MiTek®

PLATED TRUSS INSTALLATION GUIDE

MII.COM

800-328-5934

PLATED TRUSS INSTALLATION GUIDE

GENERAL NOTES

This installation guide lists the most common MiTek products used with plated truss members. Refer to MiTek's current Product Catalog for detailed hanger information and additional installation options. Consult the plated truss fabricator for information concerning the use of their products. MiTek does not express, and will not accept, responsibility for any wood component including, but not limited to, bearing blocks and backing blocks.

Use proper safety equipment during connector installations. Always wear gloves when handling connectors.

The type and quantity of fasteners used to install MiTek products is critical to connector performance. To achieve the allowable loads, install with the fasteners specified.

Drill bolt holes a minimum of 1/32" and a maximum of 1/16" larger than the diameter of the bolt to be installed (per the 2018 NDS®, Section 11.1.3).

Washers should always be used under the head of a bolt or nut of a bolt when not in contact with the connector, unless noted otherwise.

It is permissible to use nail guns to install connectors as long as the specified nails are installed through pre-punched nail holes and all specified nail holes are filled. MiTek recommends the use of nail guns featuring hole-locating mechanisms. Please note that many nail guns use fasteners smaller than common nail size and load reductions will result. Contact MiTek Engineering. Caution: Always follow nail gun manufacturer's safety guidelines.

Truss members installed in hangers shall bear fully on the connector seat and shall be cut to fit against the header with a gap no greater than 1/8" between the truss end and header face.

Multiple-ply members must be fastened securely together to act as one unit.

NAILS

Finish[1]	Size	MiTek Stock No.[2]	Ref. No.	Dimensions (in)	
				Nail Diameter	Length
HDG	8d x 1-1/2	NA11	N8	0.131	1-1/2
	10d x 1-1/2	NA9D	N10	0.148	1-1/2
	10d Common	N10C	10DHDG	0.148	3
	16d x 2-1/2	NA16D	N16, N16EG	0.162	2-1/2
	16d Common	N16C	16DHDG	0.162	3-1/2
Bright	8d Common	8d Common	--	0.131	2-1/2
	10d Common	10d Common	--	0.148	3
	16d Sinker	16d Sinker	--	0.148	3-1/4
	16d Common	16d Common	--	0.162	3-1/2

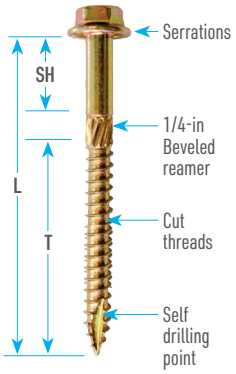
1) HDG = Hot-Dip Galvanized; Bright = No Finish.
2) Bright finish common and sinker nails are listed in table for reference only. MiTek does not stock these type nails.

HEX HEAD INTERIOR STRUCTURAL WOOD SCREWS

Codes: IBC, FL, LABC

Size (in)	MiTek Stock No.	Ref. No.	Dimensions (in)			Finish[1]
			L	SH	T	
1/4 x 3	WS3	--	3	3/4	2	Zinc
1/4 x 4-1/2	WS45	--	4-1/2	1-1/4	3	Zinc
1/4 x 6	WS6	--	6	1-3/4	4	Zinc

1) Zinc = Yellow Zinc Dichromate.



PLATED TRUSS INSTALLATION GUIDE

NAILS

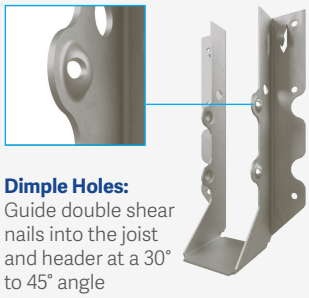
Round Holes:
Always fill all (normal-size) round nail holes, unless otherwise noted.

Diamond Holes:
Optional nailing for maximum listed capacity or for temporary hanger fastening during installation.

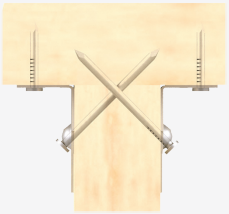
Large Round Holes:
For concrete/masonry installation; no need to be filled when connected to wood. Large round holes may be used for manufacturing which do not require a fastener. Verify fastener schedule in MiTek's product catalog.

Obround Holes:
For ease of nailing at a tight location; always fill.

When there are **MIN** and **MAX** values: **MIN:** fill all round nail holes
MAX: fill all round and diamond holes



Dimple Holes:
Guide double shear nails into the joist and header at a 30° to 45° angle



Use specified standard length common nails. 16d common and 10d common nails are 3-1/2" and 3" long respectively.

