

THA/THAC/THAR/L 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' extra long straps allow full code nailing and can be field-formed to give top flange hanger convenience.

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

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.

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.

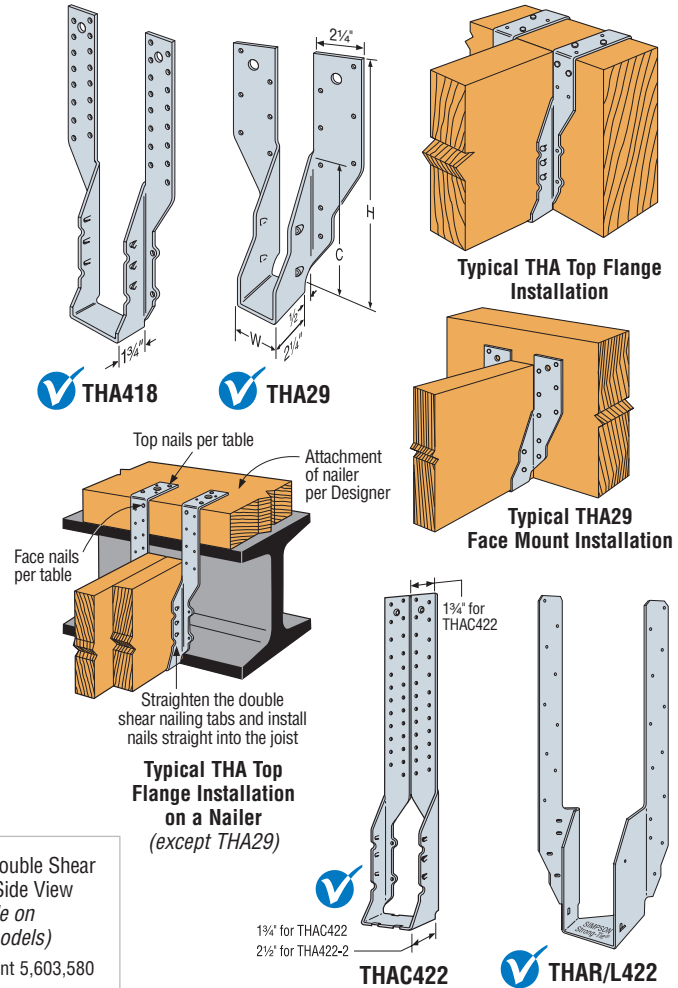
For the THA29, nails used for joist attachment must be driven at an angle so that they penetrate through the corner of the joist and into the header. For all other top flange installations, straighten the double shear nailing tabs and install the nails straight into the joist.

• **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 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.

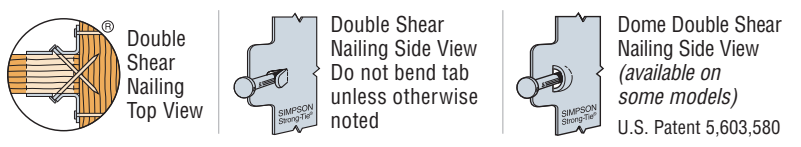
• **Alternate Installation**—The THA 4x hangers may be installed in a top flange configuration using the tabulated fasteners for face mount installation and achieve the face mount installation loads. Install the tabulated face nails into the face and top of the carrying member. Nails used for the joist attachment must be driven at an angle so that they penetrate through the corner of the joist into the header.

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

CODES: See page 12 for Code Reference Key Chart.



Solid Sawn Lumber Connectors



These products are available with additional corrosion protection. Additional products on this page may also be available with this option, check with Simpson Strong-Tie for details.

