

THD – Medium-duty hanger for LVL, LSL, and PSL beams.

THDH – Heavy-duty hanger for LVL, LSL, and PSL beams.

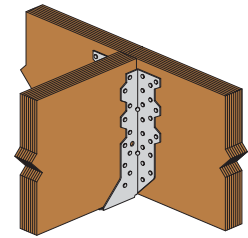
Materials: See EWP Face Mount Hangers charts, pages 127-129.

Finish: G90 galvanizing

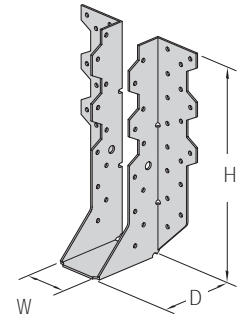
Options: Rough/ Full sizes available for THD series. THD hangers with widths greater than 3" can have one flange inverted with no load reduction. Specify left (L) or right (R) flange. See Specialty Options chart.

Codes: SBCCI, BOCA – NER 478 & NER 608, ICBO 2039, L.A. City RR 25283, **FL815, FL821**, DSA PA-076

Patents: #5,217,317 – **THDH**



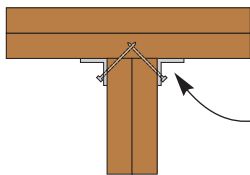
Typical **THD179** installation



THD single

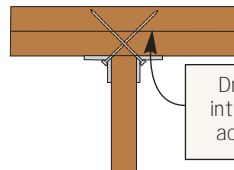
Installation:

- Use all specified fasteners.
- **THD** – Drive bend line nails into header at 45° to achieve listed loads.
- **THDH** – Drive joist nails into header at 30° to 45° to achieve listed loads.



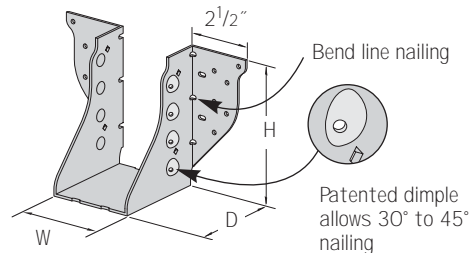
Drive joist nails into header at 30° to 45° to achieve listed loads.

Typical **THDH** double shear installation



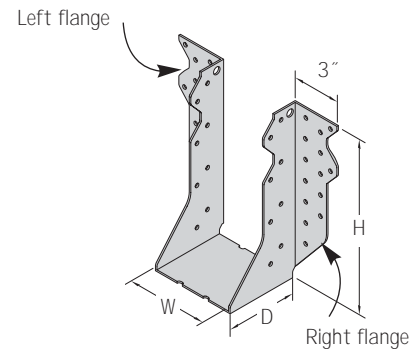
Drive bend line nails into header at 45° to achieve listed loads.

Typical **THD & THDH** bend line nail installation



THDH26-2

Some model designs may vary from illustration shown

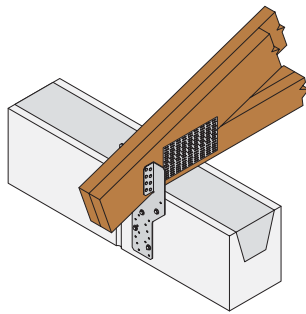


THD double or larger

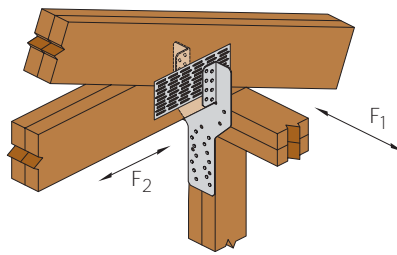
Specialty Options Chart – refer to Specialty Options pages 214 to 217 for additional details.

