

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.

THA4x and THA2x-2 models feature a dense nail pattern in the straps, which provides more installation options and allows for easy top flange installation.

Material: See table

Finish: Galvanized. Some products available in ZMAX® coating; see Corrosion Information, pp. 15–18.

Installation:

- Use all specified fasteners; see General Notes.

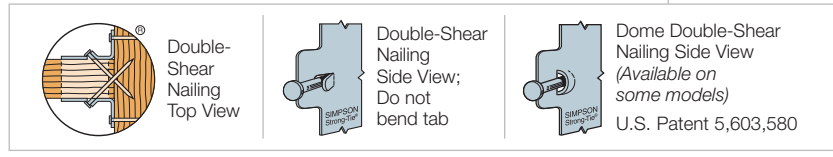
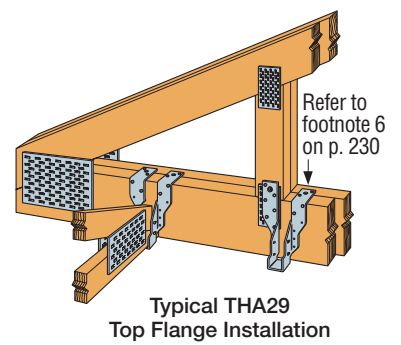
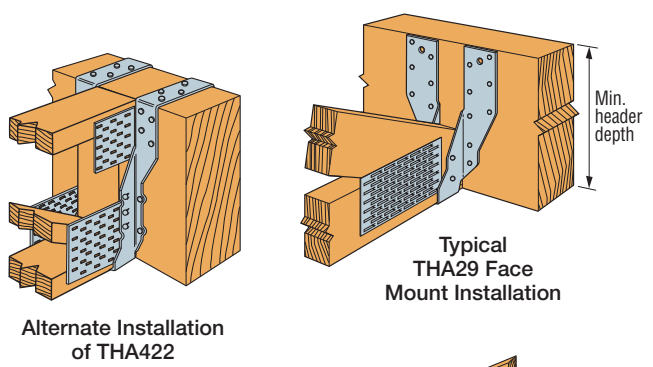
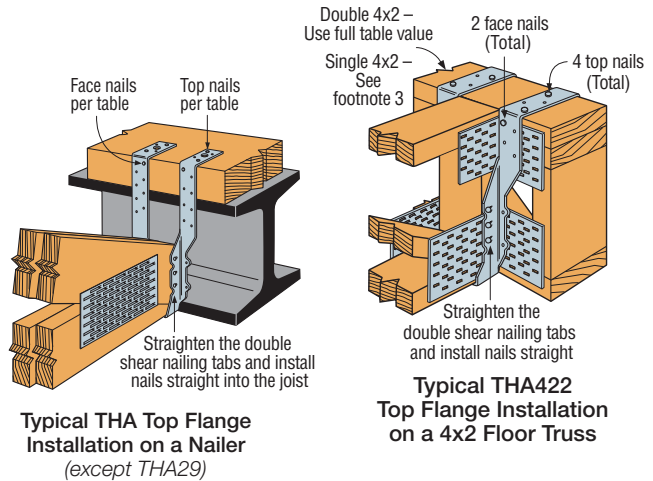
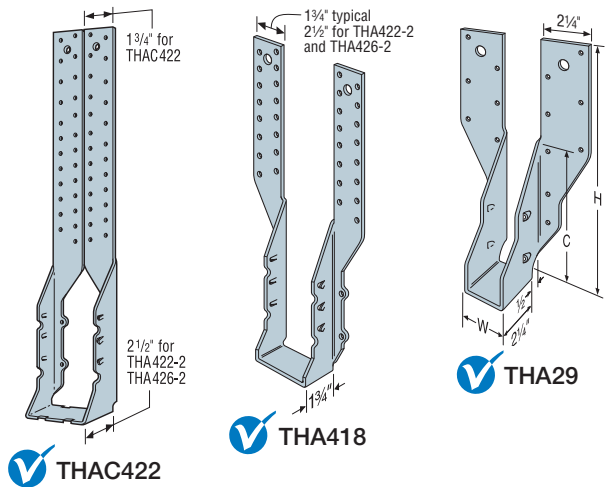
The following installation methods may be used:

