MSHA29L/R Adjustable Strap Skewed Hangers

The MSHA29L/R hanger offers the most flexible field solution for truss-to-truss connections accommodating a range of skews and challenging web-chord geometry often found in truss framing. Eliminating the need for special orders, the MSHA29L/R hanger provides economical solutions for 1-ply roof trusses and 1-ply floor trusses skewed between 22-1/2° to 75°. MSHA hangers can be installed in top-min,top-max, face-max or combination conditions as required.

Materials: 16 gauge

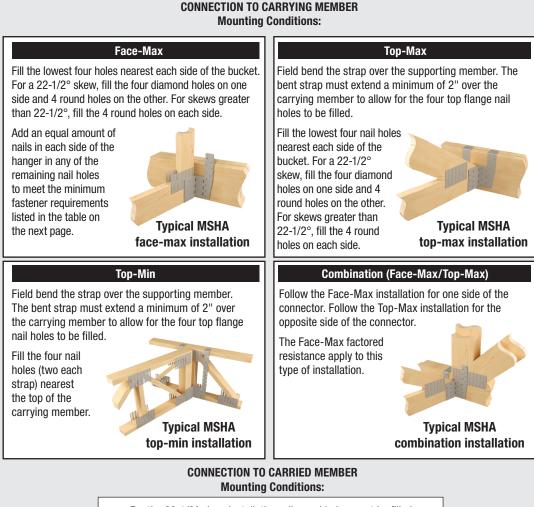
Finish: G90 galvanizing

Installation:

- Install the required number of fasteners according to the load table.
- Install fasteners into the carrying member at the locations described below based on the proper "Mounting Condition".
- Product is factory skewed 22-1/2° and may be field skewed from 22-1/2° to 75°. See Installation Sequence on next page for skews greater than 22-1/2°.
- Face-Max and Combination mounting conditions require a minimum chord or header height of 7-1/4". Top-Max and Top-Min mounting conditions require a minimum chord or header height of 5-1/2".

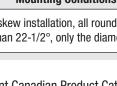


MSHA29L Left Shown



For the 22-1/2° skew installation, all round holes must be filled. For skews greater than $22-1/2^\circ$, only the diamond holes must be filled.

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





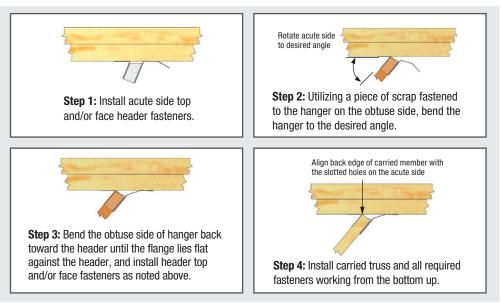
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Installation Sequence for Skews > 22-1/2°



					Fastener Schedule ⁴						DF		S-P-F	
		Min		Skew	Carrying Member		Carried Member			Factored Resistance		Factored Resistance		
Joist	MiTek	H _{eff} ²	Mounting	Angle	Тор	Face					Vertical	Uplift ¹	Vertical	Uplift ¹
Width	Stock No.	(in)	Condition ³	(degrees)	Qty	Qty	Туре	Qty	Туре	Unit	100%	115%	100%	115%
				22-1/2		12	10d	7	10d x 1-1/2	Lbs	2335	1625	2015	1400
	7-1/4			22 172		12	Tou		100 X 1 1/2	kN	10.39	7.23	8.96	6.23
2x		face-max	23 to 45		12	10d	4	10d x 1-1/2	Lbs	2025	930	1590	805	
			luoo max	201010			Tou	<u> </u>	TOUXT INE	kN	9.01	4.14	7.07	3.58
				46 to 75		12	10d	4	10d x 1-1/2	Lbs	2025	930	1590	805
										kN	9.01	4.14	7.07	3.58
			top-max	22-1/2	4	8	10d	7	10d x 1-1/2	Lbs	2870	1625	2260	1360
										kN	12.77	7.23	10.05	6.05
	MSHA29L/R			23 to 45	4	8	10d	4	10d x 1-1/2	Lbs	2435	930	1915	755
Trusses	WONA25E/T			2010 40	-		Tou	-	100 X 1 1/2	kN	10.83	4.14	8.52	3.36
				46 to 75	4	8	10d	4	10d x 1-1/2	Lbs	2190	930	1720	755
		5-1/2		40 10 7 0	-		Tou	-	100 X 1 1/2	kN	9.74	4.14	7.65	3.36
		0 1/2		22-1/2	4	4	10d	7	10d x 1-1/2	Lbs	1955		1685	Interference sistance sistance
			top-min	22-1/2 4	-	1	Tou		100 x 1-1/2	kN	8.70		7.50	
				23 to 45	4	4	10d	4	10d x 1-1/2	Lbs	1765		1385	
				2010 40	-	, T	100	-	100 x 1-1/2	kN	7.85		6.16	
				46 to 75	4	4	10d	4	10d x 1-1/2	Lbs	950		745	
				40 10 7 3	4	4	100	+	100 x 1-1/2	kN	4.23		3.31	

