MUS / HUS Slant Nail Truss Hangers

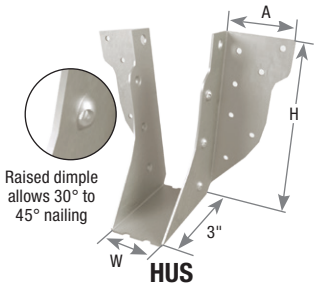
The MUS / HUS hanger series offers double shear nailing. MiTek's raised dimple allows for 30° to 45° nailing through the joist into header, resulting in higher loads and less nailing.

Materials: MUS – 18 gauge; HUS – 16 gauge
Finish: G90 galvanizing
Options: See chart for Corrosion Finish Options
Codes: IBC, FL, LA

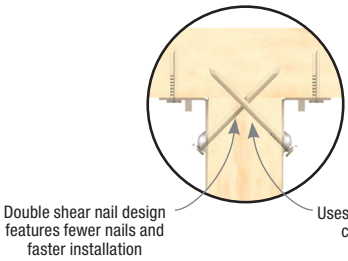
Installation:

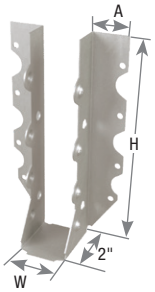
- Use all specified fasteners. See Product Notes, page 18.
- Joist nails must be driven in at a 30° to 45° angle through the joist or truss into the header to achieve listed loads. **Slant/double shear nails must be used to achieve listed load values.**
- See HUS EWP applications on page 214.

Typical HUS installation
(MUS similar)



HUS





MUS

Joist / Truss Size	MiTek USP Stock No.	Ref. No.	Steel Gauge	Dimensions (in)			Fastener Schedule[3] Header		Fastener Schedule[3] Truss[2]		DF/SP Allowable Loads (Lbs.)[3] Floor	DF/SP Roof		DF/SP Uplift[1]	S-P-F Allowable Loads (Lbs.)[3] Floor	S-P-F Roof		S-P-F Uplift[1]	Corrosion Finish	Code Ref.
				W	H	A	Qty	Type	Qty	Type	100%	115%	125%	160%	100%	115%	125%	160%		
2 x 6 - 8	MUS26	MUS26	18	1-9/16	5-1/16	1	6	10d	6	10d	1285	1475	1605	865	1190	1365	1475	760		IBC, FL, LA
	HUS26	HUS26	16	1-5/8	5-7/16	2	14	16d	6	16d	2760	3140	3400	**2045**	2430	2765	2990	**1640**		
2 x 8 - 10	MUS28	MUS28	18	1-9/16	7-1/16	1	8	10d	8	10d	1710	1970	2140	1230	1585	1815	1965	1085		
	HUS28	HUS28	16	1-5/8	7-3/16	2	22	16d	8	16d	4170	4745	**5125**	**2990**	3670	4035	4130	**2410**		
2 x 10 - 12	HUS210	HUS210	16	1-5/8	9-3/16	2	30	16d	10	16d	5455	5825	**6060**	4110	4235	4565	4780	**3410**		

1) Uplift loads have been increased 60% for wind or seismic loads; no further increase shall be permitted.
2) Nails must be driven at a 30° to 45° angle through joist or truss into header to achieve the table loads.
3) **NAILS:** 10d nails are 0.148" dia. x 3" long, 16d nails are 0.162" dia. x 3-1/2" long.
New products or updated product information are designated in **blue font**.

Corrosion Finish
Stainless Steel · Gold Coat · HDG · Triple Zinc

CLPBF Butterfly Hanger

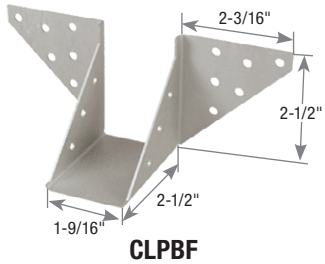
The butterfly hanger's flared header flange design allows for added nailing. Excellent truss-to-truss hanger for 2x4 purlin or truss bottom chords.