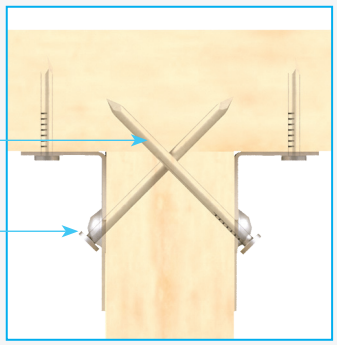
Common Nailing Errors

⚠ WRONG ANGLE
When a nail is driven into the bottom flange of the wood I-Joist parallel to the glue lines, separation of veneers can occur which substantially reduces the design loads of the connection.

⚠ NAIL TOO LONG
When using nails longer than MiTek's recommended nails, bottom flange splitting may occur. Also, this can raise the wood I-Joist off the seat, resulting in uneven surfaces and squeaky floors along with reduced allowable loads.

Double shear nail design features fewer nails and faster installation

Uses standard length common nails



PLATED TRUSS INSTALLATION GUIDE

TR / HTC TRUSS CLIPS

Codes for HTC4: IBC, FL, LABC

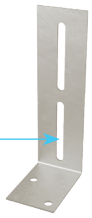
MiTek Stock No.	Ref. No.	Fastener Schedule[1]			
		Truss		Plate	
		Qty	Type	Qty	Type
TR1	STC	1	8d	2	8d
TR1T	STCT	1	8d	2	8d
TR2	DTC	2	8d	4	8d
HTC4	HTC4	3	10d x 1-1/2	6	10d x 1-1/2

1) **NAILS:** 8d nails are 0.131" dia. x 2-1/2" long, 10d x 1-1/2 nails are 0.148" dia. x 1-1/2" long.

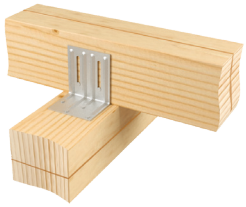
HTC4

TR2

1-1/2" slots allow for truss float. Do Not fully seat nails into truss when installing. Locate nails into the center of slots.



TR1T



Typical TR2 installation

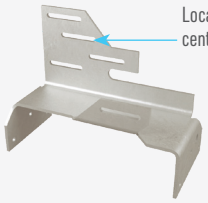
STC SCISSOR TRUSS CLIPS

Codes: IBC, FL, LABC

Wall Width	MiTek Stock No.	Ref. No.	Fastener Schedule[1]			
			Truss		Plate	
			Qty	Type	Qty	Type
2 x 4	STC24	TC24	5	10d x 1-1/2	6	10d x 1-1/2
2 x 6	STC26	TC26	5	10d x 1-1/2	6	10d x 1-1/2
2 x 8	STC28	TC28	5	10d x 1-1/2	6	10d x 1-1/2

1) **NAILS:** 10d x 1-1/2 nails are 0.148" dia. x 1-1/2" long.

1-1/4" slots allow for truss float. Do Not fully seat nails into truss when installing. Locate nails into the center of slots.



STC

Typical STC installation

SBP SUPPLEMENTARY BEARING PLATES

Codes: IBC, FL, LABC

Wall Width	MiTek Stock No.	Ref. No.	Joist Thickness	Fastener Schedule[1,3]				
				Plate			Truss	
				Top Qty	Sides Qty	Type	Qty	Type
2 x 4	SBP4	TBE4	2-7/8-in or less	4	8	10d	20	10d x 1-1/2
			3-in or more					10d
2 x 6	SBP6	TBE6	2-7/8-in or less	4	8	10d	28	10d x 1-1/2
			3-in or more					10d

1) Fastener Schedule is for a pair of SBP devices.
2) Multiple ply trusses shall be fastened together to act as a single unit.
3) **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.

SBP

Typical SBP installation

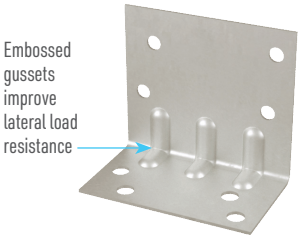
PLATED TRUSS INSTALLATION GUIDE

HGA HURRICANE GUSSET ANGLES

Codes: IBC, FL, LABC

MiTek Stock No.	Ref. No.	Fastener Schedule[1]			
		Rafter/Truss		Plate	
		Qty	Type	Qty	Type
HGA10KT	HGA10KT	4	WS15	4	WS3

1) MiTek's WS15 Structural Wood Screws are 1/4" dia. x 1-1/2" long and WS3 Structural Wood Screws are 1/4" dia. x 3" long.



