

LSSH Slope/Skew Hangers



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 to any pitch up to 45° up or down and skews up to 45° right or left.

Materials: See chart

Finish: G90 galvanizing; LSSH15-TZ: G-185 galvanizing

Options: See current catalog for options.

Codes: Factored resistances are derived from data submitted to various North American building code evaluators.

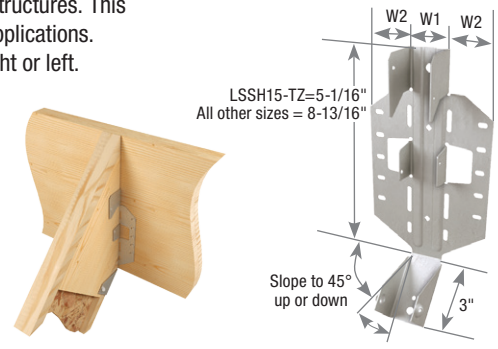
Installation:

- Use all specified fasteners.

Steps:

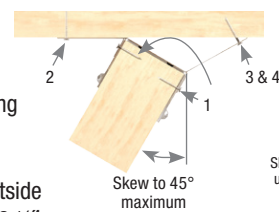
1. Position LSSH connector against plumb-cut end of rafter joist. Fasten joist side flanges with 10d (0.148") x 1 1/2" nails. Bend seat up to fit against joist bottom and drive (1) 10d (0.148") x 1 1/2" nail through bottom seat into rafter bottom. Drive (2) 10d (0.148") x 1 1/2" nails at downward angle 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 outside 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

LSSH210



LSSH35

Rafter Width (in)	MiTek Stock No.	Ga.	Dimensions (in)		Fastener Schedule ²				DF Factored Resistance				S-P-F Factored Resistance			
			W1	W2	Header		Rafter		Lbs		kN		Lbs		kN	
					Qty	Type	Qty	Type	Vertical 100%	Uplift ¹ 115%	Vertical 100%	Uplift ¹ 115%	Vertical 100%	Uplift ¹ 115%	Vertical 100%	Uplift ¹ 115%
SLOPED ONLY HANGERS																
1-1/2	LSSH15-TZ	18	1-9/16	1-3/4	6	10d HDG	7	10d x 1-1/2 HDG	1590	1175	7.07	5.23	1250	925	5.56	4.11
1-1/2	LSSH210	18	1-9/16	1-3/4	10	10d	7	10d x 1-1/2	2685	1695	11.94	7.54	2110	1330	9.39	5.92
1-3/4	LSSH179	18	1-13/16	1-5/8	10	10d	7	10d x 1-1/2	2685	1695	11.94	7.54	2110	1330	9.39	5.92
2 - 2-1/8	LSSH20	18	2-1/8	2-1/2	10	10d	7	10d x 1-1/2	2535	1555	11.28	6.92	1990	1220	8.85	5.43
2-1/4 - 2-5/16	LSSH23	18	2-5/16	2-3/8	10	10d	7	10d x 1-1/2	2535	1555	11.28	6.92	1990	1220	8.85	5.43
2-1/2	LSSH25	16	2-9/16	2-3/4	18	16d	12	10d x 1-1/2	4125	1895	18.35	8.43	3240	1490	14.41	6.63
2-5/8	LSSH26	16	2-11/16	2-5/8	18	16d	12	10d x 1-1/2	4125	1895	18.35	8.43	3240	1490	14.41	6.63
3	LSSH31	16	3-1/8	3-3/4	18	16d	12	10d x 1-1/2	5065	2515	22.53	11.19	3980	1975	17.70	8.79
3-1/2	LSSH35	16	3-9/16	3-1/2	18	16d	12	10d x 1-1/2	5065	2515	22.53	11.19	3980	1975	17.70	8.79
SKEWED HANGERS or SLOPED & SKEWED HANGERS																
1-1/2	LSSH15-TZ	18	1-9/16	1-3/4	6	10d HDG	7	10d x 1-1/2 HDG	1295	1175	5.76	5.23	1015	925	4.51	4.11
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2-1/2	LSSH25	16	2-9/16	2-3/4	14	16d	12	10d x 1-1/2	2895	1895	12.88	8.43	2270	1490	10.10	6.63
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3-1/2	LSSH35	16	3-9/16	3-1/2	14	16d	12	10d x 1-1/2	3045	2515	13.55	11.19	2390	1975	10.63	8.79

1) Factored resistances have been increased 15% for short-term loads such as wind and earthquake; no further increase allowed.
 2) **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.

Use in conjunction with MiTek's current Canadian Product Catalogue for detailed hanger information.