Materials: 18 gauge
Finish: G90 galvanizing
Codes: IBC, FL, LA

Installation:

- Use all specified fasteners. See Product Notes, page 18.

Typical CLPBF installation



CLPBF

Joist Size	MiTek USP Stock No.	Ref. No.	Steel Gauge	Fastener Schedule[2] Header Qty	Header Type	Joist Qty	Joist Type	DF/SP Allowable Loads (Lbs.) Floor 100%	Roof 115%	Roof 125%	Uplift[1] 160%	Code Ref.
2 x 4	CLPBF	--	18	12	10d	6	10d x 1-1/2	1340	1340	1340	**195**	IBC, FL, LA

1) Uplift loads have been increased 60% for wind or seismic loads; no further increase shall be permitted.
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.
New products or updated product information are designated in **blue font**.

THD Heavy-Duty Face Mount Truss Hangers

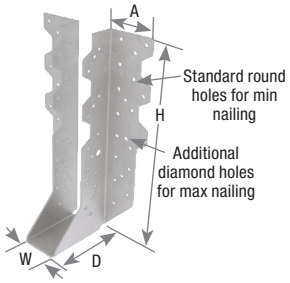
Medium-to-heavy capacity face mount hanger. Some THD models are available with a min/max installation option.

Materials: See chart
Finish: G90 galvanizing
Options: See chart for Corrosion Finish Options
Codes: IBC, FL, LA

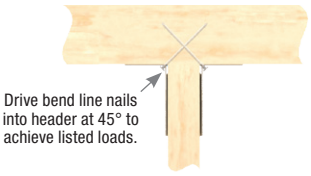
Installation:
- Use all specified fasteners. See Product Notes, page 18.
- Drive bend line nails into header at 45° to achieve listed loads.
- **Min Nailing** – Fill all round nail holes.
- **Max Nailing** – Fill all round and diamond holes.

