MSSH Severely Skewed Hangers

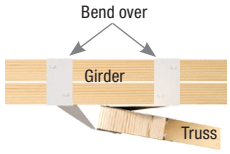
MiTek's MSSH217 hanger accommodates a skew range of 60° to 85° (5° minimum to 30° maximum off the girder) without the need for a more expensive custom design hanger. Face nail to webs or bend the flange strap over the chord. Available in left (L) or right (R) configurations.

Materials: 18 gauge
Finish: G90 galvanizing

Installation:

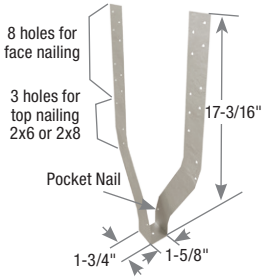
- Use all specified fasteners.
- The 3 lower holes on each strap are for top nailing when the strap is bent over the truss chord. These holes are not for face nailing.
- One or both straps may be bent over the bottom chord of the girder with top and backside nailing.
- Select the correct (right or left) hanger so that the strap on the outside of the angle will pass the end of the truss. When facing the hanger, the strap in the rear turns in the direction of the skew. The front strap turns to pass behind the end of the supported member.
- Attach the hanger at the end of the truss with a single 10d (0.148") x 1-1⁄2" nail into the side flange or bottom.
- Place the truss in position against the girder. Push the outside strap past the end of the truss to the girder web and face nail through the top 8 holes with 10d (0.148") x 1-1⁄2" nails into the girder.
- The strap inside the angle can be formed over diagonal webs (if design allows) or bend over the girder chord. Use two nails into the top edge and fill all nail holes on the front/back side of the girder.
- If the outside strap does not contact a web, bend the strap tightly over the girder chord. Use two nails into the top and fill all nail holes on the back side of the girder.
- For uplift resistance, other means of attachment are required. If both the truss and girder have vertical webs, attach a scab to pack out the girder web nearly flush with the web of the carried truss and use a field adjustable MP framing angle across the two. A top chord connection for uplift requires a flat LSTA strap tie wrapped under the girder and over the truss chord.

MSSH217L
Left shown attached to web and top of chord

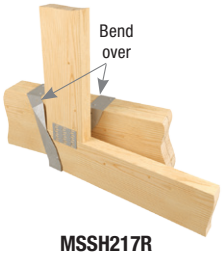


Top view right shown

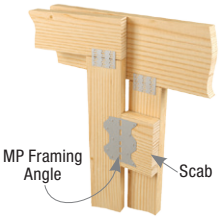
MSSH217R
Right shown attached to webs



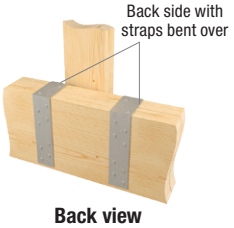
MSSH217R
Right shown



MSSH217R
Right shown bent over bottom chord



Additional strapping for High Uplift



Back view shown

Additional strapping for High Uplift

MiTek Stock No.	Steel Gauge	Mounting Condition	Fastener Schedule[2,3,5] Supporting Member Top (per strap) Qty	Type	Face/Backside (per strap) Qty	Type	Supported Member Qty	Type	Girder Plies	DF Factored Resistance[1] Vertical 100% Lbs	kN	S-P-F Factored Resistance[1] Vertical 100% Lbs	kN
MSSH217L/R	18	face-max	--	--	8	10d x 1-1/2	1	10d x 1-1/2	1 or 2	2115	9.41	1720	7.65
		top-min	2	10d	3	10d x 1-1/2	1	10d x 1-1/2		2115	9.41	1720	7.65

1) No uplift value with this hanger. Use other hardware higher on carried member to counteract uplift.
2) One or both straps may be bent over chord member with top and backside nailing.
3) Maintain minimum 3/4" edge distance when installing nails.
4) The supported member shall be supported by blocking or other means to prevent rotation.
5) **Nails:** 10d x 1-1/2 nails are 0.148" dia. x 1-1/2" long, 10d nails are 0.148" x 3" long.
Note: The lower holes on each strap are for top nailing when strap is bent. These holes are not for face nailing.

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

PEO
Certificate No. 10889485

LICENSED PROFESSIONAL ENGINEER
J.W.Y. TING
90275213
PROVINCE OF ONTARIO

Dec. 11, 2017

Valid through Dec. 31, 2019

MiTek®

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

December 2017 USP2320-MSSH

MSSH Severely Skewed Hangers

APEGA
Permit No. P3837

PROFESSIONAL ENGINEER ALBERTA
JOANNA TING

Dec. 11, 2017

PROFESSIONAL ENGINEER
PROVINCE OF BRITISH COLUMBIA
J. W. Y. TING
38260

Dec. 11, 2017

APEGM
Certificate No. 96

PROVINCE OF MANITOBA
J. W. Y. TING
Member
35922
REGISTERED PROFESSIONAL ENGINEER

Dec. 11, 2017

APEGS
Certificate No. C0940

PROFESSIONAL ENGINEER
J. TING
MEMBER 28301
Dec. 11, 2017
YR. MN. DAY
SASKATCHEWAN

Valid through Dec. 31, 2019

MiTek's MSSH217 hanger accommodates a skew range of 60° to 85° (5° minimum to 30° maximum off the girder) without the need for a more expensive custom design hanger. Face nail to webs or bend the flange strap over the chord. Available in left (L) or right (R) configurations.