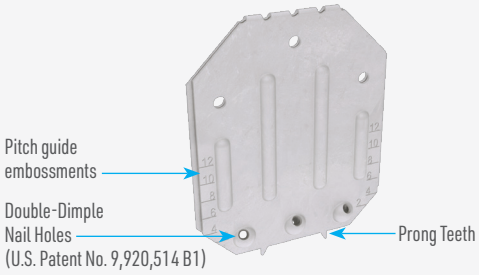
HGA10

Typical HGA10 installation

VTT VALLEY TRUSS TIE

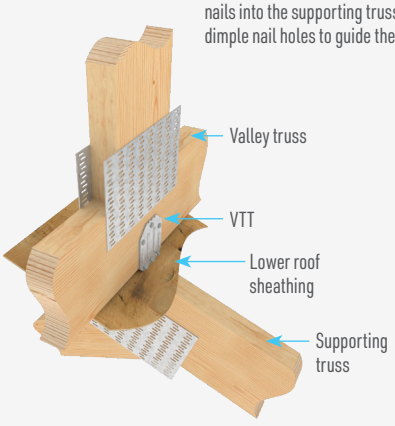
MiTek Stock No.	Ref. No.	Fastener Schedule[1]				
		Supporting Framing		Valley Truss		Supporting Roof Pitch
		Qty	Type	Qty	Type	
VTT	VTCR	3	10d	3	10d x 1-1/2	< 4/12
						4/12 to < 8/12
						8/12 to 12/12

1) **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.

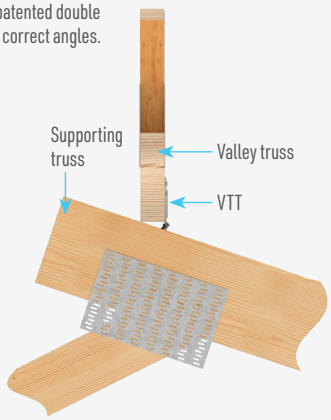


VTT Front View

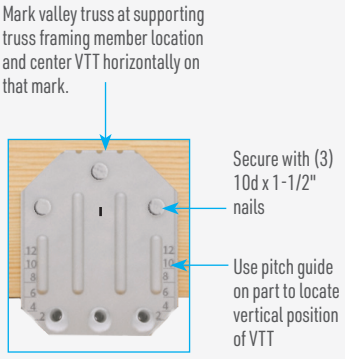
Center VTT over top chord of supporting truss, set prong teeth into sheathing, then install 10d x 1-1/2" nails in to the valley truss. Next, install full length (3") 10d common nails into the supporting truss using the patented double dimple nail holes to guide the nails at the correct angles.



Typical VTT installation



Typical VTT side view installation



Alternate Installation for Ground / Pre-Placement installation

PLATED TRUSS INSTALLATION GUIDE

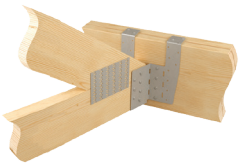
MSHA ADJUSTABLE STRAP SKEW HANGERS

Joist Material & Width	MiTek Stock No.	Ref. No.	Mounting Condition	Skew Angle (degrees)	Fastener Schedule[1]				
					Supporting Member			Supported Member	
					Top Qty	Face Qty	Type	Qty	Type
2x Trusses	MSHA29L/R	THASR/L29	top-max	22-1/2	4	8	10d	7	10d x 1-1/2
				23 to 45	4	8	10d	4	10d x 1-1/2
				46 to 75	4	8	10d	4	10d x 1-1/2
2-2x Trusses	MSHA29L/R-2	THASR/L29-2	top-max	22-1/2	4	8	10d	7	10d
				23 to 45	4	8	10d	4	10d
				46 to 75	4	8	10d	4	10d
4x Trusses	MSHA422L/R	THASR/L422	top-max	22-1/2	4	8	10d	7	10d
				23 to 45	4	8	10d	4	10d
				46 to 75	4	8	10d	4	10d

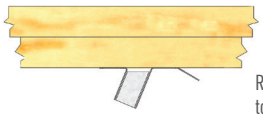
1) **NAILS:** 10d x 1-1/2 nails are 0.148" dia. x 1-1/2" long, 10d nails are 0.148" dia. x 3" long.