Option	USP Series	Skewed ^{1,3}	Sloped Seat ^{2,3}	Sloped / Skewed ^{1,2,3}	Inverted Flange
Range	THD	1° to 45°	1° to 45°	See Sloped Seat and Skewed	Not available in widths less than 3". Widths greater can have one flange inverted.
	THDH	1° to 45°	1° to 45°	See Sloped Seat and Skewed	N/A
Allowable Loads	THD	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.
	THDH	85% of table load. 50% of table uplift load.	52% of table load	52% of table load. 50% of table uplift load.	N/A
Ordering	THD	Add SK, angle required, and right (R) or left (L), to product number. Example: THDH410-SK45R	Add SL, slope required, and up (U) or down (D), to product number. Example: THDH410-SL30D	See Sloped Seat and Skewed Example: THDH410-SK45RSL30D	Add 1IF, one flange, right (R) and left (L). Example: THD4101IFR
	THDH				N/A

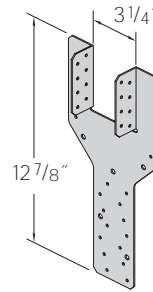
1) Skewed hangers with skews greater than 15° may have all joist nailing on outside flange. All skewed THDH hangers have nails on one side only.
 2) Sloped or sloped / skewed hangers with slopes greater than 15° may have additional joist nails.
 3) All sloped, skewed, or combinations require bevel cut on joist in all applications.



Typical **LUGT2** masonry installation



Typical **LUGT2** wood installation



LUGT2

USP Stock No.	Ref. No.	Steel Gauge	Fastener Schedule ³			Allowable Loads (Lbs.) ^{1,2}											
			Rafter/Truss	Plate	Stud ^{4,5,6}	DF-L / SP				S-P-F							
						F1	F2	Uplift		F1	F2	Uplift					
133%	160%	133%	160%	133%	160%	133%	160%	133%	160%	133%	160%						
LUGT2	LGT2	14	(16) 10d	(2) 10d	(14) 10d	1015	1015	440	440	2260	2260	875	875	285	285	1945	1945
LUGTC2	--	14	(16) 10d	(2) 10d	(14) 10d	575	575	--	--	2260	2260	500	500	--	--	1945	1945
Masonry Application																	
LUGT2	LGT2	14	(16) 10d	--	(5) 1/4" x 3" Wedge Bolts	1220	1220	460	460	1850	1850	1220	1220	460	460	1850	1850

- 1) Allowable loads have been increased 33-1/3% or 60% for wind or seismic loads; no further increase shall be permitted.
 - 2) Listed loads apply where roof pitch is between 3:12 and 8:12.
 - 3) Additional anchorage products to be designed by others.
 - 4) Use Powers Fasteners 1/4" x 3" Wedge-Bolt®; or equal, installed in accordance with manufacturer's specification.
 - 5) Fasteners shall be installed to fully grouted and reinforced concrete masonry (f_m = 1500 psi at 28 days) or reinforced concrete (f_c = 2000 psi at 28 days).
 - 6) Minimum nail penetration shall be 1-1/2" for 10d nails.
- New products or updated product information are designated in red.

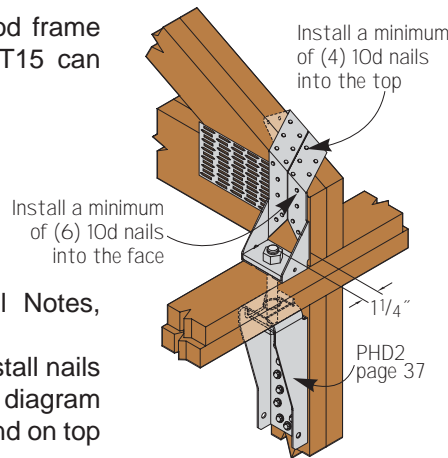
Girder Tiedown – MUGT15

Designed for higher uplift resistance for wood frame and concrete block construction. The MUGT15 can accommodate variable truss bearing depths.

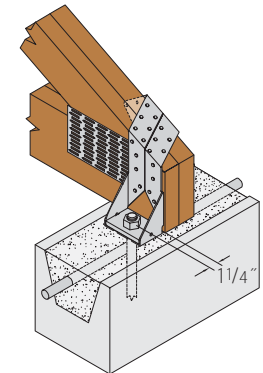
Materials: 12 gauge
Finish: G90 galvanizing
Codes: Submitted to ICC-ES

 **Installation:**

- Use all specified fasteners. See General Notes, page 14.
- When straps are wrapped over the truss, install nails in backside of truss. See MUGT15 installation diagram for minimum nail requirements into the face and on top of the truss.
- If installed straight-up with no wrap over the top of the truss, fill all nail holes.
- Moisture barrier may be required.



