

# LSSR

## Slopeable/Skewable Rafter Hanger

The patent-pending LSSR light slopeable/skewable rafter hanger is the next generation of a field-adjustable rafter hanger. One of its key features is that it can be installed after all of the rafters have been tacked into place. A versatile hanger, it is field adjustable for skew up to 45° and features an innovative hinged swivel seat to adjust for up to a 45° slope.

**Features:**

- Makes it possible to install after the rafters are already in place
- Flange design allows for easy skew adjustment, from 0° to 45°
- Swivel seat adjusts easily and supports joist up to 45° up or down

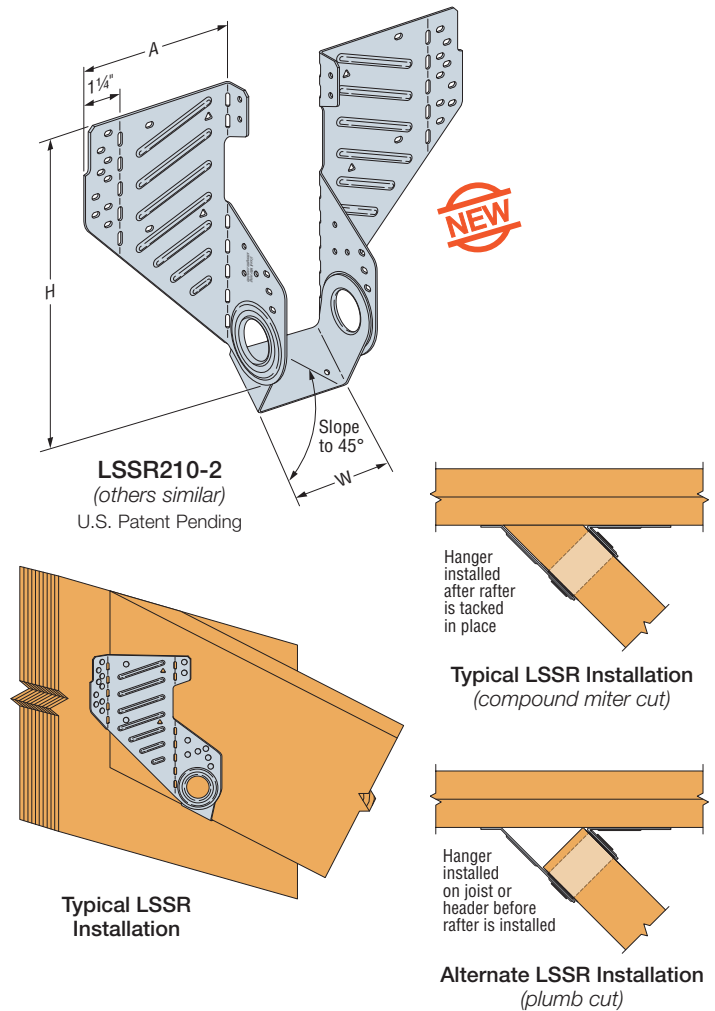
**Material:** See table

**Finish:** ZMAX® coating

**Installation:**

- Use all specified fasteners; see General Notes.
- 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 only on obtuse side
  - Bend obtuse side flange back so that header flange is flush against header
  - Install header nails

**Codes:** See p. 12 for Code Reference Key Chart



Solid Sawn Joist Hangers

These products are available with additional corrosion protection. For more information, see p. 15.

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)					
<b>Sloped Only Hangers</b>																
3	LSSR210-2Z	16	3 3/8	8 15/16	5 1/8	(22) 0.162 x 2 1/2	(18) 0.162 x 2 1/2	695	2,365	2,365	2,365	600	2,035	2,035	2,035	IBC
3 1/2	LSSR410Z	16	3 3/8	8 15/16	5 1/8	(22) 0.162 x 2 1/2	(18) 0.162 x 2 1/2	695	2,365	2,365	2,365	600	2,035	2,035	2,035	
<b>Skewed Hangers or Sloped and Skewed Hangers</b>																
3	LSSR210-2Z	16	3 3/8	8 15/16	5 1/8	(20) 0.162 x 2 1/2	(13) 0.162 x 2 1/2	695	1,810	1,810	1,810	600	1,555	1,555	1,555	IBC
3 1/2	LSSR410Z	16	3 3/8	8 15/16	5 1/8	(20) 0.162 x 2 1/2	(13) 0.162 x 2 1/2	695	1,810	1,810	1,810	600	1,555	1,555	1,555	

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. On the acute side of the skewed LSSR hangers, fill obround holes only.
5. **Fasteners:** Nail dimensions in the table are listed diameter by length. See pp. 21–22 for fastener information.

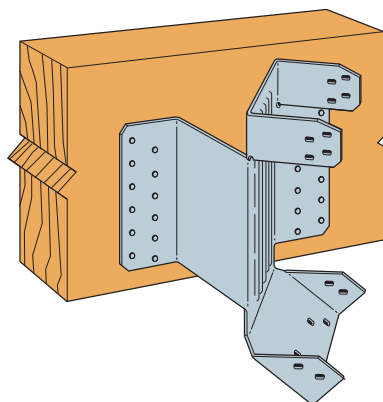
# LSSR/LSU

## Slopeable/Skewable Rafter Hanger (cont.)

These products are available with additional corrosion protection. For more information, see p. 15.