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Finish: G90 galvanizing

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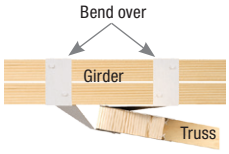
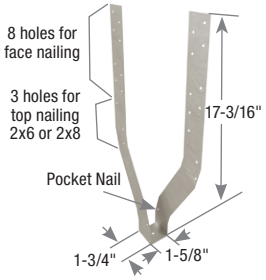
MSSH217L
Left shown attached to web and top of chord

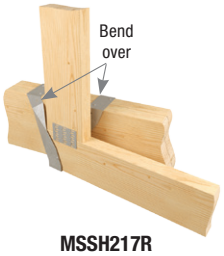


Top view right shown

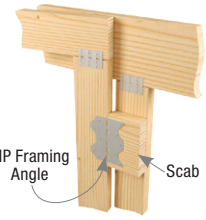
MSSH217R
Right shown attached to webs



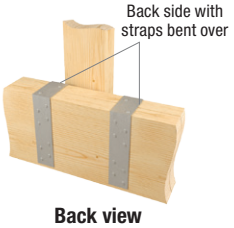
MSSH217R
Right shown



MSSH217R
Right shown bent over bottom chord



Additional strapping for High Uplift



Back view shown

Additional strapping for High Uplift

MiTek Stock No.	Steel Gauge	Mounting Condition	Fastener Schedule[2,3,5] Supporting Member Top (per strap) Qty	Top (per strap) Type	Face/Backside (per strap) Qty	Face/Backside (per strap) Type	Supported Member Qty	Supported Member Type	Girder Plies	DF Factored Resistance[1] Vertical 100% Lbs	DF Factored Resistance[1] Vertical 100% kN	S-P-F Factored Resistance[1] Vertical 100% Lbs	S-P-F Factored Resistance[1] Vertical 100% kN
MSSH217L/R	18	face-max	--	--	8	10d x 1-1/2	1	10d x 1-1/2	1 or 2	2115	9.41	1720	7.65
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MiTek®

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

December 2017 USP2320-MSSH

APENS
Permit No. 15800 0

REGISTERED PROFESSIONAL ENGINEER
PROVINCE OF NOVA SCOTIA
DATE Dec. 11, 2017
W. Y. Ting
9823

PEG
Permit No. D0027

REGISTERED PROFESSIONAL ENGINEER
PEG Newfoundland and Labrador
PROFESSIONAL ENGINEERS AND GEOSCIENTISTS
JOANNA W.Y. TING
SIGNATURE
Dec. 11, 2017
DATE
NEWFOUNDLAND & LABRADOR

APEGNB
Certificate No. F0649

LICENCED
PROFESSIONAL ENGINEER
Province of New Brunswick
L4921 2017
Joanna Ting
Signature
Dec. 11, 2017
Date
INGÉNIEURE TITULAIRE DE PERMIS
Province du Nouveau-Brunswick

APEPEI
Permit No. A195

THE ASSOCIATION OF
PROFESSIONAL ENGINEERS
OF THE PROVINCE OF
PRINCE EDWARD ISLAND
VALID FOR THE YEAR 2017
J. W. Y. Ting
No. 1246
DATE: Dec. 11, 2017
LICENSED
PROFESSIONAL ENGINEER
PROVINCE OF
PRINCE EDWARD ISLAND

Valid through Dec. 31, 2019

MSSH Severely Skewed Hangers

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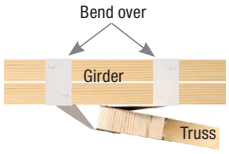
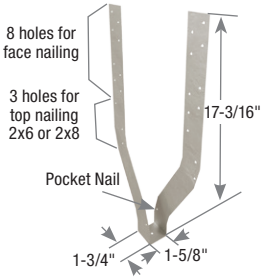
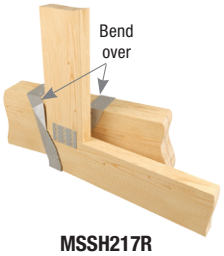


Top view right shown

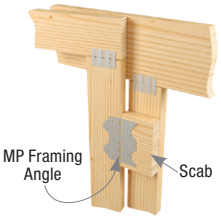
MSSH217R
Right shown attached to webs



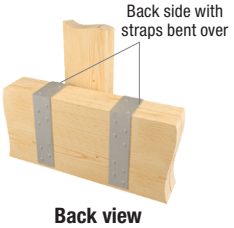
MSSH217R
Right shown



MSSH217R
Right shown bent over bottom chord



Additional strapping for High Uplift



Back view shown

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