Some model designs may vary from illustration shown

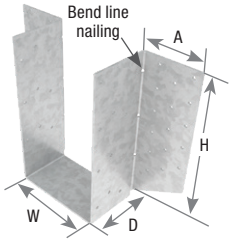
Typical THD28 installation



THD210



Typical bend line nail installation



THD210-3

Joist / Truss Size	MiTek USP Stock No.	Ref. No.	Steel Gauge	Dimensions (in) W	H	D	A	Fastener Schedule[2] Min/ Max	Header Qty	Header Type	Truss Qty	Truss Type	DF/SP Allowable Loads (Lbs.) Floor 100%	DF/SP Roof 115%	DF/SP Roof 125%	DF/SP Uplift[1] 160%	S-P-F Allowable Loads (Lbs.) Floor 100%	S-P-F Roof 115%	S-P-F Roof 125%	S-P-F Uplift[1] 160%	Corrosion Finish	Code Ref.
2 x 6 - 8	THD26	HTU26	16	1-5/8	5-1/16	3	1-7/8	Min	18	16d	12	10d x 1-1/2	2645	3000	3240	2265	2325	2640	2850	1875		IBC, FL, LA
								Max	20	16d	20	10d x 1-1/2	2940	3240	3240	2315	2585	2665	2665	1900		
2 x 8 - 10	THD28	HTU28	16	1-5/8	7	3	1-7/8	Min	28	16d	16	10d x 1-1/2	4115	4200	4200	2315	3435	3435	3435	1890		
								Max	28	16d	26	10d x 1-1/2	4115	4670	4975	2315	3620	4105	4120	1915		
2 x 10 - 12	THD210	HTU210	16	1-5/8	9	3	1-7/8	Min	38	16d	20	10d x 1-1/2	5315	5620	5660	3775	4110	4380	4575	3320		
								Max	38	16d	32	10d x 1-1/2	5585	6145	6145	4035	4915	5120	5120	3365		
(2) 2 x 6 - 8	THD26-2	HHUS26-2, HTU26-2	14	3-7/16	5-3/8	3	2	--	18	16d	12	10d	2770	3125	3355	2340	2440	2750	2950	2060		
(2) 2 x 8 - 10	THD28-2	HHUS28-2, HTU28-2	14	3-7/16	7-1/8	3	2	--	28	16d	16	10d	4310	4860	5005	2595	3795	4035	4035	2090		
(2) 2 x 10 - 12	THD210-2	HHUS210-2, HTU210-2	14	3-7/16	9-1/8	3	2	--	38	16d	20	10d	5850	6600	7045	3905	5145	5705	5705	3270		
4 x 6 - 8	THD46	HHUS46	14	3-5/8	5-5/16	3	2	--	18	16d	12	10d	2770	3125	3355	2340	2440	2750	2950	2060		
4 x 8 - 10	THD48	HHUS48	14	3-5/8	7-1/16	3	2	--	28	16d	16	10d	4310	4860	5005	2595	3795	4020	4020	2080		
4 x 10 -12	THD410	HHUS410	14	3-5/8	9-1/16	3	2	--	38	16d	20	10d	5850	6600	7045	3905	5145	5680	5680	3255		
4 x 12 - 14	THD412	--	14	3-5/8	11	3	3	--	48	16d	20	10d	7045	7045	7045	3905	5680	5680	5680	3255		
4 x 14 - 16	THD414	--	14	3-5/8	12-7/8	3	3	--	58	16d	20	10d	7045	7045	7045	3905	5680	5680	5680	3255		
(3) 2 x 10 - 12	THD210-3	HHUS210-3	12	5-1/8	9	3	3	--	38	16d	20	10d	6535	7255	7745	4035	5750	6380	6650	3240		
6 x 10 -12	THD610	HHUS5.50/10	12	5-1/2	9	3	3	--	38	16d	20	10d	6535	7255	7745	4035	5750	6380	6630	3230		
6 x 12 - 14	THD612	--	12	5-1/2	11	3	3	--	48	16d	20	10d	8255	8285	8285	4035	6630	6630	6630	3230		
6 x 14 - 16	THD614	--	12	5-1/2	12-7/8	3	3	--	58	16d	20	10d	8285	8285	8285	4035	6630	6630	6630	3230		
(4) 2 x 10 - 12	THD210-4	HHUS210-4	12	6-3/4	9	3	3	--	38	16d	20	10d	6535	7255	7745	4035	5750	6380	6620	3230		
7 x 9-1/4 - 14	THD7210	HHUS7.25/10	12	7-1/4	9	3	3	--	38	16d	20	10d	6535	7255	7745	4035	5750	6380	6605	3220		

1) Uplift loads have been increased 60% for wind or seismic loads; no further increase shall be permitted.
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,16d nails are 0.162" dia. x 3-1/2" long.
New products or updated product information are designated in **blue font**.

Corrosion Finish
Stainless Steel Gold Coat
HDG Triple Zinc

Specialty Options Chart

– refer to Specialty Options pages 320-321 for additional details.

Option	Skewed[1,3]	Sloped Seat[2]	Sloped / Skewed[1,2,3]	Inverted Flange
Range	1° to 45°	1° to 45°	See Sloped Seat and Skewed	Not available in widths < 3". Widths ≥ 3" can have one flange inverted.
Allowable Loads	85% of table load	65% of table load	65% of table load	100% of table load. 65% of table load when nailing into the support members end grain.
Ordering	Add *SK*, angle required, right *(R)* or left *(L)*, and square cut *(SQ)* or bevel cut *(BV)* to product number. Ex. THD410_SK45R_SQ	Add *SL*, slope required, and up *(U)* or down *(D)*, to product number. Ex. THD410_SL30D	See Sloped Seat and Skewed. Ex. THD410_SK45R_SQ_SL30D	Add *IF*, one flange, right *(R)* and left *(L)*, to product number. Ex. THD410_IFR

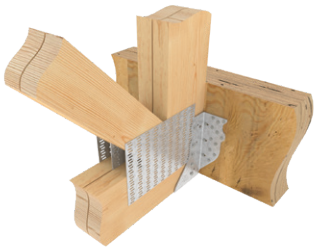
1) Skewed hangers with skews greater than 15° may have all joist nailing on outside flange.
2) Sloped or sloped / skewed hangers with slopes greater than 15° may have additional joist nails.
3) For skewed hangers, the required cut type (square or bevel) of joist member may vary based on skew angle and width of hanger. Some square cut hangers will require custom pricing due to welded back plate.

