LSSR™/LSU

Slopeable/Skewable Rafter Hanger

VALUE ENGINEERED ✓

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 patent-pending LSSR slopeable/skewable rafter hanger is the next generation of field-adjustable rafter hangers. One of its key features is it can be installed after the rafter has been tacked into place. A versatile hanger, it is field adjustable for skews up to 45° and features an innovative hinged swivel seat which adjusts up to a 45° slope. New models are now available for single 2x truss members. See pp. 122–123 for more information.

Features:
• Makes it possible to install after the rafters are already in place
• Flange design allows for easy skew (left or right) adjustment, from 0° to 45°
• Swivel seat adjusts easily from 0° to 45° up or down, and attaches to both sides of I-joist

Material: See table on p. 167

Finish: ZMAX® coating

Installation:
• Use all specified fasteners; see General Notes
• Limit on-center spacing of rafters and joists with LSSR210-2Z and LSSR410Z to 14" o.c., minimum; for the LSSR1.81Z, LSSR2.1Z, LSSR2.37Z and LSSR2.56Z, limit the on-center spacing to 11" o.c., minimum
• For a common rafter:
  – Slide hanger into position; Adjust seat and install seat nails
  – Make sure side stirrups are snug close to the joist; bend lines are plumb
  – Install a face nail on each side to hold in place
  – Install all round and obround holes on the header and joist
• For jack rafters:
  – Fold acute side forward
  – Slide hanger into position; adjust seat and install seat nails
  – Make sure hanger is snug close to the joist; bend line is plumb
  – Install obround nails on acute side, both header and joist
  – Make sure hanger is snug close to the joist and header; bend line is plumb
  – Install joist nails on obtuse side
  – Bend obtuse side flange back so that header flange is flush against header
  – Install header nails
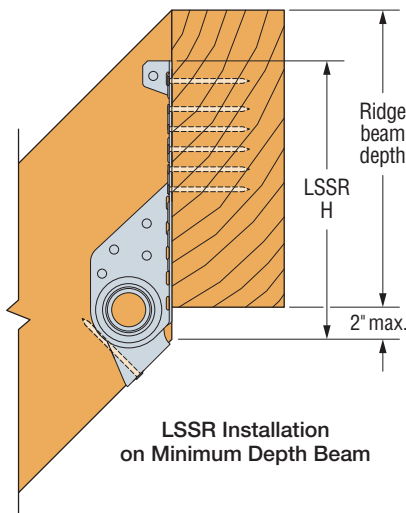
Codes: See p. 13 for Code Reference Key Chart

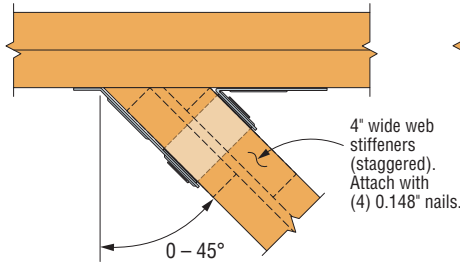**Web Applications:** Visit **app.strongtie.com/hs** to access our Hanger Selector web application.

HS Hanger Selector
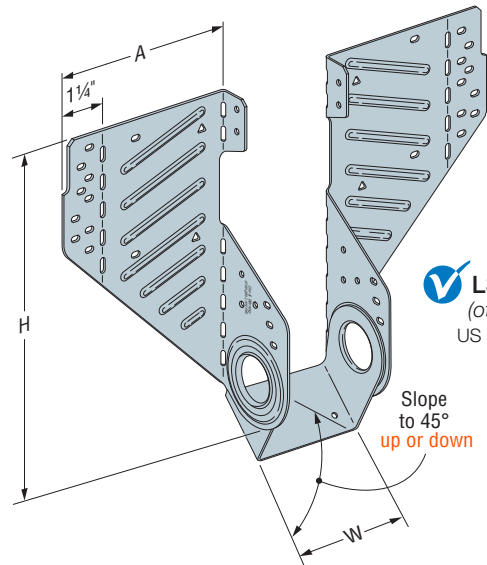
✓ LSSR210-2
(others similar)
US Patent Pending

Slope to 45° up or down
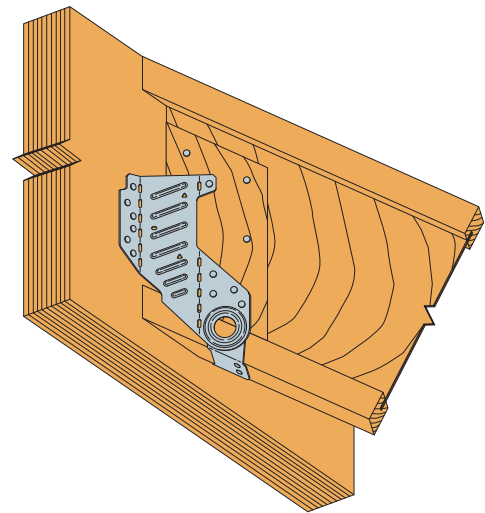
Typical LSSR Sloped Down and Skewed Right Installation
(can be skewed left or right)

LSSR Installation on Minimum Depth Beam

Ridge beam depth

LSSR H

2" max.