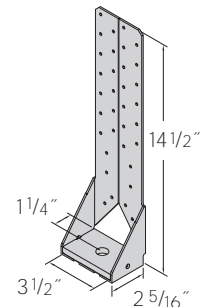
Typical **MUGT15** wood installation



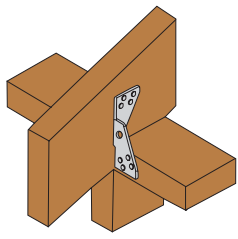
Typical **MUGT15** concrete installation

USP Stock No.	Ref. No.	Steel Gauge	Installation Type	Fastener Schedule ^{2,3}		Allowable Loads (Lbs.) ¹			
				Threaded Rod	Girder ³	DF-L / SP		S-P-F	
						133%	160%	133%	160%
MUGT15	MGT	12	Wood	(1) 5/8	(22) 10d	3965	3965	3330	3330
			Concrete	(1) 5/8	(22) 10d	3965	3965	3330	3330

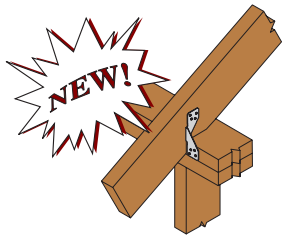
- 1) Allowable loads have been increased 33-1/3% or 60% for wind or seismic loads; no further increase shall be permitted.
 - 2) Additional anchorage products to be designed by others.
 - 3) Minimum nail penetration shall be 1-1/2" for 10d nails.
- New products or updated product information are designated in red.



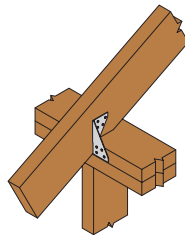
MUGT15



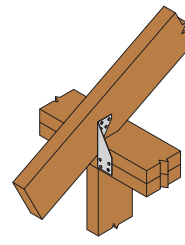
Typical **RT3** truss/rafter to plate installation



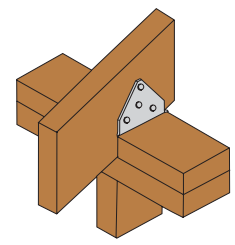
Typical **RT3A** truss/rafter to plate installation



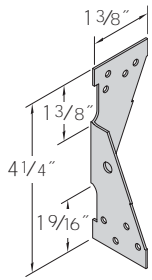
Typical **RT4** truss/rafter to plate installation



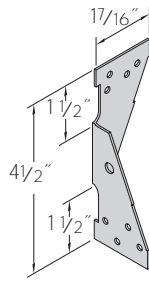
Typical **RT5** truss/rafter to double plate installation



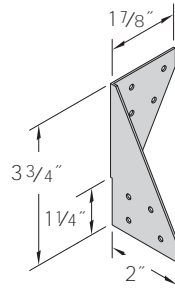
Typical **RT6** truss/rafter to double plate installation



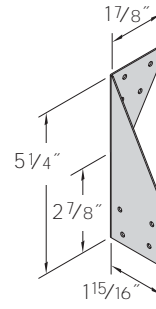
RT3



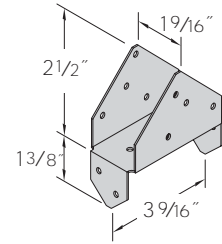
RT3A



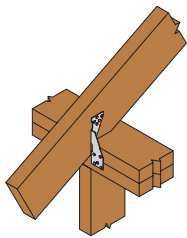
RT4



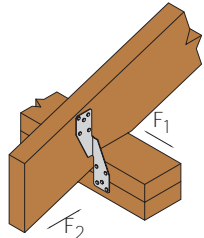
RT5



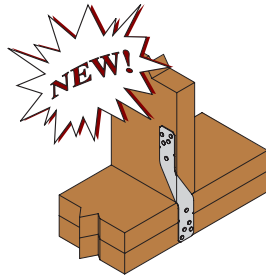
RT6



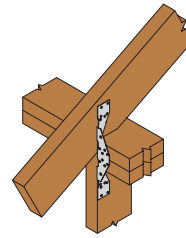
Typical **RT7** truss/rafter to double plate installation