THDH Heavy-Duty Truss Hangers

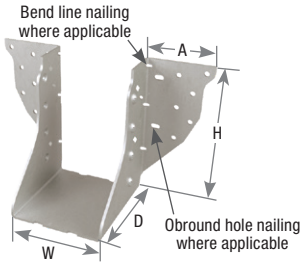
Materials: 12 gauge
Finish: G90 galvanizing
Options: See chart for Corrosion Finish Options and page 271 for Specialty Options chart
Codes: IBC, FL, LA

Installation:
- Use all specified fasteners. See Product Notes, page 18.
- Joist nails must be driven in at a 30° to 45° angle through the joist or truss into the header to achieve listed loads. **Slant/double shear nails must be used to achieve listed load values.**
- See EWP applications pages 214-216.

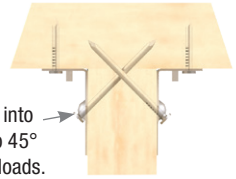
Some model designs may vary from illustration shown



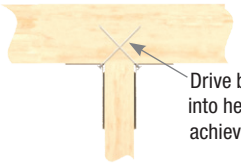
Typical THDH installation



THDH



Typical double shear installation



Typical bend line nail installation

Joist / Truss Size	MiTek USP Stock No.	Ref. No.	Dimensions (in) W	H	D	A	Fastener Schedule[3] Header Qty	Header Type	Truss[2] Qty	Truss Type	DF/SP Allowable Loads (Lbs.) Floor 100%	Roof 115%	Roof 125%	Uplift[1] 160%	S-P-F Allowable Loads (Lbs.) Floor 100%	Roof 115%	Roof 125%	Uplift[1] 160%	Corrosion Finish	Code Ref.
2 x 6 - 8	THDH26	HGUS26	1-5/8	5-7/16	5	3-1/2	20	16d	8	16d	4375	4895	5180	2805	3850	4145	4145	2240		
2 x 8 - 10	THDH28	HGUS28	1-5/8	7-3/16	5	3-1/2	36	16d	12	16d	7595	8175	8175	4345	6240	6585	6585	3500		
2 x 10 - 12	THDH210	--	1-5/8	9-3/16	5	3-1/2	46	16d	16	16d	9310	9710	9710	5290	7255	7770	7870	4285		
2-11/16 x 9-1/4 - 14	THDH27925	--	2-3/4	9-1/8	4	2-1/2	46	16d	12	16d	9020	9020	9020	4345	7515	7850	7850	3480		
2-11/16 x 11-1/4 - 16	THDH27112	--	2-3/4	10-7/8	4	2-1/2	56	16d	14	16d	9710	9710	9710	4345	7795	7795	7795	3490		
2-11/16 x 14 - 16	THDH2714	--	2-3/4	12-1/4	4	2-1/2	66	16d	16	16d	11185	11325	11325	5290	8530	9045	9115	4260		
3-1/4 x 9-1/2	THDH3210	HGUS3.25/10	3-1/4	9-3/8	4	2-1/2	46	16d	12	16d	9020	9020	9020	4345	7830	7830	7830	3470		
3-1/4 x 10-5/8	THDH3212	HGUS3.25/12	3-1/4	10-5/8	4	2-1/2	56	16d	14	16d	9710	9710	9710	5290	7775	7775	7775	4235		IBC, FL, LA
(2) 2 x 6 - 8	THDH26-2	HGUS26-2	3-1/4	5-1/2	4	2-1/2	20	16d	8	16d	4375	4895	5180	2805	3850	4120	4120	2230		
(2) 2 x 8 - 10	THDH28-2	HGUS28-2	3-1/4	7-1/4	4	2-1/2	36	16d	10	16d	7360	8175	8175	3000	6475	6520	6520	2390		
(2) 2 x 10 - 12	THDH210-2	HGUS210-2	3-1/4	9-1/4	4	2-1/2	46	16d	12	16d	9020	9020	9020	4345	7835	7835	7835	3475		
4 x 6 - 8	THDH46	HGUS46	3-5/8	5-5/16	4	2-1/2	20	16d	8	16d	4375	4895	5180	2805	3850	4115	4115	2225		
4 x 8 - 10	THDH48	HGUS48	3-5/8	7-1/16	4	2-1/2	36	16d	10	16d	7360	8175	8175	3000	6475	6505	6505	2385		
4 x 10 - 12	THDH410	HGUS410	3-5/8	9-1/16	4	2-1/2	46	16d	12	16d	9020	9020	9020	4345	7820	7820	7820	3470		
4 x 12 - 14	THDH412	HGUS412	3-5/8	11-1/16	4	2-1/2	56	16d	14	16d	9710	9710	9710	5290	7765	7765	7765	4230		
4 x 14 - 16	THDH414	HGUS414	3-5/8	13-1/16	4	2-1/2	66	16d	16	16d	11325	11325	11325	5305	9075	9075	9075	4250		

