LSSR — Slopeable & Skewable Rafter Hanger

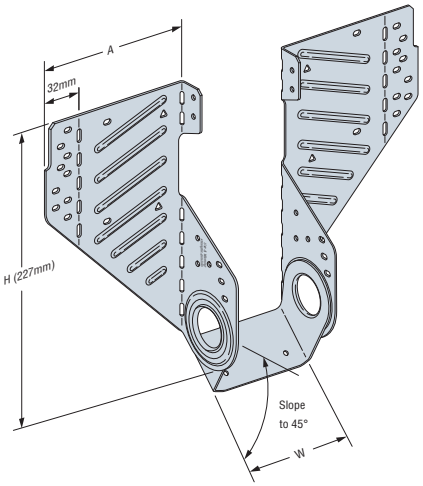
Material
Carbon Steel 1.3mm thick: LSSR1.81Z, LSSR2.1Z
Carbon Steel 1.6mm thick: LSSR410Z

Finish: ZMAX® Galvanised

Corrosion Resistance Level
MEDIUM

Size
LSSR1.81Z: 46mm(W) x 227mm(H) x 105mm(A)
LSSR2.1Z: 53mm(W) x 227mm(H) x 105mm(A)
LSSR410Z: 92mm(W) x 227mm(H) x 130mm(A)

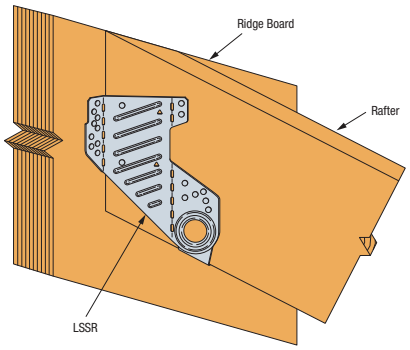
Features & Benefits
- Makes it possible to install after the rafters are already in place
- Flange design allows for easy skew adjustment, from 0° to 45°
- Swivel seat adjusts easily and supports rafter/joist
- The LSSR is slope and skew adjustable
- Cab be used for both solid sawn timber and engineered wood
- Provides support underneath the joist, rafter or beam
- Easy installation, high loads, and low installation cost



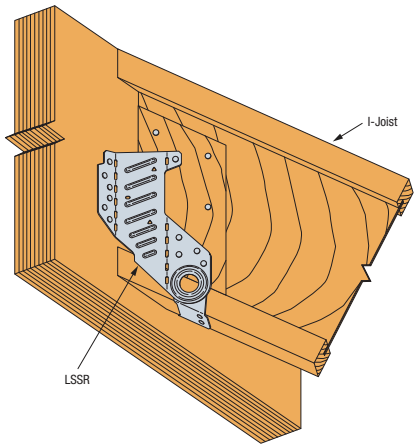
LSSR

Installation
- Use all specified fasteners
- Verify that the header/rafter can take the fasteners specified in the table
- Slide hanger into position; adjust seat and install seat nails
- Make sure side stirrups are snug close to the joist, bend lines are plumb

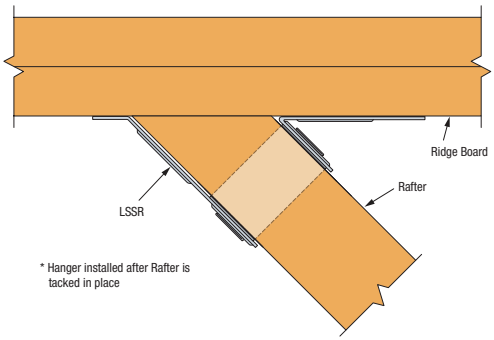
Construction Details



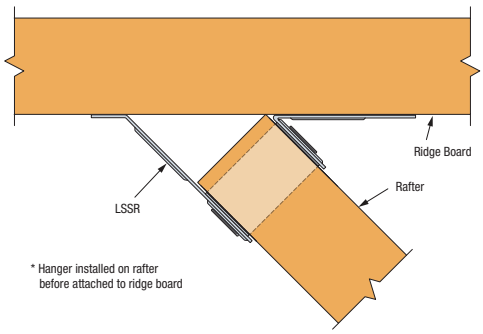
LSSR Installation Solid Timbe



LSSR Installation I-Joist



LSSR Installation (Compound Miter Cut) - Top View



LSSR Installation (Plumb Cut) - Top View

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This flyer reflects information available as of September 22, 2020 and may be updated periodically. Please visit our website for current information and limited warranty.

LSSR — Slopeable & Skewable Rafter Hanger

LSSR Technical Data

Model No.	Joist Size (mm)		Dimension (mm)		Fasteners (No. – Length x Dia., mm)		Design Capacity (kN)		
	Width	Height	W	B	Face	Joist	Uplift $k_1 = 1.14$	Download Floor $k_1 = 0.69$	Download Roof $k_1 = 0.77$
SLOPED, SKEWED or SLOPED & SKEWED HANGERS									
LSSR1.81Z	45	241–356	46	105	14 – 64 x 3.75	12 – 38 x 3.75	3.18	6.04	6.04
LSSR2.1Z	50-53		54	105	14 – 64 x 3.75	12 – 38 x 3.75	3.18	6.04	6.04
LSSR410Z	90		92	130	20 – 64 x 3.75	13 – 64 x 3.75	4.51	9.41	9.41

1. Design Capacity is the lesser of (1) the Characteristic Capacity multiplied by the Australian Capacity Factor (ϕ), and applicable the k modification factors following AS1720.1 and (2) the Serviceability Capacity which is the load at 3.2mm joint slip. Design Capacity is the minimum of test data and structural joint calculation.
2. The Capacity Factor (ϕ) is 0.85 for nails and screws for structural joints in a Category 1 application. Reduce tabulated values where other Category applications govern.
3. Duration of Load Factor (k_1) is as shown. Reduce Duration of Load Factor where applicable. Capacities may not be increased.
4. Timber species for joint design is seasoned Radiata Pine, which is which is Australia Joint Group JD4 per AS 1720.1 Table H2.4.
5. On the acute side of the skewed LSSR hangers, fill obround holes only.

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