0 – 45°

4" wide web stiffeners (staggered). Attach with (4) 0.148" nails.

Typical LSSR Installation
(compound miter cut)

3" wide web stiffeners. Attach with (4) 0.148" nails.
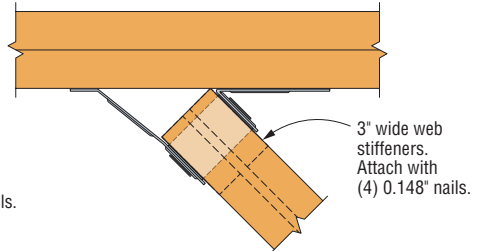
Alternate LSSR Installation
(plumb cut)

▶ To watch an installation video, go to **strongtie.com/lssr**.

LSSR™/LSU

Slopeable/Skewable Rafter Hanger (cont.)
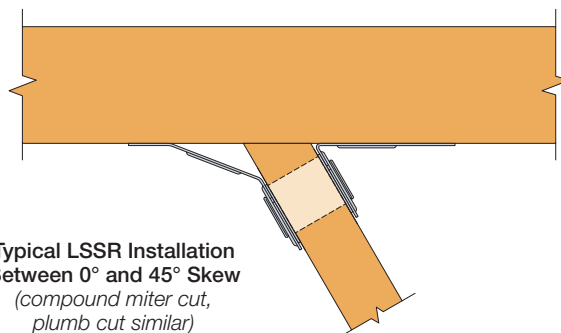
■ These products are available with additional corrosion protection. For more information, see p. 16.