1) Uplift loads have been increased 60% for wind or seismic loads; no further increase shall be permitted.
2) Joist nails need to be toe nailed at a 30° to 45° angle to achieve allowable loads shown.
3) **NAILS:** 16d nails are 0.162" dia. x 3-1/2" long.
New products or updated product information are designated in **blue font**.

Corrosion Finish Stainless Steel Gold Coat HDG Triple Zinc

Continued on next page

Joist / Truss Size	MiTek USP Stock No.	Ref. No.	Dimensions (in)				Fastener Schedule[3]				DF/SP Allowable Loads (Lbs.)				S-P-F Allowable Loads (Lbs.)				Corrosion Finish	Code Ref.
							Header		Truss[2]		Floor	Roof		Uplift[1]	Floor	Roof		Uplift[1]		
			W	H	D	A	Qty	Type	Qty	Type	100%	115%	125%	160%	100%	115%	125%	160%		
(3) 2 x 6 - 8	THDH26-3	HGUS26-3	5-1/8	5-7/16	4	2-1/2	20	16d	8	16d	4375	4895	5180	2805	3850	4105	4105	2220		
(3) 2 x 8 - 10	THDH28-3	HGUS28-3	5-1/8	7-3/16	4	2-1/2	36	16d	12	16d	7595	8175	8175	4345	6500	6500	6500	3455		
(3) 2 x 10 - 12	THDH210-3	HGUS210-3	5-1/8	9-3/16	4	2-1/2	46	16d	16	16d	9710	9710	9710	5290	7750	7750	7750	4225		
(3) 2 x 12 - 14	THDH212-3	HGUS212-3	5-1/8	11-3/16	4	2-1/2	56	16d	20	16d	9530	9530	9530	5290	7635	7635	7635	4235		
(3) 2 x 14 - 16	THDH214-3	HGUS214-3	5-1/8	13-3/16	4	2-1/2	66	16d	22	16d	11325	11325	11325	5305	9085	9085	9085	4255		
6 x 10 - 12	THDH610	HGUS5.25/10, HGUS5.50/10	5-1/2	9	4	2-1/2	46	16d	16	16d	9020	9020	9020	5290	7805	7805	7805	4210		
6 x 12 - 14	THDH612	HGUS5.25/12, HGUS5.50/12	5-1/2	11	4	2-1/2	56	16d	20	16d	9530	9530	9530	5290	7610	7610	7610	4225		
6 x 14 - 16	THDH614	HGUS5.50/14	5-1/2	13	4	2-1/2	66	16d	22	16d	11325	11325	11325	5305	9055	9055	9055	4245		
(4) 2 x 6 - 8	THDH26-4	HGUS26-4	6-9/16	5-7/16	4	2	20	16d	8	16d	4375	4895	5180	2805	3850	4095	4095	2215		IBC, FL, LA
(4) 2 x 8 - 10	THDH28-4	HGUS28-4	6-7/16	7-9/16	4	2-1/2	36	16d	12	16d	7595	8175	8175	4345	6480	6480	6480	3445		
6-3/4 x 9 - 14	THDH6710	HGUS210-4, HGUS6.88/10	6-7/8	8-13/16	4	2-1/2	46	16d	12	16d	9020	9020	9020	4345	7765	7765	7765	3445		
6-3/4 x 11 - 18	THDH6712	HGUS212-4, HGUS6.88/12	6-7/8	10-13/16	4	2-1/2	56	16d	14	16d	9020	9020	9020	5290	7775	7775	7775	4195		
6-3/4 x 13 - 20	THDH6714	HGUS214-4, HGUS6.88/14	6-7/8	12-13/16	4	2-1/2	66	16d	16	16d	11325	11325	11325	5305	8995	8995	8995	4215		
7 x 9-1/4 - 14	THDH7210	HGUS7.25/10	7-1/4	9	4	2-1/2	46	16d	12	16d	9020	9020	9020	4345	7760	7760	7760	3440		
7 x 11-1/4 - 16	THDH7212	HGUS7.25/12	7-1/4	10-1/2	4	2-1/2	56	16d	14	16d	9020	9020	9020	5290	7770	7770	7770	4195		
7 x 14 - 20	THDH7214	HGUS7.25/14	7-1/4	12-1/4	4	2-1/2	66	16d	16	16d	11325	11325	11325	5305	8990	8990	8990	4215		

