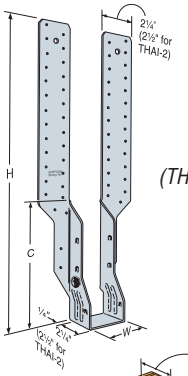
THAI *I-Joist & Structural Composite Lumber Hangers*

Designed for I-joists, the THAI has extra long straps and can be field-formed to give height adjustability and top flange hanger convenience. Positive angle nailing helps eliminate splitting of the I-joist's bottom flange.

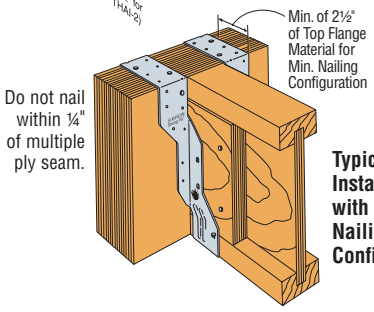
MATERIAL: THAI-2–14 gauge; all others–18 gauge **FINISH:** Galvanized

INSTALLATION:
- Use all specified fasteners. Verify that the header can take the fasteners specified in the table.
- Web stiffeners are required for all I-joists used with these hangers.
- When a total of 20 face nails are used in THAI straps, or 30 face nails are used in THAI-2 straps, the maximum load-carrying capacity is achieved.
- Reduce load given by allowable nail shear capacity for each nail less than maximum.
- A minimum nailing configuration is shown for top nailing installations. The strap must be field-formed over the top of the header by a minimum of 2½".

CODES: See page 12 for Code Reference Key Chart.



THAI
(THAI-2 similar)



Typical THAI Installation with Minimum Nailing Configuration

Joist Dimensions		Model No.	Hanger Dimensions			Code Ref.
Width	Depth		W[1]	H	C	
1½	9¼ - 14"	THAI222	1⁹⁄₁₆	22⅞	9⅜	I8, L5, F7
1¾	9¼ - 14"	THAI1.81/22	1¹³⁄₁₆	22¾	9¼	I8, L5
2	9¼ - 14"	THAI2.06/22	2¹⁄₁₆	22⅝	9⅛	I8, L5, F7
2¹⁄₁₆	9¼ - 14"	THAI2.1/22	2⅛	22⁹⁄₁₆	9⅛	
2¼ to 2⁵⁄₁₆	9¼ - 14"	THAI3522	2⁵⁄₁₆	22½	9	
2½	9¼ - 14"	THAI322	2⁹⁄₁₆	22⅜	8⅞	
3½	9¼ - 14"	THAI422	3⁹⁄₁₆	21⅞	8⅜	
3 to 5¼	9¼ - 14"	THAI-2	3⅛ to 5⁵⁄₁₆	21¹¹⁄₁₆	8¹³⁄₁₆	

1. The W dimension should be ordered at ¹⁄₁₆" to ⅛" greater than the joist width.

Nailing Options	Fasteners			Uplift (160)	Allowable Loads								
					LVL Header			DF/SP Header			SPF/HF Header		
	Top	Face	Joist		Floor (100)	Snow (115)	Roof (125)	Floor (100)	Snow (115)	Roof (125)	Floor (100)	Snow (115)	Roof (125)
THAI Minimum	4-10dx1½	2-10dx1½	2-10dx1½	—	1400	1400	1400	1400	1400	1400	1060	1060	1060
	4-10d	2-10d	2-10dx1½	—	1715	1715	1715	1835	1835	1835	1590	1590	1590
THAI Maximum	—	20-10d	2-10dx1½	215	2200	2200	2200	2200	2200	2200	1920	2200	2200
THAI-2 Minimum	4-10d	2-10d	2-10dx1½	—	2020	2020	2020	2020	2020	2020	2020	2020	2020
THAI-2 Maximum	—	30-10d	2-10dx1½	215	3390	3900	4135	3390	3900	4135	2940	3310	3310

