

THASR/L

Adjustable/Skewable Truss Hangers

The THASR/L hangers combine the height adjustability of THA hangers with field skewability, offering maximum flexibility for the installer, and eliminating the need for special orders. Shipped at 22½° right or left, the THASR/L hangers can be field skewed from 22½° to 75° (up to 85° for the THASR/L29 and THASR/L29-2).

Features:

- The THASR/L single and two-ply versions have straps 9" tall. The 4x version has 22" straps to fit more parallel-chord truss applications.
- The versions have only one acute side bend line to ease design and installation.
- Joist fasteners are only required from one side for skews greater than 22½°.
- Rated for installation with either nails or Strong-Drive® SD Connector screws.

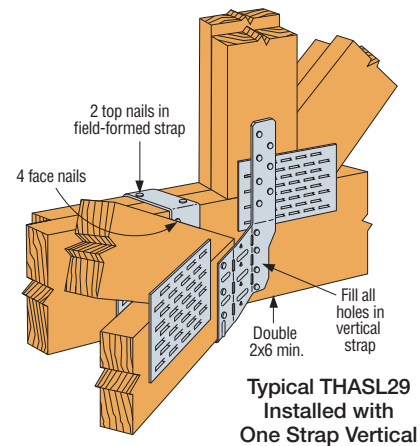
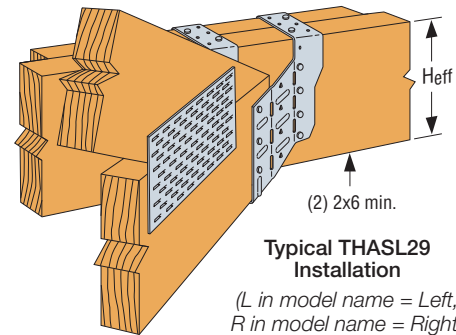
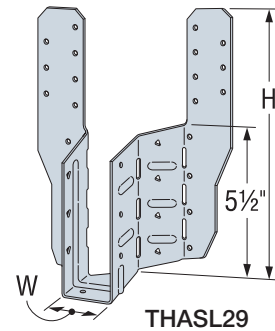
Material: 16 gauge

Finish: Galvanized

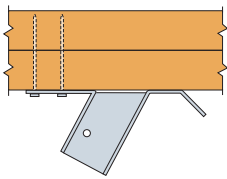
Installation:

- Use all specified fasteners; see General Notes.
- Product is factory skewed to 22½° and may be field skewed from 22½° to 75° (up to 85° for the THASR/L29 and THASR/L29-2). See Installation Sequence below for skews greater than 22½°.
- For 22½° skew installations, fill all triangle holes. Triangle holes do not need to be filled for skews greater than 22½°.
- For all installations, fill the fastener hole(s) in the bottom of the hanger seat (THASR/L29 has one and all other models have two).
- For top-flange installations, the straps must be field-formed over the header a minimum of 2".
- THASR/L29 and THASR/L29-2 — For installations where either strap cannot be field-formed over the header, install the strap(s) vertical and fill all holes. Loads must be reduced as noted in the table footnotes.
- THASR/L422 — For face-mount installations, install the carrying member fasteners into the lowest holes.

Codes: See p. 11 for Code Reference Key Chart

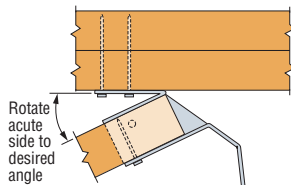


Installation Sequence for Skews > 22½°



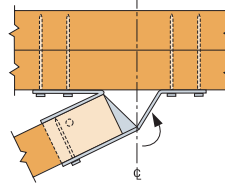
Step 1

Install acute side top and/or face header fasteners.



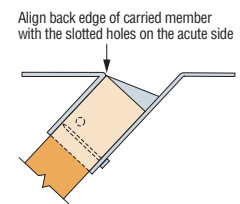
Step 2

Utilizing a piece of scrap fastened to the hanger (on obtuse side only), bend the hanger along the acute side bend line to the desired angle.



Step 3

Bend the obtuse side of the hanger back toward the header until the narrow nailing flange lies flat against the header, and install obtuse side header top and/or face fasteners.



Step 4

Install joist/truss and install the carried member fasteners on the obtuse side and seat only.

THASR/L

Adjustable/Skewable Truss Hangers (cont.)

These products are available with additional corrosion protection. For more information, see p. 14.

SD Many of these products are approved for installation with Strong-Drive® SD Connector screws. See pp. 348–352 for more information.