1) Uplift loads have been increased 60% for wind or seismic loads; no further increase shall be permitted.
2) Joist nails need to be toe nailed at a 30° to 45° angle to achieve allowable loads shown.
3) **NAILS:** 16d nails are 0.162" dia. x 3-1/2" long.
New products or updated product information are designated in **blue font**.

Corrosion Finish
Stainless Steel Gold Coat
HDG Triple Zinc

Specialty Options Chart

– refer to Specialty Options pages 320-321 for additional details.

Option	Skewed[1,3]	Sloped Seat[2]	Sloped / Skewed[1,2,3]
Range	1° to 45°	1° to 45°	See Sloped Seat and Skewed
Allowable Loads	85% of table allowable load. 50% of table uplift load.	85% of table allowable load	52% of table allowable load. 50% of table uplift load.
Ordering	Add *SK*, angle required, right *(R)* or left *(L)*, and square cut *(SQ)* or bevel cut *(BV)* to product number. Ex. THDH410_SK45R_BV	Add SL, slope required, and up (U) or down (D), to product number. Ex. THDH410_SL30D	See Sloped Seat and Skewed. Ex. THDH410_SK45R_BV_SL30D

1) Skewed THDH hangers with skews greater than 15° always have all joist nailing on one side of the outside flange.
2) Sloped or sloped / skewed hangers with slopes greater than 15° may have additional joist nails.
3) Skewed hangers typically require a bevel cut however, a square cut option may be available as a custom when requested.
Inverted flange option is not available for THDH models.

THDHQ Girder Truss Hangers

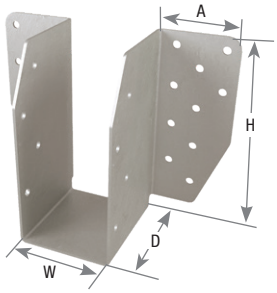
The THDHQ hangers are designed to attach multi-ply girder trusses together using MiTek's WS structural wood screws for higher design load capacity. THDHQ hangers can also be used to attach structural composite lumber (SCL).