MSHA29L left shown

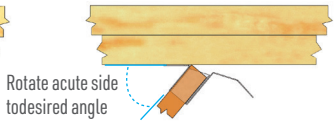
Typical MSHA29L top-max installation



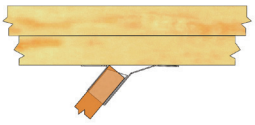
Installation Sequence for Skews > 22½°:



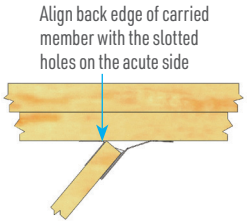
Step 1: Install acute side top and/or face header nails.



Step 2: Utilizing a piece of scrap fastened to the hanger on the obtuse side, bend the hanger to the desired angle.



Step 3: Bend the obtuse side of hanger back toward the header until the flange lies flat against the header, and install header top and/or face nails as noted below.



Step 4: Install carried truss and all required nails fasteners working from the bottom up.

SKH / SKHH SKEWED 45° HANGERS

Codes: IBC, FL, LABC

Supported Member	MiTek Stock No.	Ref. No.	Fastener Schedule[1]			
			Supporting Member		Supported Member	
			Qty	Type	Qty	Type
1 Ply	SKH24L/R	SUR/L24	4	16d	4	10d x 1-1/2
	SKH26L/R	SUR/L26	6	16d	6	10d x 1-1/2
	SKH28L/R	--	10	16d	8	10d x 1-1/2
	SKH210L/R	SUR/L210	14	16d	10	10d x 1-1/2
2 Ply	SKHH26L/R-2	--	18	16d	12	10d x 1-1/2
	SKHH28L/R-2	--	26	16d	16	10d x 1-1/2
	SKHH210L/R-2	--	34	16d	20	10d x 1-1/2

1) **NAILS:** 10d x 1-1/2 nails are 0.148" dia. x 1-1/2" long, 16d nails are 0.162" dia. x 3-1/2" long.

SKHH210L-2 left shown (SKH similar)

Right skew **Left skew**

PLATED TRUSS INSTALLATION GUIDE

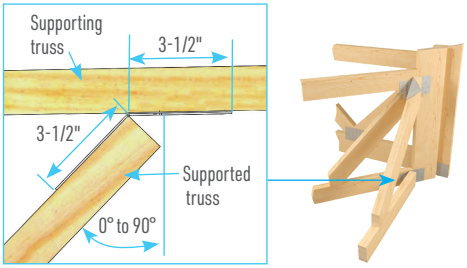
SNP SKEWED NAIL PLATE

Codes: IBC, FL, LABC

MiTek Stock No.	Ref. No.	Fastener Schedule[1]			
		Supporting Member		Supported Member	
		Qty	Type	Qty	Type
SNP3	TJC37	6	8d x 1-1/2	6	8d x 1-1/2

1) **NAILS:** 8d x 1-1/2 nails are 0.131" dia. by 1-1/2" long.

SNP3



Typical SNP3 installation

MSSH SEVERE SKEW HANGERS

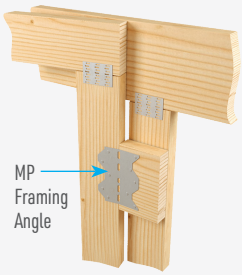
MiTek Stock No.	Ref. No.	Fastener Schedule[1,2,4]						Girder Truss
		Mounting Condition	Supporting Member				Supported Member[3]	
			Top		Face/ Backside			
			Qty	Type	Qty	Type	Qty	Type	
MSSH217L/R	--	face-max	--	--	16	10d	1	10d x 1-1/2	1 Ply
		top-min	4	10d	6	10d			

1) One or both straps may be bent over bottom chord of girder with top or backside nailing.
2) Maintain minimum 3/4" edge distance when installing nails.
3) The supported member shall be supported by blocking or other means to prevent rotation.
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.
Note: The 3 lower holes on each strap are for top nailing when strap is bent.
These holes are not for face nailing.

MSSH217R right shown

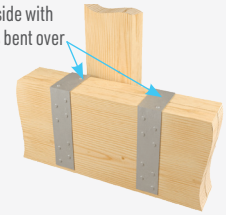
MSSH217L Left shown attached to web and top of chord

