

THAR/L422 Adjustable Truss Hangers

Designed for 4x2 floor trusses and 4x beams, the THAR/L422 has a standard skew of 45 degrees. Straps must be bent for top flange installation. PAN nailing helps eliminate splitting of 4x2 truss bottom chords.

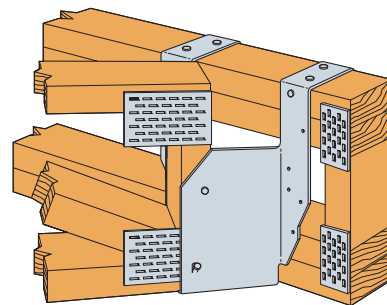
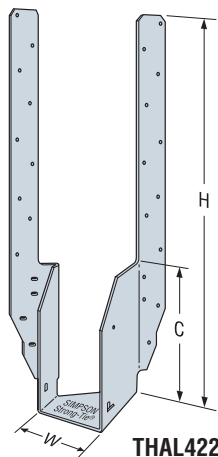
MATERIAL: 16 gauge

FINISH: Galvanized

INSTALLATION: Use all specified fasteners. See General Notes.

Two different installation methods may be used:

- **Maximum Nailing**—A minimum of four top and 12 face nails must be used. Straps must be field-formed over the header a minimum of 2½". Install 10d x 1½" nails into carried member PAN nail holes and 10d common nail into round nail hole. Install 10d common nails into carrying member.
- **Minimum Nailing**—A minimum of four top and 2 face nails must be used. Straps must be field-formed over the header a minimum of 2½". Install nails as detailed above. For single 4x carrying members, use 10d x 1½" nails and refer to the table for reduced values.



Typical THAR/L422 Installed on 4x2 Wood Truss

Model No.	Dimensions (in)			Minimum Carrying Member	Effective Height H _{eff}	Fasteners				Factored Resistance			
	W	H	C			Header		Joist		D.Fir-L		S-P-F	
						Top	Face	Straight	Slant	Uplift	Normal	Uplift	Normal
										(K _D =1.15)	(K _D =1.00)	(K _D =1.15)	(K _D =1.00)
lbs	kN	lbs	kN										
THAR/L422 (Min)	3%	22%	8	Single 4x2	9 min.	4-10d x 1½"	2-10d x 1½"	1-10d x 1½"	2-10d x 1½"	—	1445	—	1075
					9 to 12	4-10d	2-10d	1-10d	2-10d x 1½"	—	2215	—	1660
				Double 4x2	> 12	4-10d	2-10d	1-10d	2-10d x 1½"	—	9.87	—	7.39
					—	—	—	—	—	—	1695	—	1270
THAR/L422 (Max)	3%	22%	8	Double 4x2	9 min.	4-10d	8-10d	1-10d	2-10d x 1½"	585	2585	415	1845
					—	—	—	—	—	—	2.61	11.51	1.85

1. Factored uplift resistances have been increased 15% for wind or earthquake loading with no further increase allowed.
2. Where the top of the carried member is flush with the top of the carrying member, H_{eff} is equal to the depth of the carried member. Otherwise, H_{eff} shall be measured from the top of the bearing seat to the top of the carrying member.
3. **NAILS:** 10d = 0.148" dia. x 3" long, 10d x 1½" = 0.148" dia. x 1½" long. See page 16-17 for other nail sizes and information.

Plated Truss Connectors

THA/THAC Adjustable Truss Hangers



This product is preferable to similar connectors because of a) easier installation, b) higher loads, c) lower installed cost, or a combination of these features.

The THA series have extra long straps that can be field-formed to give height adjustability and top flange hanger convenience. THA hangers can be installed as top flange or face mount hangers.

NEW! The THA218-2, THA222-2, THA418, THA422, and THA426 models have added nail holes in the straps to ease top flange installation and provide more nail hole options for meeting top and face nailing requirements.

MATERIAL: See table

FINISH: Galvanized. Some products available in ZMAX® coating; see Corrosion Information, page 10-11.

INSTALLATION: • Use all specified fasteners. See General Notes.

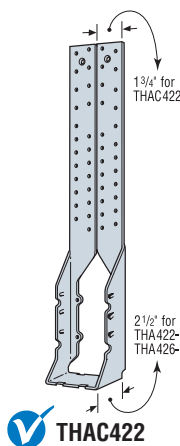
Two different installation methods may be used:

- **Top Flange Installation**—The straps must be field formed over the header a minimum of 2½" for the THA29, 1½" for the THA213 and THA413, and 2" for all others. Install top and face nails according to the table. Top nails shall not be within ¼" from the edge of the top flange members.

