



MSHL/R Skewed Truss Hangers

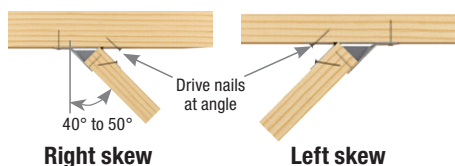
The MSHL/R is a versatile 45-degree skewed hanger with multiple installation options. It can be installed on a supporting girder truss as well as solid-sawn and structural composite lumber headers.

Materials: See chart

Finish: G90 galvanizing

Installation:

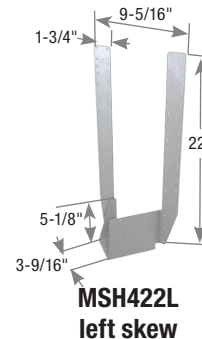
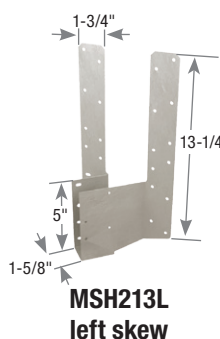
- Install the required number of fasteners according to the load table.
- Install fasteners into the carrying members at the locations described below based on the proper "Mounting Condition."
- Web stiffeners are required for I-Joist installations.
- Hanger is factory skewed at 45° left or right.



Typical MSH213R installation right skew



Typical MSH213L installation left skew



CONNECTION TO CARRYING MEMBER Mounting Condition

Face-Max

For MSH422L/R, bottom six (6) fastener holes (three on each side of bucket) must be filled. Install eight (8) additional fasteners (four (4) in each strap) where applicable. For MSH213L/R, bottom eight (8) fastener holes must be filled (four (4) in each strap). Install fourteen (14) additional fasteners, seven (7) in each strap. Min. 2x6 bottom chord required.

Typical MSH422R face-max installation

Top-Max

The straps must be field-bent over the header a minimum of 2" to allow four (4) top flange nail holes to be filled (two in each strap). The bottom six (6) fastener holes (three on each side of the bucket) must be filled. Min. 2x6 bottom chord required.

Typical MSH422R top-max installation

Top-Min

The straps must be field bent over the header a minimum of 2" to allow four (4) top flange nail holes to be filled (two in each strap). Also install the two (2) uppermost face nails (one on each strap) near the top of the header.

Typical MSH422R top-min installation

Combination Face-Max/Top-Max

Follow the Face-Max installation for one side of the connector and the Top-Max installation for the opposite side of the connector. The Face-Max factored resistances apply to this type of installation. Min. 2x6 bottom chord required.

Typical MSH422R combination installation

CONNECTION TO CARRIED MEMBER - All Mounting Conditions

Install six (6) 10d x 1-1/2" nails into 2x carried member, or six (6) 10d nails into 3-1/2" wide carried member.

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Valid through Dec. 31, 2019

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Joist Material & Width	MiTek Stock No.	Steel Gauge	Mounting Condition	Fastener Schedule ²					Unit	DF Factored Resistance		S-P-F Factored Resistance	
				Header			Joist			Vertical 100%	Uplift ¹ 115%	Vertical 100%	Uplift ¹ 115%
				Top Qty	Face Qty	Type	Qty	Type					
2x Lumber or Trusses	MSH213L/R	18	face-max	--	22	10d	6	10d x 1-1/2	Lbs	2795	1155	2790	1150
				kN	12.43	5.14	12.41	5.12					
			top-max	4	6	10d	6	10d x 1-1/2	Lbs	2700	1155	2600	1150
				kN	12.01	5.14	11.57	5.12					
			top-min	4	2	10d	6	10d x 1-1/2	Lbs	1925	--	1855	--
				kN	8.56	--	8.25	--					
			combination	2	14	10d	6	10d x 1-1/2	Lbs	2795	1155	2790	1150
				kN	12.43	5.14	12.41	5.12					
3-1/2" LVL or Floor Trusses	MSH422L/R	16	face-max	--	14	10d	6	10d	Lbs	2630	995	2065	780
				kN	11.70	4.43	9.19	3.47					
			top-max	4	6	10d	6	10d	Lbs	2605	995	2045	780
				kN	11.59	4.43	9.10	3.47					
			top-min	4	2	10d	6	10d	Lbs	2290	--	1800	--
				kN	10.19	--	8.01	--					
			combination	2	10	10d	6	10d	Lbs	2630	995	2065	780
				kN	11.70	4.43	9.19	3.47					

1) Factored uplift resistances have been increased 15% for short-term loads such as wind and earthquake; reduce for other load durations in accordance with the code.

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. Updated product information is designated in **blue font**.

PEO
Certificate No. 10889485



Dec. 20, 2017

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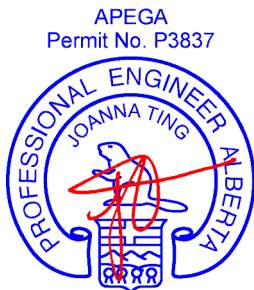
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APENS
Permit No. 15800 0



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PEG
Permit No. D0027



APEPEI
Permit No. A195



APEGNB
Certificate No. F0649



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