MSSH217R Right shown attached to webs

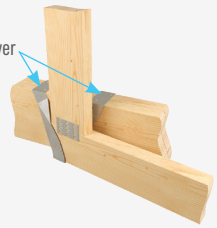


Additional strapping for high uplift

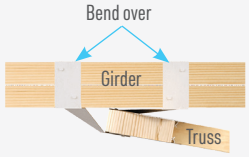
Additional strapping for high uplift



Back view shown



MSSH217R shown bent over bottom chord



Top view right shown

PLATED TRUSS INSTALLATION GUIDE

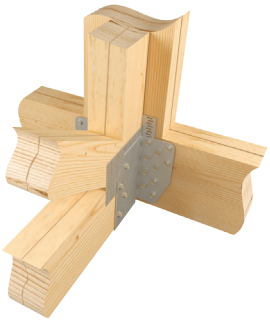
THDHQ GIRDER TRUSS HANGERS

Codes: IBC, FL, LABC

Supported Member	MiTek Stock No.	Ref. No.	Fastener Schedule[1]			
			Supporting Member[3]		Supported Member	
			Qty	Type	Qty[2]	Type
2 Ply	THDHQ26-2	HGUQ26-2-SDS3	12	WS3	4	WS3
	THDHQ28-2	HGUQ28-2-SDS3	20	WS3	8	WS3
	THDHQ210-2	HGUQ210-2-SDS3	28	WS3	8	WS3
3 Ply	THDHQ26-3	HGUQ26-3-SDS4.5	12	WS45	4	WS45
	THDHQ28-3	HGUQ28-3-SDS4.5	20	WS45	8	WS45
	THDHQ210-3	HGUQ210-3-SDS4.5	28	WS45	8	WS45
4 Ply	THDHQ26-4	HGUQ26-4-SDS6	12	WS6	4	WS6
	THDHQ28-4	HGUQ28-4-SDS6	20	WS6	8	WS6
	THDHQ210-4	HGUQ210-4-SDS6	28	WS6	8	WS6

1) WS3 is 1/4" dia. x 3" long structural wood screw, WS45 is 1/4" dia. x 4-1/2"long structural wood screw, WS6 is 1/4" dia. x 6" long structural wood screw and are included with THDHQ hangers.
2) Structural wood screws specified for supported member must ALL be installed into the supported member while maintaining a minimum 5/8" edge distancewhere truss connector plates are not present.
3) When fastening to a multi-ply supporting truss: use WS3 for 2-ply, WS45 for 3-ply and WS6 for 4-ply.

THDHQ28-2



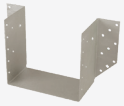
Typical THDHQ28-2 installation

HHC / HJC / HJHC / HTHJ HIP/JACK CONNECTORS

Codes for HJC series: IBC, FL, LABC

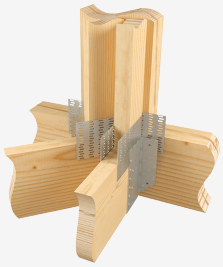
MiTek Stock No.	Ref. No.	Fastener Schedule[1]				
		Supporting Member[3]		Supported Member		
				per Hip	per Jack	
		Qty	Type	Qty	Qty	Type
HJC26	LTHJA26, THJA26, THJU26	16	16d	5	7	10d
HJC28	--	20	16d	6	8	10d
HHC26	LTHJA26, THJA26	20	16d	5	--	10d
HHC28	--	24	16d	6	--	10d
HJHC26	--	20	16d	5	2	10d
HJHC28	--	24	16d	6	2	10d
HTHJ26-18	--	16	16d	7	5	16d

1) **NAILS:** 10d nails are 0.148" dia. x 3" long, 16d nails are 0.162" dia. x 3-1/2" long. 16d sinkers are 0.148" dia. x 3-1/4" long and may be used where 10d commons are specified.