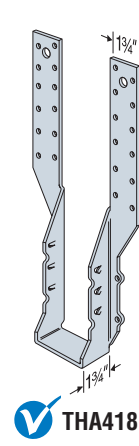
For the THA29, nails used for joist attachment must be driven at an angle so that they penetrate through the corner of the joist and into the header. For all other top flange installations, straighten the double shear nailing tabs and install the nails straight into the joist.

- **Face Mount Installation**—Install all face nails according to the table. Not all nail holes will be filled on all models. On models where there are more nail holes than required, the lowest 4 face holes must be filled. Nails used for the joist attachment must be driven at an angle so that they penetrate through the corner of the joist into the header.

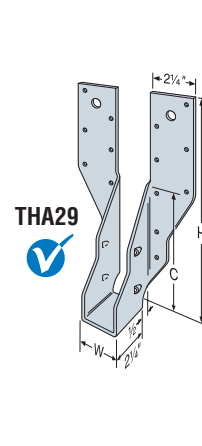
OPTIONS: • THA hangers available with the header flanges turned in for 3% (except THA413) and larger, with no load reduction – order THAC hanger.



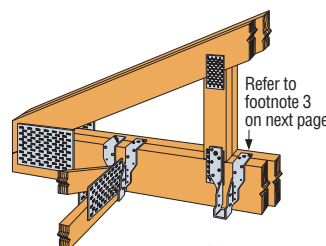
THAC422



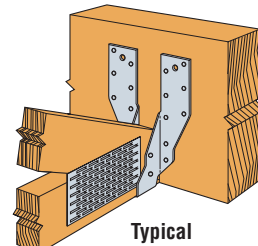
THA418



THA29



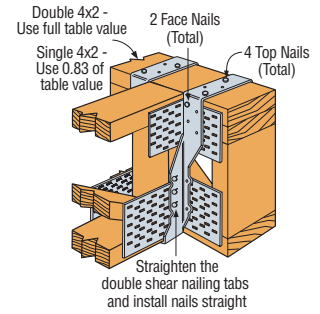
Typical THA29 Top Flange Installation



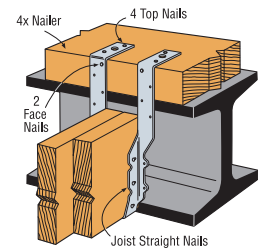
Typical THA29 Face Mount Installation

THA/THAC Adjustable Truss Hangers

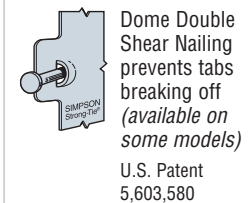
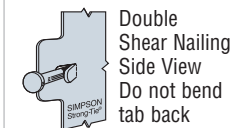
Min. Joist Size	Model No.	Ga	Dimensions (in)			Fasteners ¹				Factored Resistance			
			W	H	C	Header		Joist		D.Fir-L		S-P-F	
						Top	Face	Straight	Slant	Uplift (K _D =1.15)	Normal (K _D =1.00)	Uplift (K _D =1.15)	Normal (K _D =1.00)
TOP FLANGE INSTALLATION													
2x4	THA29	18	1%	9 1/16	5 1/2	4-10d	4-10d	—	4-10d	1050 4.68	3625 16.15	750 3.34	2750 12.25
2x6	THA213	18	1%	13 5/16	5 1/2	4-10d	2-10d	4-10dx1 1/2	—	—	2225 9.91	—	1655 7.37
	THA218	18	1%	17 3/16	5 1/2	4-10d	2-10d	4-10dx1 1/2	—	—	2225 9.91	—	1655 7.37
2-2x10	THA218-2	16	3%	17 1/16	8	4-16d	2-16d	6-16dx2 1/2	—	—	2675 11.92	—	2405 10.71
	THA222-2	16	3%	22 3/16	8	4-16d	2-16d	6-16dx2 1/2	—	—	2675 11.92	—	2405 10.71
4x6	THA413	18	3%	13 5/16	4 1/2	4-10d	2-10d	4-10d	—	—	2225 9.91	—	1655 7.37
4x10	THA418	16	3%	17 1/2	7 7/8	4-16d	2-16d	6-16d	—	—	2675 11.92	—	2405 10.71
	THAC418	16	3%	17 1/2	7 7/8	4-16d	2-16d	6-16d	—	—	2675 11.92	—	2405 10.71
4x2 Truss	THA422	16	3%	22	7 7/8	4-16d	2-16d	6-16d	—	—	2675 11.92	—	2405 10.71
	THAC422	16	3%	22	7 7/8	4-16d	2-16d	6-16d	—	—	2675 11.92	—	2405 10.71
	THA426	14	3%	26	7 7/8	4-16d	4-16d	6-16d	—	—	3590 15.99	—	2660 11.85
	THAC426	14	3%	26	7 7/8	4-16d	4-16d	6-16d	—	—	3590 15.99	—	2660 11.85
2-4x2 Truss	THA422-2	14	7%	22 1/16	9 3/4	4-16d	4-16d	6-16d	—	—	4605 20.51	—	3225 14.37
	THAC422-2	14	7%	22 1/16	9 3/4	4-16d	4-16d	6-16d	—	—	4605 20.51	—	3225 14.37