Materials: 12 gauge
Finish: G90 galvanizing
Codes: IBC, FL, LA

Installation:
- Use all specified fasteners.
- MiTek's WS structural wood screws are supplied with THDHQ hangers.

Typical THDHQ28-2 truss installation

Typical THDHQ28-2 SCL installation



THDHQ28-2

Joist / Truss Size	MiTek USP Stock No.	Ref. No.	Dimensions (in)				Fastener Schedule[2,3]				DF/SP Allowable Loads (Lbs.)				S-P-F Allowable Loads (Lbs.)				Code Ref.
							Supporting Member[5]		Supported Member		Floor	Roof		Uplift[1]	Floor	Roof		Uplift[1]	
			W	H	D	A	Qty	Type	Qty[4]	Type	100%	115%	125%	160%	100%	115%	125%	160%	
Double 2x Sizes																			
(2) 2 x 6 - 8	THDHQ26-2	--	3-5/16	5-7/16	4	1-15/16	12	WS3	4	WS3	5015	5745	5745	2055	4405	4560	4560	1630	IBC, FL, LA
(2) 2 x 8 - 10	THDHQ28-2	--	3-5/16	7-3/16	4	2-13/16	20	WS3	8	WS3	8355	9540	9540	3645	7340	7640	7640	2920	
(2) 2 x 10 - 12	THDHQ210-2	--	3-5/16	9-3/16	4	2-13/16	28	WS3	8	WS3	10840	10880	10880	5270	8035	8475	8715	4220	
Triple 2x Sizes																			
(3) 2 x 6 - 8	THDHQ26-3	--	4-15/16	5-7/16	4	1-15/16	12	WS45	4	WS45	5015	5745	5745	2055	4405	4545	4545	1625	
(3) 2 x 8 - 10	THDHQ28-3	--	4-15/16	7-3/16	4	2-13/16	20	WS45	8	WS45	8355	9540	9540	3645	7340	7595	7595	2900	
(3) 2 x 10 - 12	THDHQ210-3	--	4-15/16	9-3/16	4	2-13/16	28	WS45	8	WS45	10880	10880	10880	5270	8665	8665	8665	4195	
Quadruple 2x Sizes																			
(4) 2 x 6 - 8	THDHQ26-4	--	6-9/16	5-7/16	4	1-15/16	12	WS6	4	WS6	5015	5745	5745	2490	4405	4535	4535	1965	
(4) 2 x 8 - 10	THDHQ28-4	--	6-9/16	7-3/16	4	2-13/16	20	WS6	8	WS6	8355	9540	9540	4530	7340	7570	7570	3595	
(4) 2 x 10 - 12	THDHQ210-4	--	6-9/16	9-3/16	4	2-13/16	28	WS6	8	WS6	10880	10880	10880	4200	8635	8635	8635	3335	
4x Sizes																			
4 x 6 - 8	THDHQ46	--	3-5/8	5-7/16	4	1-15/16	12	WS3	8	WS3	5015	5745	5745	2055	4405	4590	4590	1640	
4 x 8 - 10	THDHQ48	--	3-5/8	7-3/16	4	2-13/16	20	WS3	8	WS3	8355	9540	9540	3645	7340	7625	7625	2910	
4 x 10 - 12	THDHQ410	--	3-5/8	9-3/16	4	2-13/16	28	WS3	8	WS3	10880	10880	10880	5270	8690	8690	8690	4210	

1) Uplift loads have been increased 60% for wind or seismic loads; no further increase shall be permitted.
2) 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 THDHQ hangers.
3) MiTek's WS structural wood screws may be installed through metal truss connector plates as approved by truss designer per ANSI/TPI 1-2014 Section 7.5.3.4 and 8.9.2. Pre-drilling required through the plate using a maximum of 5/32" bit.
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.
5) When fastening to a multi-ply supporting truss: use MiTek's WS3 for 2-ply, WS45 for 3-ply and WS6 for 4-ply.

New products or updated product information are designated in **blue font**.