MiTek[®]

Adjustable Strap Skewed Hangers MSHA series

MiTek's MSHA Series 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 MSHA hanger provides economical solutions for 1-ply or 2-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 mounting conditions as required.

Features:

- Field adjustable straps that can be used straight or bent to accommodate web-chord geometry.
- A bend line makes field adjustments and installation quick and easy, especially for high skews.
- Eliminates the need for ordering special hangers.
- All models can be installed on 2x6 and larger carrying members.

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".
- Hanger is factory skewed 22-1/2° and may be field skewed from 22-1/2° to 75°. See installation sequence on back 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".

CONNECTION TO CARRYING MEMBER Mounting Conditions:										
Face-Max Fill the lowest four holes nearest each side of the bucket. For a 22-1/2° skew, fill the four diamond holes on one side and 4 round holes on the other. For skews greater than 22-1/2°, fill the 4 round holes on each side. Add an equal amount of nails in each side of the hanger in any of the remaining nail holes to meet the minimum fastener	Top-MaxField bend the strap over the supporting member. The bent strap must extend a minimum of 2" over the carrying member to allow for the four top flange nail holes to be filled.Fill the lowest four nail holes nearest each side of the bucket.For a 22-1/2° skew, fill the four diamond holes on one side and 4 round holes on the other. For	Top-MinField bend the strap over the supporting member. The bent strap must extend a minimum of 2" over the carrying member to allow for the four top flange nail holes to be filled.Fill the four nail holes (two each strap) nearest the top of the carrying member.	Combination Face-Max/Top-Max Follow the Face-Max installation for one side of the connector. Follow the Top-Max installation for the opposite side of the connector. The Face-Max allowable loads apply to this type of installation.							
requirements listed in the table.	skews greater than 22-1/2°, fill the 4 round holes on each side. Typical MSHA top-max installation	Typical MSHA top-min installation	Typical MSHA combination installation							
CONNECTION TO CARRIED MEMBER Mounting Conditions:										

For the 22-1/2° skew installation, all round holes must be filled. For skews greater than 22-1/2°, all holes must be filled in bucket including diamond holes.



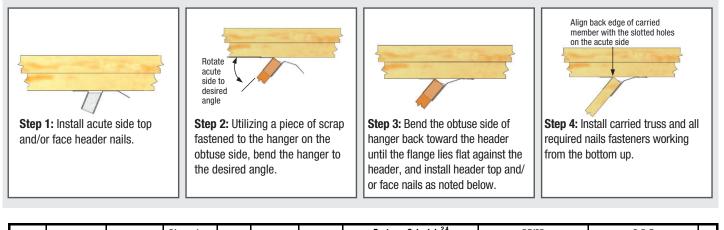


MSHA29R-2 right shown





Installation Sequence for Skews > 221/2°:



			Dime	nsions				Fastener Schedule ^{2,4}					/SP		S-P-F						
			(i	n)				Carrying Carried			Allowable Loads (Lbs.)				Allowable Loads (Lbs.)						
Joist					Min		Skew		Member Member		Member	Floor Roof		Uplift ¹	Floor	r Roof Upli		Uplift ¹			
Material	MiTek				H _{eff} ²	Mounting	Angle	Тор	Face												Ctn
& Width	Stock No.	Ref. No.	W	Н	(in)	Condition ⁴	(degrees)	Qty	Qty	Туре		Туре	100%	115%		160%	_	115%	125%	160%	Qty
			1-5/8	10-3/4	7-1/4	face-max	22-1/2		12	10d	7	10d x 1-1/2	1500	1615	1615	975	1250	1275	1275	770	
2x Trusses MSHA29L/R							23 to 45		12	10d	4	10d x 1-1/2	1485	1485	1485	560	1250	1350	1350	435	
							46 to 75		12	10d	4	10d x 1-1/2	1500	1615	1615	720	1250	1315	1315	560	
						top-max	22-1/2	4	8	10d	7	10d x 1-1/2	1985	1985	1985	975	1510	1510	1510	745	4
	MSHA29L/R	THASR/L29			5-1/2		23 to 45	4	8	10d	4	10d x 1-1/2	1705	1705	1705	560	1255	1255	1255	415	
							46 to 75	4	8	10d	4	10d x 1-1/2	1605	1605	1605	720	1605	1605	1605	560	
						top-min	22-1/2	4	4	10d	7	10d x 1-1/2	1350	1350	1350		1045	1045	1045		
							23 to 45	4	4	10d	4	10d x 1-1/2	1335	1335	1335		1060	1060	1060		
							46 to 75	4	4	10d	4	10d x 1-1/2	695	695	695		695	695	695		
	MSHA29L/R-2	THASR/L29-2	3-1/8	10-3/4	7-1/4	face-max	22-1/2		12	10d	7	10d	1500	1615	1615	975	1215	1215	1215	735	
							23 to 45		12	10d	4	10d	1485	1485	1485	560	1210	1260	1260	405	
							46 to 75		12	10d	4	10d	1500	1615	1615	720	1250	1300	1300	555	
					5-1/2	top-max	22-1/2	4	8	10d	7	10d	1985	1985	1985	975	1495	1495	1495	735	
2-2x Trusses MSHA29L/R-							23 to 45	4	8	10d	4	10d	1705	1705	1705	560	1275	1275	1275	420	25
							46 to 75	4	8	10d	4	10d	1605	1605	1605	720	1565	1565	1565	535	
						top-min	22-1/2	4	4	10d	7	10d	1350	1350	1350		1040	1040	1040		
							23 to 45	4	4	10d	4	10d	1335	1335	1335		1060	1060	1060		
							46 to 75	4	4	10d	4	10d	695	695	695		695	695	695		
	MSHA422L/R	THASR/L422	3-5/8	22	7-1/4	face-max	22-1/2		12	10d	7	10d	1500	1590	1590	960	1250	1250	1250	755	1
							23 to 45		12	10d	4	10d	1485	1485	1485	550	1250	1335	1335	430	1
4x Trusses MSI							46 to 75		12	10d	4	10d	1500	1615	1615	705	1250	1300	1300	555	1
					5-1/2	top-max	22-1/2	4	8	10d	7	10d	1955	1955	1955	960	1490	1490	1490	735	
							23 to 45	4	8	10d	4	10d	1680	1680	1680	550	1270	1270	1270	420	1
							46 to 75	4	8	10d	4	10d	1605	1605	1605	705	1565	1565	1565	535	1
						top-min	22-1/2	4	4	10d	7	10d	1330	1330	1330		1040	1040	1040		1
							23 to 45	4	4	10d	4	10d	1335	1335	1335		1060	1060	1060		1
							46 to 75	4	4	10d	4	10d	695	695	695		695	695	695		1

1) Uplift loads have been increased 60% for wind or seismic loads; no further increase shall be permitted.

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.

Customer Service & Technical Assistance

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