

# LSSU – Slopeable & Skewable Joist Hanger

**Material:**

Carbon Steel 1.3mm thick: LSSUI25, LSSUI2.06  
Carbon Steel 1.6mm thick: LSSU410

**Finish:** Z275 Galvanised Corrosion Resistance Level  
▲  
LOW

**Size:** See illustration on the right and table below

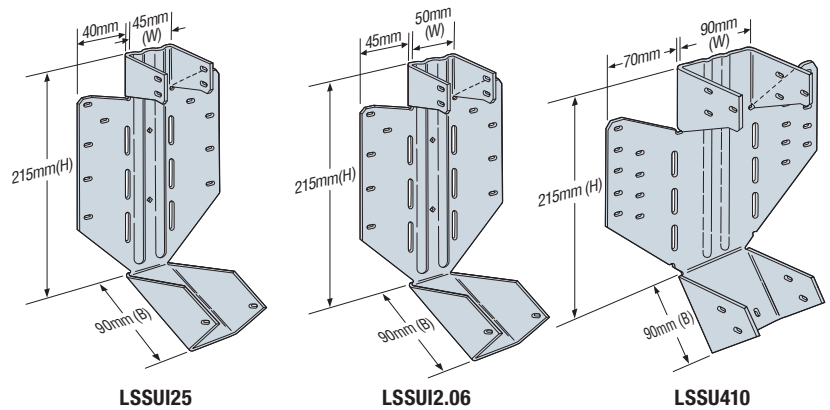
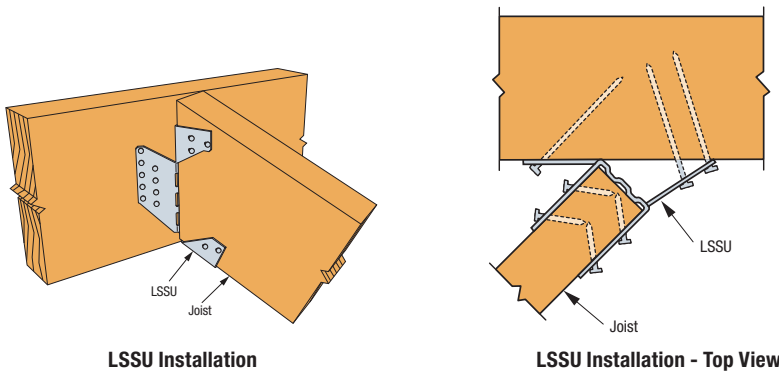
**Features & Benefits**

- All models are slope and skew adjustable
- Adjustments can be made on site
- Sizes for both solid sawn timber and engineered wood
- Provides support underneath the joist, rafter or beam
- Easy installation, high loads, and low installation cost

**Installation**

- Use all specified fasteners
- Verify that the header/rafter can take the fasteners specified in the table
- Attach the sloped joist at both ends so that the horizontal force developed by the slope is fully supported by the supporting members

**Construction Details**



**LSSU 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 <sub>1</sub> = 1.0	Floor k <sub>1</sub> = 0.80	Roof k <sub>1</sub> = 0.80
<b>SLOPED ONLY HANGERS</b>									
LSSUI25	45	241–356	45	90	10 – 75 x 3.75	7 – 38 x 3.75	2.88	6.25	6.25
LSSUI2.06	58	241–356	52	90	10 – 75 x 3.75	7 – 38 x 3.75	2.88	6.25	6.25
LSSU410	89	241–356	90	90	18 – 75 x 3.75	12 – 38 x 3.75	2.88	11.70	11.70
<b>SLOPED AND SKEWED HANGERS</b>									
LSSUI25	45	241–356	45	90	9 – 75 x 3.75	7 – 38 x 3.75	2.88	4.67	4.67
LSSUI2.06	58	241–356	52	90	9 – 75 x 3.75	7 – 38 x 3.75	2.88	5.50	5.50
LSSU410	89	241–356	90	90	14 – 75 x 3.75	12 – 38 x 3.75	2.88	6.51	6.51

1. Design Capacity is the lesser of (1) the Characteristic Capacity multiplied by the NZ Strength Reduction Factor ( $\phi$ ), and applicable the k modification factors following NZS 3603 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 Strength Reduction Factor ( $\phi$ ) is 0.80 for nails in lateral loading.
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 New Zealand Joint Group J5 per NZS 3603 Table 4.1.
5. Some face nails are not fitted in the flange on the acute angle side for skewed installations. Fill all nail holes on the obtuse angle side.
6. Do not substitute 40mm x 3.75mm nails for face nails on slope and skew combinations or skewed only LSSU/LSSUI hangers.
7. Attach the sloped joist at both ends so that the horizontal force developed by the slope is fully supported by the supporting members.
8. Web stiffeners required for I-joist applications.