- **Top Flange Installation** — The straps must be field formed over the header — see table for minimum top flange requirements. Install top and face nails according to the table. Top nails shall not be within 1/4" 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 four 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.
- **Alternate Installation** — The THA 4x hangers may be installed in a top flange configuration using the tabulated fasteners for face-mount installation and achieve the face-mount installation loads. Install the tabulated face nails into the face and top of the carrying member. 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.
- **Uplift** — Lowest face nails must be filled to achieve uplift loads.

Options:

- THA hangers available with the header flanges turned in for 3 5/8" (except THA413) and larger, with no load reduction — order THAC hanger.

Codes: See p. 14 for Code Reference Key Chart



Plated Truss Connectors

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THA/THAC

Adjustable Truss Hangers (cont.)

These products are available with additional corrosion protection. For more information, see p. 18.

Model No.	Ga.	Dimensions (in.)				Min. ⁵ Top Flange	Min. Header Depth	Fasteners				DF/SP Allowable Loads					SPF/HF Allowable Loads					Code Ref.
		W	H	C	Carrying Member			Carried Member		Uplift (160)	Floor (100)	Snow (115)	Roof (125)	Wind (160)	Uplift (160)	Floor (100)	Snow (115)	Roof (125)	Wind (160)			
					Top			Face	Straight											Slant		
Top-Flange Installation³																						
THA29	18	1½	9¼	5½	27/16	—	(4) 10d	(4) 10d	—	(4) 10d	560	2,260	2,310	2,350	2,350	480	1,740	1,785	1,815	1,815	18, L15, FL	
THA213	18	1½	13¾	5½	1½	—	(4) 10d	(2) 10d	(4) 10d x 1½"	—	—	1,615	1,615	1,615	1,615	—	1,280	1,280	1,280	1,280		
THA218	18	1½	17¾	5½	2	—	(4) 10d	(2) 10d	(4) 10d x 1½"	—	—	1,615	1,615	1,615	1,615	—	1,280	1,280	1,280	1,280		
THA218-2	16	3½	17¼	8	2	—	(4) 16d	(2) 16d	(6) 10d	—	—	2,245	2,245	2,245	2,245	—	1,935	1,935	1,935	1,935		
THA222-2	16	3½	22¾	8	2	—	(4) 16d	(2) 16d	(6) 10d	—	—	2,245	2,245	2,245	2,245	—	1,935	1,935	1,935	1,935		
THA413	18	3%	13¾	4½	1½	—	(4) 10d	(2) 10d	(4) 10d	—	—	1,615	1,615	1,615	1,615	—	1,280	1,280	1,280	1,280		
THA418	16	3%	17½	7¾	2	—	(4) 16d	(2) 16d	(6) 10d	—	—	2,245	2,245	2,245	2,245	—	1,935	1,935	1,935	1,935		
THA422	16	3%	22	7¾	2	—	(4) 16d	(2) 16d	(6) 10d	—	—	2,245	2,245	2,245	2,245	—	1,935	1,935	1,935	1,935		
THA426	14	3%	26	7¾	2	—	(4) 16d	(4) 16d	(6) 16d	—	—	2,435	2,435	2,435	2,435	—	2,095	2,095	2,095	2,095		FL
THA422-2	14	7¼	22¼	9¾	2	—	(4) 16d	(4) 16d	(6) 16d	—	—	3,330	3,330	3,330	3,330	—	2,865	2,865	2,865	2,865		FL,170
THA426-2	14	7¼	26¼	9¾	2	—	(4) 16d	(4) 16d	(6) 16d	—	—	3,330	3,330	3,330	3,330	—	2,865	2,865	2,865	2,865	FL,170	
Face-Mount Installation⁴																						
THA29	18	1½	9¼	5½	—	9¼	—	(16) 10d	—	(4) 10d	560	2,125	2,310	2,350	2,350	480	1,740	1,785	1,815	1,815	18, L15, FL	
THA213	18	1½	13¾	5½	—	13¾	—	(14) 10d	—	(4) 10d	1,170	1,955	2,020	2,065	2,065	780	1,680	1,735	1,775	1,775		
THA218	18	1½	17¾	5½	—	17¾	—	(18) 10d	—	(4) 10d	1,170	1,955	2,020	2,065	2,065	780	1,680	1,735	1,775	1,775		
THA218-2	16	3½	17¼	8	—	14¼	—	(22) 16d	—	(6) 16d	1,855	3,695	3,695	3,695	3,695	1,595	3,185	3,185	3,185	3,185		
THA222-2	16	3½	22¾	8	—	14¼	—	(22) 16d	—	(6) 16d	1,855	3,695	3,695	3,695	3,695	1,595	3,185	3,185	3,185	3,185		
THA413	18	3%	13¾	4½	—	13%	—	(14) 10d	—	(4) 10d	1,170	1,940	2,235	2,400	2,400	780	1,660	1,910	2,075	2,210		
THA418	16	3%	17½	7¾	—	14¼	—	(22) 16d	—	(6) 16d	1,855	3,695	3,695	3,695	3,695	1,595	3,185	3,185	3,185	3,185		
THA422	16	3%	22	7¾	—	14¼	—	(22) 16d	—	(6) 16d	1,855	3,695	3,695	3,695	3,695	1,595	3,185	3,185	3,185	3,185		
THA426	14	3%	26	7¾	—	16¼	—	(30) 16d	—	(6) 16d	1,855	4,480	4,480	4,480	4,480	1,595	3,855	3,855	3,855	3,855		FL
THA422-2	14	7¼	22¼	9¾	—	16¾	—	(30) 16d	—	(6) 16d	1,855	5,160	5,520	5,520	5,520	1,595	4,440	4,745	4,745	4,745		FL,170
THA426-2	14	7¼	26¼	9¾	—	18	—	(38) 16d	—	(6) 16d	1,855	5,520	5,520	5,520	5,520	1,595	4,745	4,745	4,745	4,745	FL,170	