Minimum Carried Member	Model No.	Ga	Dimensions				Min. ⁷ Top Flange	Min. Header Depth	Fasteners ¹				DF/SP Allowable Loads ⁴				SPF/HF Allowable Loads ⁴				Code Ref.
			W	H	C	Top			Face	Straight	Slant	Uplift ² (160)	Floor (100)	Snow (115)	Roof (125)	Uplift ² (160)	Floor (100)	Snow (115)	Roof (125)		
			Carrying Member		Carried Member				Uplift ² (160)		Uplift ² (160)		Uplift ² (160)		Uplift ² (160)		Uplift ² (160)				
TOP FLANGE INSTALLATION																					
2x4	THA29	18	1 5/8	9 1/16	5/8	2 7/16	—	4-10d	4-10d	—	4-10d	560	2260	2310	2350	480	1740	1785	1815	18, L1, F7	
2x6	THA213	18	1 5/8	13 3/16	5 1/2	1 1/2	—	4-10d	2-10d	4-10dx1 1/2	—	—	1615	1615	1615	—	1280	1280	1280		
2x6	THA218	18	1 5/8	17 3/16	5 1/2	2	—	4-10d	2-10d	4-10dx1 1/2	—	—	1615	1615	1615	—	1280	1280	1280		
(2) 2x10	THA218-2	16	3 3/8	17 1/16	8	2	—	4-16d	2-16d	6-10d	—	—	2250	2250	2250	—	1935	1935	1935		
(2) 2x10	THA222-2	16	3 3/8	22 3/16	8	2	—	4-16d	2-16d	6-10d	—	—	2250	2250	2250	—	1935	1935	1935		
4x6	THA413	18	3 3/8	13 3/16	4 1/2	1 1/2	—	4-10d	2-10d	4-10d	—	—	1615	1615	1615	—	1280	1280	1280		
4x10	THA418	16	3 3/8	17 1/2	7 7/8	2	—	4-16d	2-16d	6-10d	—	—	2250	2250	2250	—	1935	1935	1935		
4x10	THA422	16	3 3/8	22	7 7/8	2	—	4-16d	2-16d	6-10d	—	—	2250	2250	2250	—	1935	1935	1935		
4x10	THA426	14	3 3/8	26	7 7/8	2	—	4-16d	4-16d	6-16d	—	—	2435	2435	2435	—	2095	2095	2095		
4x10	THAR/L422	16	3 3/8	22 5/8	8	2 1/2	—	4-10d	2-10d	1-10d	2-10dx1 1/2	—	1090	1090	1090	—	915	915	915		
4x10	THAR/L422	16	3 3/8	22 5/8	8	2 1/2	—	4-10d	8-10d	1-10d	2-10dx1 1/2	310	1675	1675	1675	260	1405	1405	1405		
FACE MOUNT INSTALLATION																					
2x4	THA29	18	1 5/8	9 1/16	5/8	—	9 1/16	—	16-10d	—	4-10d	560	2125	2310	2350	480	1740	1785	1815	18, L1, F7	
2x6	THA213	18	1 5/8	13 3/16	5 1/2	—	13 3/16	—	14-10d	—	4-10d	930	1795	1840	1870	780	1385	1425	1450		
2x6	THA218	18	1 5/8	17 3/16	5 1/2	—	17 3/16	—	18-10d	—	4-10d	930	1795	1840	1870	780	1385	1425	1450		
(2) 2x10	THA218-2	16	3 3/8	17 1/16	8	—	14 1/16	—	22-16d	—	6-16d	1855	3705	3705	3705	1595	3185	3185	3185		
(2) 2x10	THA222-2	16	3 3/8	22 3/16	8	—	14 1/16	—	22-16d	—	6-16d	1855	3705	3705	3705	1595	3185	3185	3185		
4x6	THA413	18	3 3/8	13 3/16	4 1/2	—	13 3/8	—	14-10d	—	4-10d	930	1940	2235	2400	780	1660	1910	2075		
4x10	THA418	16	3 3/8	17 1/2	7 7/8	—	14 1/16	—	22-16d	—	6-16d	1855	3705	3705	3705	1595	3185	3185	3185		
4x10	THA422	16	3 3/8	22	7 7/8	—	14 1/16	—	22-16d	—	6-16d	1855	3705	3705	3705	1595	3185	3185	3185		
4x10	THA426	14	3 3/8	26	7 7/8	—	16 1/16	—	30-16d	—	6-16d	1855	4550	4550	4550	1595	3915	3915	3915		

- 16d sinkers may be used to replace 16d commons at 0.85 of table load.
- Uplift has been increased 60% for wind or earthquake loading with no further increase allowed; reduce where other loads govern.
- Roof loads are 125% of floor loads unless limited by other criteria.
- THAR/L422 with 4-10d top nails and 2-10d face nails: When the hanger height is between 9" to 12", the allowable download is 1440 lbs. for DFL and 1210 lbs. for SPF. No further increase allowed.
- For top flange installation on a nailer (see detail above), install joist nails straight by bending the double shear tabs.
- For single 2x nailers, the following THA hangers can be installed using 10dx1 1/2" top nails and 2-16d face nails with reduced allowable loads as noted: 1415 lbs. for THA418 and THA422, and 2255 lbs. for THA426.
- Min. Top Flange refers to the minimum length of strap that must be field-formed over the header.
- 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.