1. Uplift loads are based on DF/SP lumber and have been increased 60% for wind or earthquake loading with no further increase allowed. For normal loading applications such as cantilever construction refer to Simpson Strong-Tie Connector® Selector™ software or conservatively divide the uplift load by 1.6. For SPF/HF use 0.86 x DF/SP uplift load.
2. Roof loads are 125% of floor loads unless limited by other criteria.
3. The minimum header depth to achieve the maximum nail configuration is 16".
4. **For the THAI3522 supporting a 2¼" joist, the download shall be the lesser of the table load or 1400 lbs.**
5. **NAILS:** 10d = 0.148" dia. x 3" long, 10dx1½ = 0.148" dia. x 1½" long. See page 16-17 for other nail sizes and information

LGU/MGU/HGU/HHGU *High Capacity Girder Hangers*

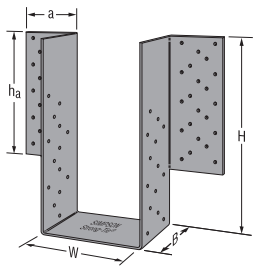
The GU hangers are a high-capacity girder hangers designed for situations where the header and joist are flush at top. This part can be used for retrofit on the framing members after they are temporarily placed in position. It uses Simpson Strong-Tie® Strong-Drive® screws (SDS) to make installation fast and easy, with no pre-drilling required.

MATERIAL: See table **FINISH**: Galvanized, HHGU—Simpson Strong-Tie® gray paint

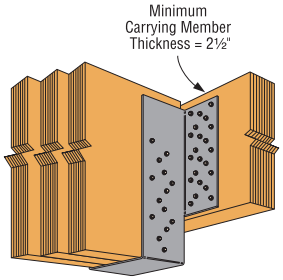
INSTALLATION:
- Use all specified fasteners. See General Notes.
- Install with Simpson Strong-Tie SDS ¼"x2½" screws, which are provided with the GU's. *(Note: lag screws will not achieve the same loads.)*
- All multiple members must be fastened together to act as a single unit.
- Multiple member headers may require additional fasteners at the hanger locations. The quantity and location of the additional fasteners must be determined by the Designer.

OPTIONS:
- Hot-dip galvanized available. Order as "X" version, specify HDG.
- Other seat widths available. Order as "X" version, specify width.
- See Hanger Options, pages 181-183, for one flange concealed option *(all models except MGU3.63)*.

CODES: See page 12 for Code Reference Key Chart.



HHGU



Typical HHGU Installation

Actual Carried Beam Width	Model No.	Ga	Dimensions					Fasteners		Allowable Loads				Code Ref.
			W	H[2] (min)	B	h_a[3]	a	Face	Joist	DF/SP		SPF/HF		
										Uplift 160	Download 100/115/125	Uplift 160	Download 100/115/125	
3½	LGU3.63-SDS	10	3⅝	8	4½	7⅜	3¼	16-SDS ¼"x2½"	12-SDS ¼"x2½"	5555	6720	4000	4840	F23
3½	MGU3.63-SDS	10	3⅝	9¼	4½	8⅝	4	24-SDS ¼"x2½"	16-SDS ¼"x2½"	7260	9450	5225	6805	
5¼	MGU5.50-SDS	10	5½	9¼	4½	8⅝	4	24-SDS ¼"x2½"	16-SDS ¼"x2½"	7260	9450	5225	6805	
5¼	HGU5.50-SDS	7	5½	11	5¼	10⅜	4¾	36-SDS ¼"x2½"	24-SDS ¼"x2½"	9895	14145	7125	10185	
5¼	HHGU5.50-SDS	3	5½	13	5¼	12⅜	4¾	44-SDS ¼"x2½"	28-SDS ¼"x2½"	14550	17845	10475	12850	
7	HGU7.25-SDS	7	7¼	11	5¼	10⅜	4¾	36-SDS ¼"x2½"	24-SDS ¼"x2½"	9895	14145	7125	10185	
7	HHGU7.25-SDS	3	7¼	13	5¼	12⅜	4¾	44-SDS ¼"x2½"	28-SDS ¼"x2½"	14550	17845	10475	12850	

1. Uplift loads have been increased for earthquake and wind loading, with no further increase allowed.
2. Specify H dimension. Maximum H = 30".
3. Header height must be at least as tall as flange height (h_a).