 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) H_{eff} is the minimum distance from the top of the hanger seat to the top of the carrying member.

3) For tabulated top-mount installation loads, the straps must be wrapped over the header a minimum of 2".

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.



MSHA29L Left Shown

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PEO Certificate No. 10889485

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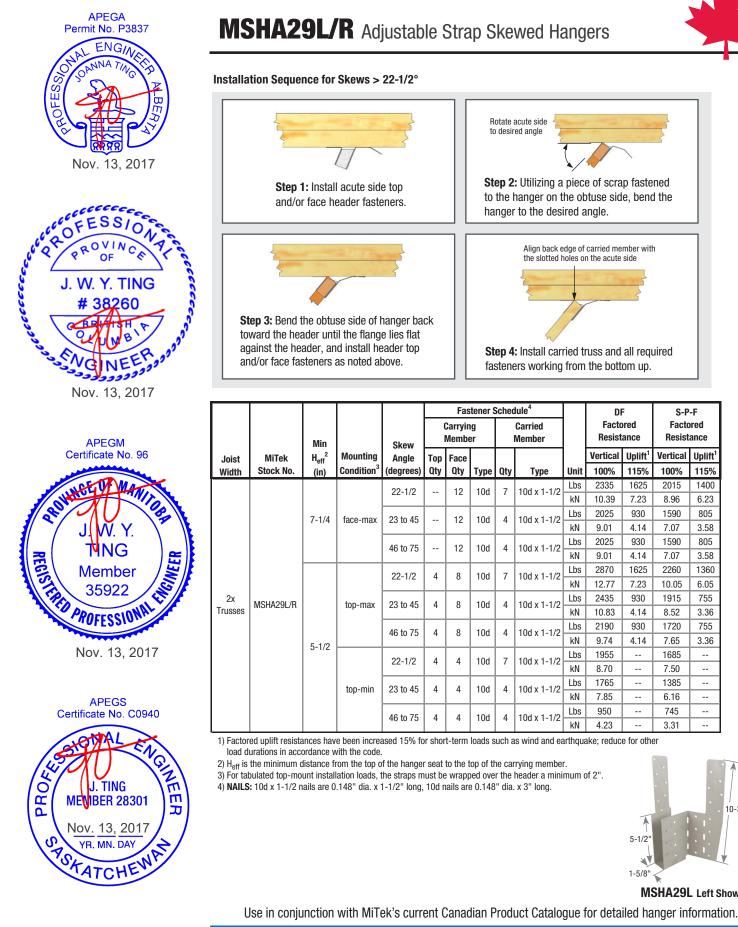
Nov. 13, 2017

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SUP PROFESSIONAL

ROL





10-3/4'