PEO
Certificate No. 10889485



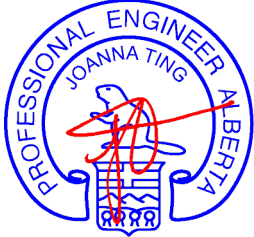
Dec. 14, 2017

Valid through Dec. 31, 2019



LSSH Slope/Skew Hangers

APEGA
Permit No. P3837



Dec. 14, 2017

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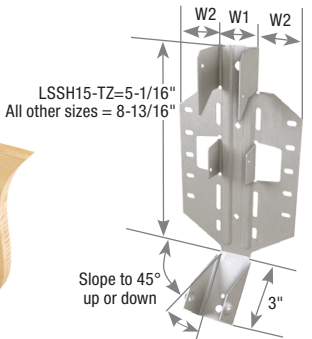
Materials: See chart
Finish: G90 galvanizing; LSSH15-TZ: G-185 galvanizing
Options: See current catalog for options.
Codes: Factored resistances are derived from data submitted to various North American building code evaluators.

Installation:
 • Use all specified fasteners.
Steps:

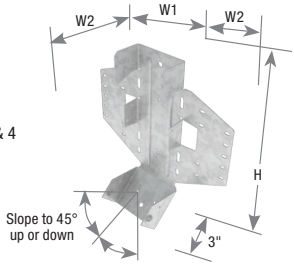
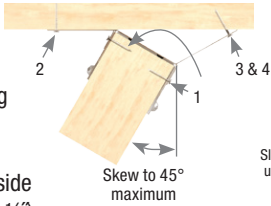
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LSSH210



LSSH35

Rafter Width (in)	MiTek Stock No.	Ga.	Dimensions (in)		Fastener Schedule ²				DF Factored Resistance				S-P-F Factored Resistance			
			W1	W2	Header		Rafter		Lbs		kN		Lbs		kN	
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Use in conjunction with MiTek's current Canadian Product Catalogue for detailed hanger information.

MiTek supplies quality products to build Stronger Safer Structures
 MiTek.ca

Valid through Dec. 31, 2019



Dec. 14, 2017

APEGM
Certificate No. 96



Dec. 14, 2017

APEGS
Certificate No. C0940



Dec. 14, 2017

YR. MN. DAY

APENS
Permit No. 15800 0



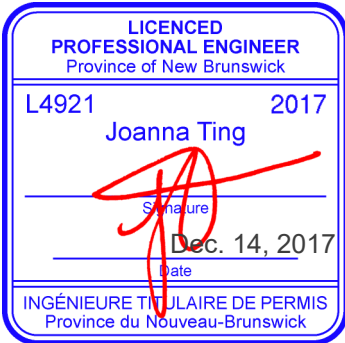
Dec. 14, 2017

PEG
Permit No. D0027



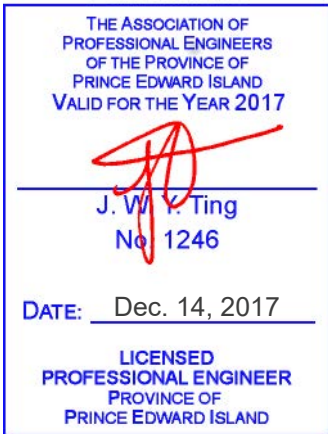
Dec 14, 2017

APEGNB
Certificate No. F0649



Dec. 14, 2017

APEPEI
Permit No. A195



DATE: Dec. 14, 2017

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PROVINCE OF
PRINCE EDWARD ISLAND

Valid through Dec. 31, 2019

LSSH Slope/Skew Hangers



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 to any pitch up to 45° up or down and skews up to 45° right or left.

Materials: See chart

Finish: G90 galvanizing; LSSH15-TZ: G-185 galvanizing

Options: See current catalog for options.

Codes: Factored resistances are derived from data submitted to various North American building code evaluators.

Installation:

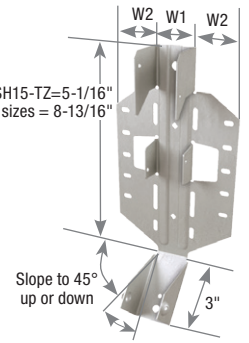
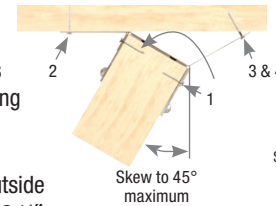
- Use all specified fasteners.

Steps:

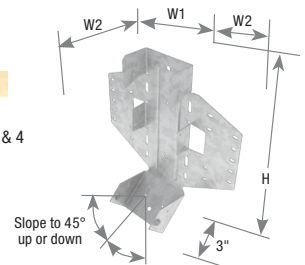
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LSSH210



LSSH35

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			W1	W2	Header		Rafter		Lbs		kN		Lbs		kN	
					Qty	Type	Qty	Type	Vertical 100%	Uplift ¹ 115%	Vertical 100%	Uplift ¹ 115%	Vertical 100%	Uplift ¹ 115%	Vertical 100%	Uplift ¹ 115%
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2-1/2	LSSH25	16	2-9/16	2-3/4	18	16d	12	10d x 1-1/2	4125	1895	18.35	8.43	3240	1490	14.41	6.63
2-5/8	LSSH26	16	2-11/16	2-5/8	18	16d	12	10d x 1-1/2	4125	1895	18.35	8.43	3240	1490	14.41	6.63
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MiTek

MiTek supplies quality products
to build Stronger Safer Structures

MiTek.ca

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December 2017 USP2320-LSSH