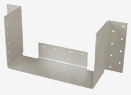


HJC

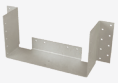
HTHJ



Typical HJC/HTHJ installation

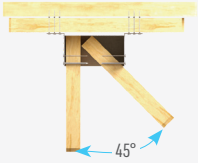


HHC

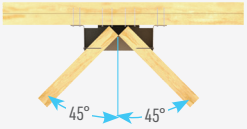


HJHC

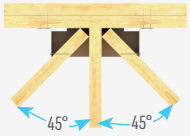
Typical HJC installation top view



Typical HTHJ installation top view



Typical HHC installation top view



Typical HJHC installation top view

PLATED TRUSS INSTALLATION GUIDE

JUS / MUS / HUS / THD / THDH FACE MOUNT HANGERS

Codes: IBC, FL, LABC

Supported Member	MiTek Stock No.	Ref. No.	Fastener Schedule[1]			
			Supporting Member		Supported Member	
			Qty	Type	Qty	Type
1 Ply	JUS24	LUS24	4	10d	2	10d
	JUS26	LUS26	4	10d	4	10d
	JUS28	LUS28	6	10d	4	10d
	JUS210	LUS210	8	10d	4	10d
	MUS26	MUS26	6	10d	6	10d
	MUS28	MUS28	8	10d	8	10d
	HUS26	HUS26	14	16d	6	16d
	HUS28	HUS28	22	16d	8	16d
	HUS210	HUS210	30	16d	10	16d
	THDH26	HGUS26	20	16d	8	16d
	THDH28	HGUS28	36	16d	12	16d
2 Ply	THD26-2	HHUS26-2, HTU26-2	18	16d	12	10d
	THD28-2	HHUS28-2, HTU28-2	28	16d	16	10d
	THD210-2	HHUS210-2, HTU210-2	38	16d	20	10d
	THDH26-2	HGUS26-2	20	16d	8	16d
	THDH28-2	HGUS28-2	36	16d	10	16d
	THDH210-2	HGUS210-2	46	16d	12	16d
3 Ply	THD210-3	HHUS210-3	38	16d	20	10d
	THDH26-3	HGUS26-3	20	16d	8	16d
	THDH28-3	HGUS28-3	36	16d	12	16d
	THDH210-3	HGUS210-3	46	16d	16	16d
4 Ply	THD210-4	HHUS210-4	38	16d	20	10d
	THDH26-4	HGUS26-4	20	16d	8	16d
	THDH28-4	HGUS28-4	36	16d	12	16d
	THDH6710	HGUS210-4	46	16d	12	16d
	THDH6712	HGUS212-4	56	16d	14	16d
	THDH6714	HGUS214-4	66	16d	16	16d
4X	HUS410	HUS410	8	16d	8	16d
	THD410	HHUS410	38	16d	20	10d

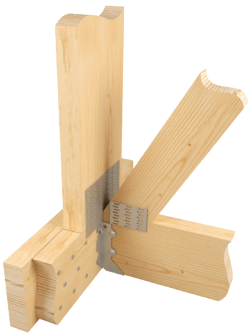
1) For JUS, MUS, HUS, THDH hangers: Nails must be driven at a 30° to 45° angle through the truss into the header.
2) **NAILS:** 10d nails are 0.148" dia. x 3" long, 16d nails are 0.162" dia. x 3-1/2" long. 16d sinkers are 0.148" dia. x 3-1/4" long and may be used where 10d commons are specified.

JUS28

THD28-2

THDH26-2

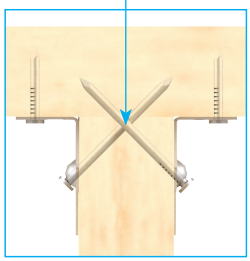
HUS410



Typical JUS26 installation

Double shear nail design features fewer nails and faster installation

Drive joist nails into header at a 30° to 45°angle.



JUS, MUS, HUS, THDH double shear nail design

PLATED TRUSS INSTALLATION GUIDE

MSH ADJUSTABLE STRAP HANGERS

Codes: IBC, FL, LABC

MiTek Stock No.	Ref. No.	Fastener Schedule[1,2,3]								
		Maximum Nailing				Minimum Nailing				
		Supporting Member		Supported Member		Supporting Member			Supported Member	
		Face Qty	Type	Qty	Type	Top Qty	Face Qty	Type	Qty	Type
MSH29	THA29	18	10d	4	10d	4	2	10d	4	10d x 1-1/2
MSH213	THA213	20	10d	4	10d	4	2	10d	4	10d x 1-1/2

1) **Maximum Nailing** - All header nails used should be driven into the wide face of the header. Double shear nailing required through the truss into header.
2) **Minimum Nailing** - The hanger is installed in a top mount condition with at least the top two header face nail holes filled, and four top flange nail holes filled. The strap must wrap over the top at least 2-1/2" and the joist nails shall be installed straight into the joist.
3) **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 sinkers are 0.148" dia. x 3-1/4" long and may be used where 10d commons are specified.