- Uplift has been increased 60% for wind or earthquake loading with no further increase allowed; reduce where other loads govern.
- Wind (160) is a download rating.
- For single 4x2 top chord carrying members or single 2x nailers, the following THA hangers can be installed using 10d x 1½" top nails and (2) 16d face nails with reduced allowable loads as noted:
THA418/THA422: 1,415 lb. for DF/SP, 1,215 lb. for SPF; THA426: 2,245 lb. for DF/SP, 1,930 lb. for SPF;
THA422-2/THA426-2: 2,345 lb. for DF/SP, 2,015 lb. for SPF. Loads are based on hanger installations at panel points.
- Face-mount installation loads are based on minimum of 2-ply 2x carrying member. For single 2x carrying members, use 10d x 1½" nails into the carrying member and tabulated fasteners into the carried member, and use 0.80 of the table value for 18 gauge, and 0.68 of the table value for 16 gauge and 14 gauge.
- Min. Top Flange refers to the minimum length of strap that must be field formed over the header.
- For the THA 2x models, one strap may be installed vertically according to the face mount nailing requirements and the other strap wrapped over the truss chord according to the top flange nailing requirements (see drawing on p. 229) and achieve full tabulated top flange installation loads.
- Nails:** 16d = 0.162" dia. x 3½" long, 10d = 0.148" dia. x 3" long, 10d x 1½" = 0.148" dia. x 1½" long. See pp. 26–27 for other nail sizes and information.