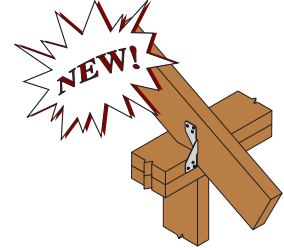
Typical **RT7A** truss/rafter to double plate installation



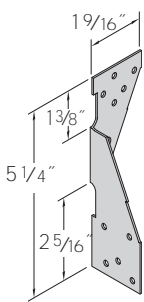
Typical **RT8A** stud to double plate installation



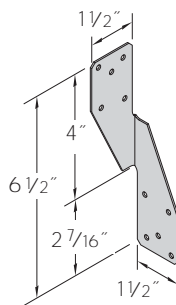
Typical **RT10** truss/rafter to double plate to stud installation



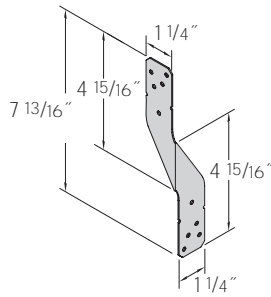
Typical **RT12A** truss/rafter to plate installation



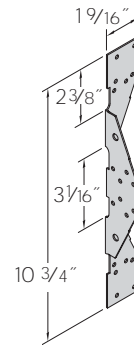
RT7



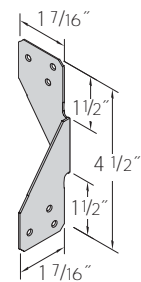
RT7A



RT8A

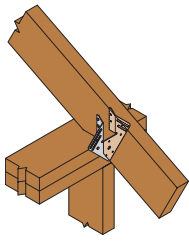


RT10

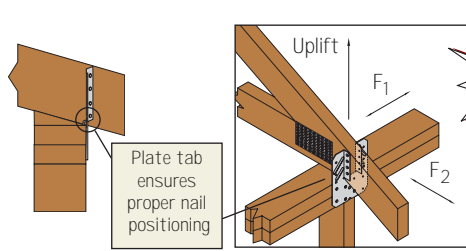


RT12A

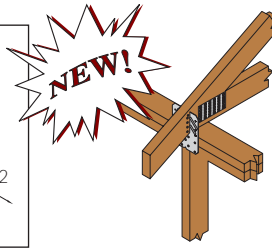
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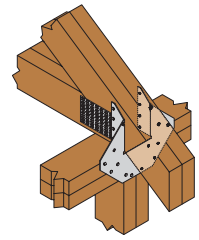
Typical **RT15**
truss/rafter to double
plate installation



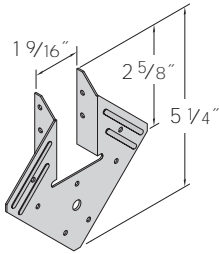
Typical **RT16**
truss/rafter to double
plate installation



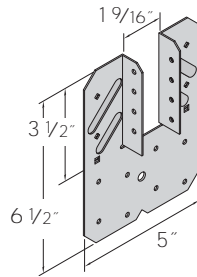
Typical **RT16A**
truss/rafter to double
plate installation



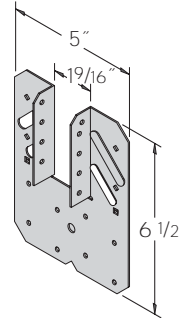
Typical **RT16-2**
truss/rafter to double
plate installation