Actual Joist Width (in.)	Model No.	Ga.	Dimensions (in.)			Fasteners (in.)		Allowable Loads								Code Ref.
			W	H	A	Face	Joist	DF/SP Species Header				SPF/HF Species Header				
								Uplift (160)	Floor (100)	Roof		Uplift (160)	Floor (100)	Roof		
										Snow (115)	Const. (125)			Snow (115)	Const. (125)	
Sloped Only Hangers																
1¾	LSSR1.81Z	18	1¹³⁄₁₆	8¹⁵⁄₁₆	4⅛	(14) 0.148 x 2½	(12) 0.148 x 1½	510	1,565	1,565	1,565	440	1,345	1,345	1,345	IBC®, FL, LA
2 to 2¹⁄₁₆	LSSR2.1Z	18	2⅛	8¹⁵⁄₁₆	4⅛	(14) 0.148 x 2½	(12) 0.148 x 1½	510	1,565	1,565	1,565	440	1,345	1,345	1,345	
2⁵⁄₁₆	LSSR2.37Z	18	2⅜	8¹⁵⁄₁₆	4⅛	(14) 0.148 x 2½	(12) 0.148 x 1½	510	1,565	1,565	1,565	440	1,345	1,345	1,345	
2½	LSSR2.56Z	18	2⁹⁄₁₆	8¹⁵⁄₁₆	4⅛	(14) 0.148 x 2½	(12) 0.148 x 1½	510	1,565	1,565	1,565	440	1,345	1,345	1,345	
3	LSSR210-2Z	16	3⅛	8¹⁵⁄₁₆	5⅛	(22) 0.162 x 2½	(18) 0.162 x 2½	695	2,365	2,365	2,365	600	2,035	2,035	2,035	
3½	LSSR410Z	16	3⅜	8¹⁵⁄₁₆	5⅛	(22) 0.162 x 2½	(18) 0.162 x 2½	695	2,365	2,365	2,365	600	2,035	2,035	2,035	
Dbl 2	LSU4.12	14	4⅛	9	2¼	(24) 0.162 x 3½	(16) 0.148 x 1½	1,150	3,215	3,700	4,020	990	2,785	3,200	3,480	—
Dbl 2¹⁄₁₆	LSU4.28	14	4¼	9	2⅜	(24) 0.162 x 3½	(16) 0.148 x 1½	1,150	3,215	3,700	4,020	990	2,785	3,200	3,480	
Dbl 2⁵⁄₁₆	LSU3510-2	14	4¾	8⅞	3⅝	(24) 0.162 x 3½	(16) 0.148 x 1½	1,150	3,215	3,700	4,020	990	2,785	3,200	3,480	
Dbl 2½	LSU5.12	14	5⅛	9	2¼	(24) 0.162 x 3½	(16) 0.148 x 1½	885	3,215	3,700	3,785	760	2,785	3,200	3,280	
Skewed Hangers or Sloped and Skewed Hangers																
1¾	LSSR1.81Z	18	1¹³⁄₁₆	8¹⁵⁄₁₆	4⅛	(13) 0.148 x 2½	(9) 0.148 x 1½	510	1,205	1,205	1,205	440	1035	1,035	1,035	IBC, FL, LA
2 to 2¹⁄₁₆	LSSR2.1Z	18	2⅛	8¹⁵⁄₁₆	4⅛	(13) 0.148 x 2½	(9) 0.148 x 1½	510	1,205	1,205	1,205	440	1035	1,035	1,035	
2⁵⁄₁₆	LSSR2.37Z	18	2⅜	8¹⁵⁄₁₆	4⅛	(13) 0.148 x 2½	(9) 0.148 x 1½	510	1,205	1,205	1,205	440	1035	1,035	1,035	
2½	LSSR2.56Z	18	2⁹⁄₁₆	8¹⁵⁄₁₆	4⅛	(13) 0.148 x 2½	(9) 0.148 x 1½	510	1,205	1,205	1,205	440	1035	1,035	1,035	
3	LSSR210-2Z	16	3⅛	8¹⁵⁄₁₆	5⅛	(20) 0.162 x 2½	(13) 0.162 x 2½	695	1,810	1,810	1,810	600	1,555	1,555	1,555	
3½	LSSR410Z	16	3⁹⁄₁₆	8¹⁵⁄₁₆	5⅛	(20) 0.162 x 2½	(13) 0.162 x 2½	695	1,810	1,810	1,810	600	1,555	1,555	1,555	
Dbl 2	LSU4.12[4]	14	4⅛	9	2¼	(24) 0.162 x 3½	(16) 0.148 x 1½	1,150	2,300	2,300	2,300	990	1,990	1,990	1,990	—
Dbl 2¹⁄₁₆	LSU4.28[4]	14	4¼	9	2⅜	(24) 0.162 x 3½	(16) 0.148 x 1½	1,150	2,300	2,300	2,300	990	1,990	1,990	1,990	
Dbl 2⁵⁄₁₆	LSU3510-2[4]	14	4¾	8⅞	3⅝	(24) 0.162 x 3½	(16) 0.148 x 1½	1,150	2,300	2,300	2,300	990	1,990	1,990	1,990	
Dbl 2½	LSU5.12[4]	14	5⅛	9	2¼	(24) 0.162 x 3½	(16) 0.148 x 1½	885	1,790	1,790	1,790	760	1,550	1,550	1,550	

1. Uplift loads have been increased for earthquake or wind loading with no further increase allowed. Reduce where other loads govern.
2. For slope-only installations, the four triangle holes may be filled for an allowable roof download of 3,015 lb. for DF/SP and 2,595 lb. for SPF/HF for LSSR 16GA.
3. Roof loads are 125% of floor loads unless limited by other criteria. Floor loads may be adjusted for load durations according to the code provided they do not exceed those in the roof column.
4. LSU3510-2, LSU4.12, LSU4.28, and LSU5.12 skew options must be factory-ordered.
5. Minimum 11" joist height for LSU3510-2, LSU4.12, LSU5.12; 9½" for all others.
6. On the acute side of the skewed LSSR hanger, fill obround holes only.
7. **Fasteners:** Nail dimensions are listed diameter by length. See pp. 23–24 for fastener information.

Typical LSSR Installation Between 0° and 45° Skew
(compound miter cut, plumb cut similar)
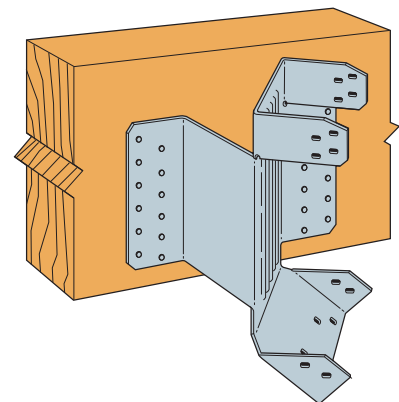
The LSU5.12 must be factory-skewed 0° to 45°. It may be field-sloped to 45°.
(LSU4.12, LSU4.28 and LSU3510-2 similar)
Hanger shown skewed right.

I-Joist, Glulam and Structural Composite Lumber Connectors