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)	
<b>Sloped Only Hangers</b>																
1 ¼	LSSR1.81Z	18	1 1/16	8 5/16	4 1/8	(14) 0.148 x 2 1/2	(12) 0.148 x 1 1/2	510	1,565	1,565	1,565	440	1,345	1,345	1,345	IBC
2 to 2 1/16	LSSR2.1Z	18	2 1/8	8 5/16	4 1/8	(14) 0.148 x 2 1/2	(12) 0.148 x 1 1/2	510	1,565	1,565	1,565	440	1,345	1,345	1,345	
2 5/16	LSSR2.37Z	18	2 3/8	8 5/16	4 1/8	(14) 0.148 x 2 1/2	(12) 0.148 x 1 1/2	510	1,565	1,565	1,565	440	1,345	1,345	1,345	
2 1/2	LSSR2.56Z	18	2 7/16	8 5/16	4 1/8	(14) 0.148 x 2 1/2	(12) 0.148 x 1 1/2	510	1,565	1,565	1,565	440	1,345	1,345	1,345	
3	LSSR210-2Z	16	3 1/8	8 5/16	5 1/8	(22) 0.162 x 2 1/2	(18) 0.162 x 2 1/2	695	2,365	2,365	2,365	600	2,035	2,035	2,035	
3 1/2	LSSR410Z	16	3 5/8	8 5/16	5 1/8	(22) 0.162 x 2 1/2	(18) 0.162 x 2 1/2	695	2,365	2,365	2,365	600	2,035	2,035	2,035	—
Dbl 2	LSU4.12	14	4 1/8	9	2 1/4	(24) 0.162 x 3 1/2	(16) 0.148 x 1 1/2	1,150	3,215	3,700	4,020	990	2,785	3,200	3,480	
Dbl 2 1/16	LSU4.28	14	4 1/4	9	2 3/8	(24) 0.162 x 3 1/2	(16) 0.148 x 1 1/2	1,150	3,215	3,700	4,020	990	2,785	3,200	3,480	
Dbl 2 5/16	LSU3510-2	14	4 3/4	8 7/8	3 3/8	(24) 0.162 x 3 1/2	(16) 0.148 x 1 1/2	1,150	3,215	3,700	4,020	990	2,785	3,200	3,480	
Dbl 2 1/2	LSU5.12	14	5 1/8	9	2 1/4	(24) 0.162 x 3 1/2	(16) 0.148 x 1 1/2	885	3,215	3,700	3,785	760	2,785	3,200	3,280	
<b>Skewed Hangers or Sloped and Skewed Hangers</b>																
1 ¼	LSSR1.81Z	18	1 1/16	8 5/16	4 1/8	(13) 0.148 x 2 1/2	(9) 0.148 x 1 1/2	510	1,205	1,205	1,205	440	1,035	1,035	1,035	IBC
2 to 2 1/16	LSSR2.1Z	18	2 1/8	8 5/16	4 1/8	(13) 0.148 x 2 1/2	(9) 0.148 x 1 1/2	510	1,205	1,205	1,205	440	1,035	1,035	1,035	
2 5/16	LSSR2.37Z	18	2 3/8	8 5/16	4 1/8	(13) 0.148 x 2 1/2	(9) 0.148 x 1 1/2	510	1,205	1,205	1,205	440	1,035	1,035	1,035	
2 1/2	LSSR2.56Z	18	2 7/16	8 5/16	4 1/8	(13) 0.148 x 2 1/2	(9) 0.148 x 1 1/2	510	1,205	1,205	1,205	440	1,035	1,035	1,035	
3	LSSR210-2Z	16	3 1/8	8 5/16	5 1/8	(20) 0.162 x 2 1/2	(13) 0.162 x 2 1/2	695	1,810	1,810	1,810	600	1,555	1,555	1,555	
3 1/2	LSSR410Z	16	3 5/8	8 5/16	5 1/8	(20) 0.162 x 2 1/2	(13) 0.162 x 2 1/2	695	1,810	1,810	1,810	600	1,555	1,555	1,555	—
Dbl 2	LSU4.12 <sup>4</sup>	14	4 1/8	9	2 1/4	(24) 0.162 x 3 1/2	(16) 0.148 x 1 1/2	1,150	2,300	2,300	2,300	990	1,990	1,990	1,990	
Dbl 2 1/16	LSU4.28 <sup>4</sup>	14	4 1/4	9	2 3/8	(24) 0.162 x 3 1/2	(16) 0.148 x 1 1/2	1,150	2,300	2,300	2,300	990	1,990	1,990	1,990	
Dbl 2 5/16	LSU3510-2 <sup>4</sup>	14	4 3/4	8 7/8	3 3/8	(24) 0.162 x 3 1/2	(16) 0.148 x 1 1/2	1,150	2,300	2,300	2,300	990	1,990	1,990	1,990	
Dbl 2 1/2	LSU5.12 <sup>4</sup>	14	5 1/8	9	2 1/4	(24) 0.162 x 3 1/2	(16) 0.148 x 1 1/2	885	1,790	1,790	1,790	760	1,550	1,550	1,550	

- Uplift loads have been increased for earthquake or wind loading with no further increase allowed. Reduce where other loads govern.
- 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.
- 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.
- LSU3510-2, LSU4.12, LSU4.28, and LSU5.12 skew options must be factory-ordered.
- Minimum 11" joist height for LSU3510-2, LSU4.12, LSU5.12; 9 1/2" for all others.
- On the acute side of the skewed LSSR hangers, fill obround holes only.
- Fasteners:** Nail dimensions in the table are listed diameter by length. See pp. 21–22 for fastener information.



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.