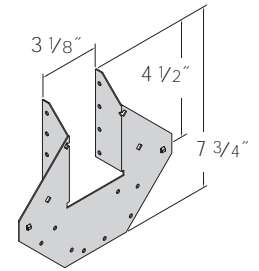
RT15



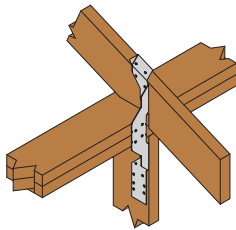
RT16



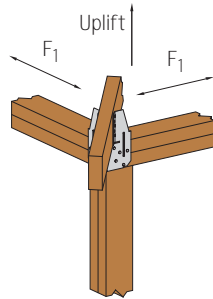
RT16A



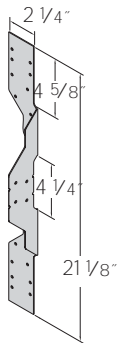
RT16-2



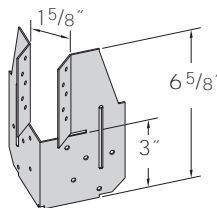
Typical **RT20**
truss/rafter to double
plate to stud installation



Typical **HHCP2** truss/rafter
to double plate
corner installation

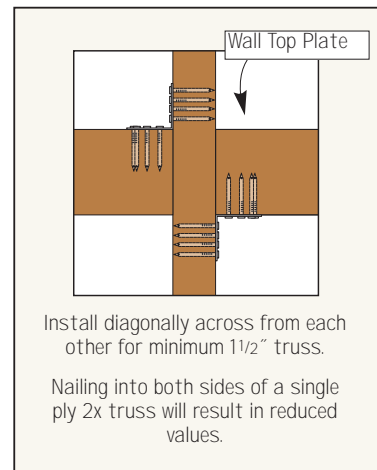


RT20



HHCP2

Hurricane Anchor installation
to achieve twice the load
(Top View)



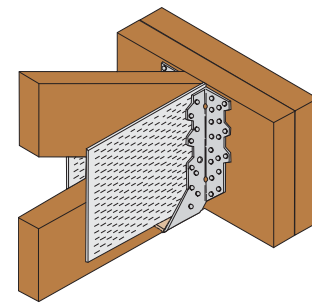
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Materials: See chart

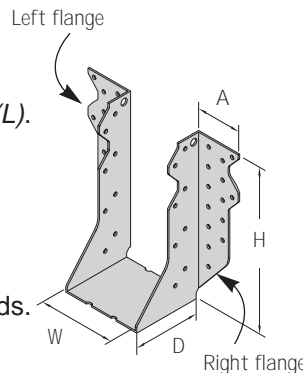
Finish: G90 galvanizing

Options: See Specialty Options Chart. Rough/Full sizes available. THD26, THD28, THD26-2, THD28-2, & THD210-2 are available in Triple Zinc. To order, add *TZ*, to stock number, as in **THD28-TZ**. THD hangers with widths greater than 3" can have one flange inverted with no load reduction. Specify right (*R*) or left (*L*).

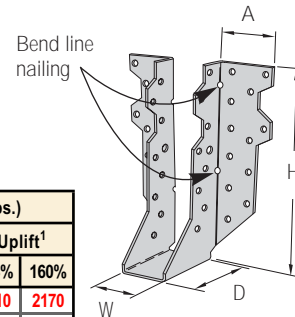
Codes: SBCCI, BOCA – NER 478, **FL815**, L.A. City RR 25283, DSA PA-076



Typical THD210 installation



THD28-2



THD28

Installation:

- Use all specified fasteners. See General Notes, page 14.
- Drive bend line nails into header at 45° to achieve listed loads.