	THA426-2	14	7%	26 1/16	9 3/4	4-16d	4-16d	6-16d	—	—	3590 15.99	—	2665 11.87
	THAC426-2	14	7%	26 1/16	9 3/4	4-16d	4-16d	6-16d	—	—	3590 15.99	—	2665 11.87
FACE MOUNT INSTALLATION													
2x4	THA29	18	1%	9 1/16	5 1/2	—	16-10d	—	4-10d	1050 4.68	3440 15.32	750 3.34	2455 10.94
2x6	THA213	18	1%	13 5/16	5 1/2	—	14-10d	—	4-10d	1810 8.06	3075 13.70	1290 5.75	2290 10.20
	THA218	18	1%	17 3/16	5 1/2	—	18-10d	—	4-10d	1810 8.06	3075 13.70	1290 5.75	2290 10.20
2-2x10	THA218-2	16	3%	17 1/16	8	—	16-16d	—	6-16d	2920 13.01	4765 21.22	2065 9.20	3370 15.01
	THA222-2	16	3%	22 3/16	8	—	22-16d	—	6-16d	2920 13.01	5850 26.06	2065 9.20	4135 18.42
4x6	THA413	18	3%	13 5/16	4 1/2	—	14-10d	—	4-10d	1810 8.06	3555 15.84	1290 5.75	2540 11.31
4x10	THA418	16	3%	17 1/2	7 7/8	—	16-16d	—	6-16d	2920 13.01	4765 21.22	2065 9.20	3370 15.01
	THAC418	16	3%	17 1/2	7 7/8	—	16-16d	—	6-16d	2920 13.01	4765 21.22	2065 9.20	3370 15.01
4x2 Truss	THA422	16	3%	22	7 7/8	—	22-16d	—	6-16d	2920 13.01	5850 26.06	2065 9.20	4135 18.42
	THAC422	16	3%	22	7 7/8	—	22-16d	—	6-16d	2920 13.01	5850 26.06	2065 9.20	4135 18.42
	THA426	14	3%	26	7 7/8	—	30-16d	—	6-16d	2920 13.01	6405 28.53	2065 9.20	4525 20.16
	THAC426	14	3%	26	7 7/8	—	30-16d	—	6-16d	2920 13.01	6405 28.53	2065 9.20	4525 20.16
2-4x2 Truss	THA422-2	14	7%	22 1/16	9 3/4	—	30-16d	—	6-16d	3290 14.65	7715 34.37	2325 10.36	5455 24.30
	THAC422-2	14	7%	22 1/16	9 3/4	—	30-16d	—	6-16d	3290 14.65	7715 34.37	2325 10.36	5455 24.30
	THA426-2	14	7%	26 1/16	9 3/4	—	38-16d	—	6-16d	3290 14.65	7715 34.37	2325 10.36	5455 24.30
	THAC426-2	14	7%	26 1/16	9 3/4	—	38-16d	—	6-16d	3290 14.65	7715 34.37	2325 10.36	5455 24.30



Typical THA422 Top Flange Installation on a 4x2 Floor Truss



Typical THA Top Flange Nailing Configuration on a 4x Nailer (except THA29)



1. Factored uplift resistances have been increased 15% for earthquake or wind loading with no further increase allowed; reduce for other load durations as required by code.
2. For single 4x2 top chord carrying members, THA 4x hangers can be used with 10dx1 1/2" nails and a reduced resistance to 0.83 of the table value. Values are based on hanger installations at panel points.

3. For the THA2X models, one strap may be installed vertically according to the face mount nailing requirements and the other strap wrapped over the top chord according to the top flange nailing requirements (see drawing on page 126) and achieve full tabulated top flange installation downloads.
4. NAILS: 16d = 0.162" dia. x 3 1/2" long, 16dx2 1/2 = 0.162" dia. x 2 1/2" long, 10d = 0.148" dia. x 3" long, 10dx1 1/2 = 0.148" dia. x 1 1/2" long. See page 16-17 for other nail sizes and information.