MSH29

Typical MSH29 maximum/minimum nailing installation

MSH / MSHL/R ADJUSTABLE FLOOR TRUSS HANGERS

Codes for HJC series: IBC, FL, LABC

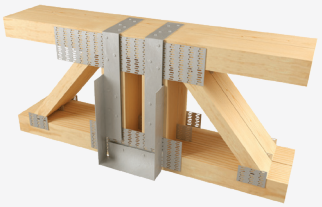
Supported Member	MiTek Stock No.	Ref. No.	Fastener Schedule[2,3]								
			Maximum Nailing				Minimum Nailing				
			Supporting Member		Supported Member		Supporting Member			Supported Member	
			Face Qty	Type	Qty	Type	Top Qty	Face Qty	Type	Qty	Type
1 Ply	MSH418	THA418	18	10d	6	10d	4	2	10d	6	10d
	MSH422	THA422	22	10d	6	10d	4	2	10d	6	10d
	MSH422IF	THAC422	22	10d	4	10d	4	2	10d	4	10d
2 Ply	MSH422-2	THA422-2	26	16d	6	16d	4	4	16d	6	16d
	MSH422-2IF	THAC422-2	26	16d	6	16d	4	4	16d	6	16d
	MSH422L/R	THAL/R422	14	10d	6	10d	4	2	10d	6	10d

1) **Maximum Nailing** - All header nails used should be driven into the wide face of the header. Double shear nailing required through the truss into header for applicable models.
2) **Minimum Nailing** - The hanger is installed in a top mount condition with at least the top two header face nail holes filled, and four top flange nail holes filled. The strap must wrap over the top at least 2-1/2" and the joist nails shall be installed straight into the joist.
3) **NAILS:** 10d nails are 0.148" diameter x 3" long and 16d nails are 0.162" diameter x 3-1/2" long.

MSH422IF

MSH422L left skew

Typical MSH422-2IF minimum nailing installation



MSH422L left skew installation

PLATED TRUSS INSTALLATION GUIDE

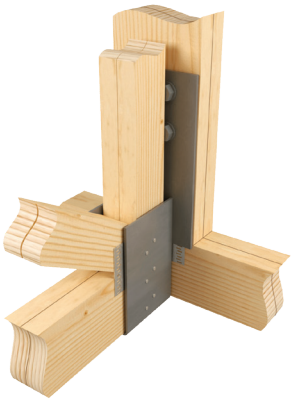
GT GIRDER TRUSS HANGERS

Codes: IBC, FL, LABC

Supported Member	MiTek Stock No.	Ref. No.	Fastener Schedule[1,2]				Minimum Vertical Member
			Supporting Truss		Supported Truss		
			Qty	Bolt Dia.	Qty	Type	
2 Ply	GT2T2B	--	2	3/4	12	16d	2 x 6
	GT2T2BH	--	2	1	12	16d	
	GT2T3B	--	3	3/4	12	16d	
	GT2T4B	THGB2	4	3/4	12	16d	2 x 8
	GT2T6B	--	6	3/4	12	16d	
	GT2T6BH	--	6	1	12	16d	
	GT2T8B	THGBH2	8	3/4	12	16d	
3 Ply	GT3T3B	--	3	3/4	12	16d	2 x 6
	GT3T3BH	--	3	1	12	16d	
	GT3T4B	THGB3	4	3/4	12	16d	2 x 8
	GT3T4BH	--	4	1	12	16d	
	GT3T6B	--	6	3/4	12	16d	
	GT3T6BH	--	6	1	12	16d	
	GT3T8B	THGBH3	8	3/4	12	16d	
	GT3T8BH	--	8	1	12	16d	
4 Ply	GT4T4B	--	4	3/4	12	16d	2 x 8
	GT4T4BH	--	4	1	12	16d	
	GT4T6B	--	6	3/4	12	16d	
	GT4T6BH	--	6	1	12	16d	
	GT4T8B	THGBH4	8	3/4	12	16d	
5 Ply	GT5T8BH	--	8	1	12	16d	2 x 8

1) Bolts shall conform to ASTM A 307 Grade A or better.
2) **NAILS:** 16d nails are 0.162" dia. x 3-1/2" long.

GT2T4B



Typical GT2T4B installation

GTQ GIRDER TRUSS HANGERS

Supported Member	MiTek Stock No.	Ref. No.	Install Type	Min Vert Web Size	Fastener Schedule[1]					
					Supporting Member[2]			Supported Member		
					Qty	Type[3]	Min. No. of Plies	Qty[4]	Type	No. of Plies
2 Ply	GTQ218	THGQ2-SDS3, THGQH2-SDS3	Min	2x6	18	WS3	2	20	WS3	2
			Max	2x8	30					
3 Ply	GTQ318	THGQ3-SDS4.5, THGQH3-SDS4.5	Min	2x6	25	WS45	3	20	WS45	3
			Max	2x8	33					
4 Ply	GTQ420	THGQH4-SDS6	Min	2x8	41	WS6	4	20	WS6	4
			Max	2x10	47					

1) MiTek's WS3 (1/4" dia. x 3" long), WS45 (1/4" dia. X 4-1/2" long, and WS6 (1/4" dia. x 6" long) structural wood screws are included with GTQ hangers.
2) Truss plies of the supporting member must be fastened together to transfer the load (through all truss plies) that is not transferred by the hanger screws; fastening schedule is to be specified by the truss designer.
3) If the length of the screws going into the supporting truss are longer than the thickness of the plies, refer to the backer block installation on page 12.
4) MiTek's WS structural wood screws specified for supported member must ALL be installed into the supported member while maintaining a minimum 5/8" edge distance where truss connector plates are not present.