Allowable Loads for Installation with Nails

Min. Carried Member	Model No.	Dim. (in.)		Min. Heff	Skew (Degree)	Fasteners (in.)			DF/SP Allowable Loads					SPF/HF Allowable Loads					Code Ref.
		W	H			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												
Top-Flange Installation																			
2x truss	THASR/L29	1%	9%	5½"	22½°	(4) 0.148 x 3	(8) 0.148 x 3	(7) 0.148 x 1½"	795	1,975	1,975	1,975	1,975	685	1,695	1,700	1,700	1,700	
					23 to 74	(4) 0.148 x 3	(8) 0.148 x 3	(4) 0.148 x 1½"	385	1,485	1,485	1,485	1,485	330	1,275	1,275	1,275	1,275	
					75 to 85	(4) 0.148 x 3	(8) 0.148 x 3	(4) 0.148 x 1½"	410	1,850	1,895	1,895	1,895	355	1,380	1,420	1,445	1,545	
2-2x truss	THASR/L29-2	3%	9%	5½"	22½°	(4) 0.148 x 3	(8) 0.148 x 3	(8) 0.148 x 3	825	1,660	1,660	1,660	1,660	710	1,425	1,425	1,425	1,425	
					23 to 45	(4) 0.148 x 3	(8) 0.148 x 3	(5) 0.148 x 3	295	1,285	1,285	1,285	1,285	255	1,105	1,105	1,105	1,105	
					46 to 85	(4) 0.148 x 3	(8) 0.148 x 3	(5) 0.148 x 3	260	1,285	1,285	1,285	1,285	225	1,105	1,105	1,105	1,105	
4x truss	THASR/L422	3%	22	8"	22½°	(4) 0.148 x 3	(4) 0.148 x 3	(8) 0.148 x 3	—	1,115	1,115	1,115	1,115	—	960	960	960	960	
					23 to 45	(4) 0.148 x 3	(4) 0.148 x 3	(5) 0.148 x 3	—	925	925	925	925	—	795	795	795	795	
					46 To 75	(4) 0.148 x 3	(4) 0.148 x 3	(5) 0.148 x 3	—	745	745	745	745	—	640	640	640	640	
Face-Mount Installation																			
4x truss	THASR/L422	3%	22	5½"	22½°	—	(8) 0.148 x 3	(8) 0.148 x 3	—	810	810	810	810	—	700	700	700	700	
					23 to 45	—	(8) 0.148 x 3	(5) 0.148 x 3	—	730	730	730	730	—	625	625	625	625	
					46 to 75	—	(8) 0.148 x 3	(5) 0.148 x 3	—	730	730	730	730	—	625	625	625	625	

Allowable Loads for Installation with Strong-Drive® SD Connector Screws

Min. Carried Member	Model No.	Dim. (in.)		Min. Heff	Skew (Degree)	Fasteners (in.)			DF/SP Allowable Loads					SPF/HF Allowable Loads					Code Ref.
		W	H			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												
Top-Flange Installation																			
2x truss	THASR/L29	1%	9%	5½"	22½°	(4) #9x2½" SD	(8) #9x2½" SD	(7) #9x1½" SD	1,085	2,510	2,665	2,765	2,790	935	1,735	1,835	1,905	2,140	
					23 to 45	(4) #9x2½" SD	(8) #9x2½" SD	(4) #9x1½" SD	660	1,995	2,075	2,125	2,220	540	1,400	1,450	1,485	1,600	
					46 to 85	(4) #9x2½" SD	(8) #9x2½" SD	(4) #9x1½" SD	535	1,995	2,075	2,125	2,220	460	1,400	1,450	1,485	1,600	
2-2x truss	THASR/L29-2	3%	9%	5½"	22½°	(4) #9x2½" SD	(8) #9x2½" SD	(8) #9x2½" SD	1,450	2,745	2,745	2,745	2,745	1,075	2,360	2,360	2,360	2,360	
					23 to 45	(4) #9x2½" SD	(8) #9x2½" SD	(5) #9x2½" SD	530	1,915	1,915	1,915	1,915	455	1,645	1,645	1,645	1,645	
					46 to 85	(4) #9x2½" SD	(8) #9x2½" SD	(5) #9x2½" SD	665	1,530	1,530	1,530	1,530	540	1,315	1,315	1,315	1,315	
4x truss	THASR/L422	3%	22	8"	22½°	(4) #9x2½" SD	(4) #9x2½" SD	(8) #9x2½" SD	—	1,140	1,140	1,140	1,140	—	980	980	980	980	
					23 to 45	(4) #9x2½" SD	(4) #9x2½" SD	(5) #9x2½" SD	—	1,065	1,065	1,065	1,065	—	915	915	915	915	
					46 to 75	(4) #9x2½" SD	(4) #9x2½" SD	(5) #9x2½" SD	—	870	870	870	870	—	750	750	750	750	
Face-Mount Installation																			
4x truss	THASR/L422	3%	22	5½"	22½°	—	(8) #9x2½" SD	(8) #9x2½" SD	—	1,600	1,720	1,720	1,720	—	895	1,030	1,120	1,435	
					23 to 45	—	(8) #9x2½" SD	(5) #9x2½" SD	—	1,330	1,330	1,330	1,330	—	895	1,030	1,120	1,145	
					46 to 75	—	(8) #9x2½" SD	(5) #9x2½" SD	—	1,330	1,330	1,330	1,330	—	895	1,030	1,120	1,145	

- Uplift loads have been increased for earthquake or wind loading with no further increase allowed. Reduce where other loads govern.
- Wind (160) is a download rating.
- Minimum carried member heel height shall be 4½".
- H_{eff} is the distance from the top of the hanger seat to the top of the carrying member.
- For tabulated top-flange installation loads, the straps must be wrapped over the header a minimum of 2". Allowable downloads for the THASR/L29 and THASR/L29-2 with one or both straps installed vertically (all holes filled) are 90% of the tabulated downloads for skewers greater than 22½° and 85% of the tabulated downloads for 22½° skewers. Allowable uplift capacities are 100% of the tabulated uplift load capacities.
- Allowable downloads for 75°–85° skewers with one or both straps installed vertically (with all holes filled) shall be limited to 75% of these loads.
- Fasteners:** Nail dimensions are listed diameter by length. SD screws are Simpson Strong-Tie® Strong-Drive SD Connector screws. See pp. 21–22 for fastener information.