Valid through Dec. 31, 2018



					Fastener Schedule ⁴						DF		S-P-F	
		Min		Skew	Carrying Member		Carried Member			Factored Resistance		Factored Resistance		
Joist	MiTek	H _{eff} ²	Mounting	Angle	Тор	Face					Vertical	Uplift ¹	Vertical	Uplift ¹
Width	Stock No.	(in)	Condition ³	(degrees)	Qty	Qty	Туре	Qty	Туре	Unit	100%	115%	100%	115%
				22-1/2		12	10d	7	10d x 1-1/2	Lbs	2335	1625	2015	1400
							Tou			kN	10.39	7.23	8.96	6.23
		7-1/4	face-max	23 to 45		12	10d	4	10d x 1-1/2	Lbs	2025	930	1590	805
2x Trusses										kN	9.01	4.14	7.07	3.58
				46 to 75		12	10d	4	10d x 1-1/2	Lbs	2025	930	1590	Lored istance al Uplift ¹ istance al Uplift ¹ istance istance al Stance al <tr tr=""></tr>
										kN	9.01	4.14	7.07	3.58
				22-1/2	4	8	10d	7	10d x 1-1/2	Lbs	2870	1625	2260	
										kN	12.77	7.23	10.05	Uplift1 115% 1400 6.23 805 3.58 805 3.58 1360 6.05 755 3.36 755 3.36 755 3.36
	MSHA29L/R		top-max	23 to 45	4	8	10d	4	10d x 1-1/2	Lbs	2435	930	1915	
MOT NEOL IT		top max	201010		Ŭ	100			kN	10.83	4.14	8.52	3.36	
				46 to 75	4	8	10d	4	10d x 1-1/2	Lbs	2190	930	1720	755
		5-1/2		10 10 10		Ŭ	Tou			kΝ	9.74	4.14	7.65	3.36
		0 1/2		22-1/2	4	4	10d	7	10d x 1-1/2	Lbs	1955		1685	
			top-min	22-1/2 4	T	-	Tou	'	100 X 1-1/2	kN	8.70		7.50	
				23 to 45	4	4	10d	4	10d x 1-1/2	Lbs	1765		1385	
				2010 40	T	-	Tou	т	100 X 1 1/2	kN	7.85		1625 2015 1400 7.23 8.96 6.23 930 1590 805 4.14 7.07 3.58 930 1590 805 4.14 7.07 3.58 930 1590 805 4.14 7.07 3.58 1625 2260 1360 7.23 10.05 6.05 930 1915 755 4.14 7.67 3.36 930 1720 755 4.14 7.65 3.36 930 1720 755 4.14 7.65 3.36 930 1720 755 4.14 7.65 3.36 7.50 1385 745 745 -	
				46 to 75	4	4	10d	4	10d x 1-1/2	Lbs	950		745	
				40 10 7 5	+	+	100	+	100 x 1-1/2	kN	4.23		3.31	

1) Factored uplift resistances have been increased 15% for short-term loads such as wind and earthquake; reduce for other

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MSHA29L Left Shown

1-5/8"

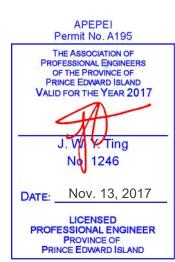






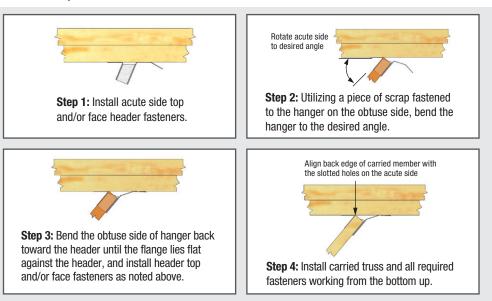
APEGNB Certificate No. F0649







Installation Sequence for Skews > 22-1/2°

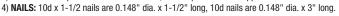


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		luoo max	201010						kN	9.01	4.14	7.07	3.58	
				46 to 75		12	10d	4	10d x 1-1/2	Lbs	2025	930	1590	805
				401073				<u> </u>		kN	9.01	4.14	7.07	3.58
				22-1/2	4	8	10d	7	10d x 1-1/2	Lbs	2870	1625	2260	1360
						Ŭ	100		100 X 1 1/2	kN	12.77	7.23	10.05	6.05
2x	MSHA29L/R		top-max	23 to 45	4	8	10d	4	10d x 1-1/2	Lbs	2435	930	1915	red ance Uplift ¹ 115% 6.23 805 3.58 805 3.58 1360
Trusses			top max	201010						kN	10.83	4.14	8.52	3.36
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		5-1/2								kN	9.74	4.14	7.65	3.36
				22-1/2	4	4	10d	7	10d x 1-1/2	Lbs	1955		1685	
						· ·				kN	8.70		7.50	
			top-min	23 to 45	4	4	10d	4	10d x 1-1/2	Lbs	1765		1385	
					<u> </u>			<u> </u>		kN	7.85		6.16	
				46 to 75	4	4	10d	4	10d x 1-1/2	Lbs	950		745	
				101070	Ť		.50	т	104 X 1 1/2	kN	4.23		3.31	

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MSHA29L Left Shown

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