Plated Truss

Joist / Truss Size	USP Stock No.	Ref. No.	Steel Gauge	Dimensions				Fastener Schedule ^{2,3}		Allowable Loads (Lbs.)				
				W	H	D	A	Header	Truss	Uplift ¹				
										100%	115%	125%	133%	160%
2 x 6 - 8	THD26	--	16	1-5/8	5-1/16	3	1-7/8	(18) 16d	(12) 10d x 1-1/2	2485	2855	3060	1810	2170
2 x 8 - 10	THD28	--	16	1-5/8	7	3	1-7/8	(28) 16d	(16) 10d x 1-1/2	3865	3965	3965	2330	2330
2 x 10 - 12	THD210	--	16	1-5/8	9	3	1-7/8	(38) 16d	(20) 10d x 1-1/2	5075	5115	5115	3015	3095
1-3/4 x 5-1/2 - 7-1/4	THD175	--	14	1-7/8	5	3	1-7/8	(18) 16d	(12) 10d x 1-1/2	2520	2900	3055	1825	2190
1-3/4 x 7-1/4 - 11-1/4	THD177	--	14	1-7/8	6-7/8	3	1-7/8	(28) 16d	(16) 10d x 1-1/2	3920	4485	4485	2330	2330
1-3/4 x 9-1/4 - 14	THD179	--	14	1-7/8	8-7/8	3	1-7/8	(38) 16d	(20) 10d x 1-1/2	5320	5800	5800	3040	3095
(2) 2 x 6 - 8	THD26-2	HHUS26-2	14	3-7/16	5-3/8	3	2	(18) 16d	(12) 10d	2520	2900	3055	1890	2265
(2) 2 x 8 - 10	THD28-2	HHUS28-2	14	3-7/16	7-1/8	3	2	(28) 16d	(16) 10d	3920	4510	4900	2485	2485
(2) 2 x 10 - 12	THD210-2	HHUS210-2	14	3-7/16	9-1/8	3	2	(38) 16d	(20) 10d	5320	6120	6650	3145	3775
4 x 6 - 8	THD46	HHUS46	14	3-5/8	5-5/16	3	2	(18) 16d	(12) 10d	2520	2900	3055	1890	2265
4 x 8 - 10	THD48	HHUS48	14	3-5/8	7-1/16	3	2	(28) 16d	(16) 10d	3920	4510	4900	2485	2485
4 x 10 - 12	THD410	HHUS410	14	3-5/8	9-1/16	3	2	(38) 16d	(20) 10d	5320	6120	6650	3145	3775
4 x 12 - 14	THD412	--	14	3-5/8	11	3	3	(48) 16d	(20) 10d	6650	6650	6650	3145	3775
4 x 14 - 16	THD414	--	14	3-5/8	12-7/8	3	3	(58) 16d	(20) 10d	7335	7335	7335	3145	3775
(3) 2 x 10 - 12	THD210-3	HHUS210-3	12	5-1/8	9	3	3	(38) 16d	(20) 10d	5320	6120	6650	3145	3775
6 x 10 - 12	THD610	HHUS610	12	5-1/2	9	3	3	(38) 16d	(20) 10d	5585	6425	6985	3335	3410
6 x 12 - 14	THD612	--	12	5-1/2	11	3	3	(48) 16d	(20) 10d	7055	8115	8415	3335	4000
6 x 14 - 16	THD614	--	12	5-1/2	12-7/8	3	3	(58) 16d	(20) 10d	7335	7335	7335	3145	3775

See ANSI/TPI section for truss chord applications page 200; for EWP applications pages 127-129.

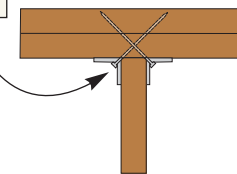
1) Uplift loads have been increased 33-1/3% or 60% for wind or seismic loads; no further increase shall be permitted.
 2) 10d x 1-1/2 nails are 9 gauge (0.148" diameter) by 1-1/2" long.
 3) Minimum nail penetration is 1-5/8" for 16d nails.
 New products or updated product information are designated in red.

Drive bend line nails into header at 45° to achieve listed loads.

Specialty Options Chart – refer to Specialty Options pages 214 to 217 for additional details.

Option	Skewed ^{1,3}	Sloped Seat ^{2,3}	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 <i>SK</i> , angle required, and right (<i>R</i>) or left (<i>L</i>), to product number. Ex. THD410-SK45R	Add <i>SL</i> , slope required, and up (<i>U</i>) or down (<i>D</i>), to product number. Ex. THD410-SL30D	See Sloped Seat and Skewed. Ex. THD410-SK45RSL30D	Add <i>1IF</i> , one flange, right (<i>R</i>) and left (<i>L</i>), to product number. Ex. THD4101IFR

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) All sloped, skewed, or combinations require bevel cut on joist in all applications.



Typical THD bend line nail installation

Some model designs may vary from illustration shown