GTQ218

Typical GTQ218 installation

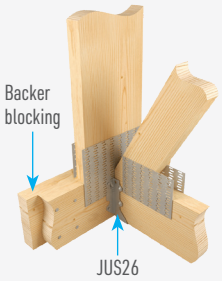
PLATED TRUSS INSTALLATION GUIDE

GENERAL BLOCKING NOTES

Backer block installation

Wood blocking used to achieve full design load value of a face mount hanger attached to a carrying member. **(Blocking to be designed by truss designer or engineer of record)**

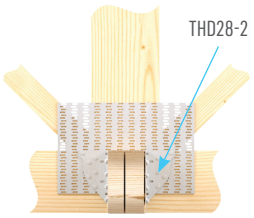
- → Wood blocking should be of similar size/grade as the truss member to which it is attached. The blocking should be designed to act as one unit with truss members.
- → Truss designer shall approve blocking size/grade, fasteners required, and application.
- → All fasteners used to attach wood blocking should be independent of the fasteners in the truss hanger.



Panel point installation

Connection with face mount hanger attaching to a truss panel point.

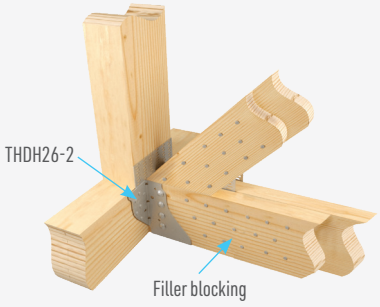
Hanger nails that do not penetrate wood in panel point provide no load resistance. Reduce load according to the code.

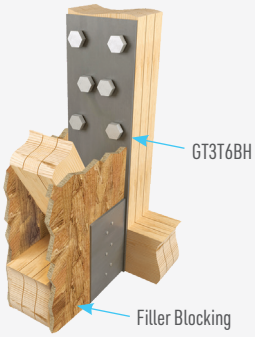


Filler block installation

Wood filler blocking used for supported member width less than hanger width.

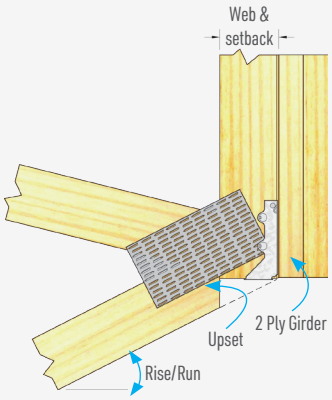
Blocking and blocking fasteners/ quantity to be designed by truss designer or engineer of record.





Alternate Design for Sloped Bottom Chord Trusses

Rise / Run (inches)	Vertical Web	Slope (degrees)
1/12	2 x 4	5/16
	2 x 6	1/2
2/12	2 x 4	5/8
	2 x 6	15/16
3/12	2 x 4	7/8
	2 x 6	1-3/8
4/12	2 x 4	1-3/16
	2 x 6	1-7/8
5/12	2 x 4	1-1/2
	2 x 6	2-5/16
6/12	2 x 4	1-3/4
	2 x 6	2-3/4
7/12	2 x 4	2-1/16
	2 x 6	3-1/4
8/12	2 x 4	2-3/8
	2 x 6	3-11/16
9/12	2 x 4	2-5/8
	2 x 6	4-1/8
10/12	2 x 4	2-15/16
	2 x 6	4-5/8
11/12	2 x 4	3-1/4
	2 x 6	5-1/16
12/12	2 x 4	3-1/2
	2 x 6	5-1/2



This alternate design for sloped bottom chord trusses demonstrates the use of end-vertical upset to allow for the use of non-sloped hangers.

Upset = Rise/Run x (Web + Setback)

This procedure will work with common standard hangers as well as terminal hangers such as MiTek's HJC, HHC, and HJHC series. Designer should review the D-dimension on the hanger to confirm the flat area on the vertical is sufficient for full bearing.

Truss designer shall be responsible for all truss design issues, including but not limited to plate shear and truss bearing.