1-1/2 nails are 0.148" dia. x 1-1/2" long, 16d nails are 0.162" dia. x 3-1/2" long.

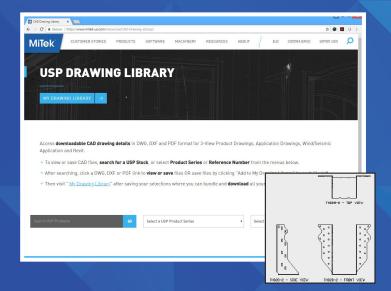
SPECIFICATION TOOLS

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