

LSC – Light Staircase Stringer Connector

Material: Carbon Steel 1.3mm thick

Finish:

ZMAX® Galvanised: LSCZ



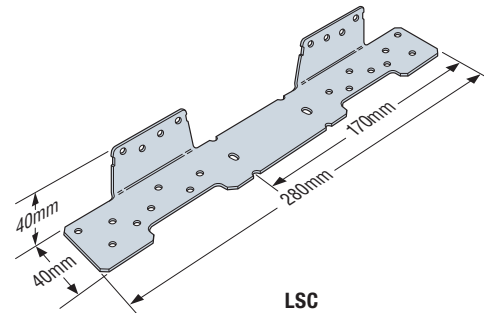
316 Stainless Steel: LSCSS



Size: See illustration on the right

Features & Benefits

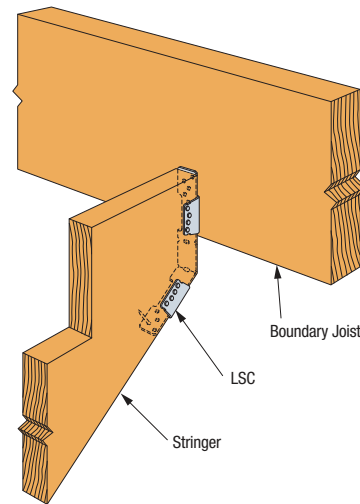
- Replaces additional framing and toenailing
- Suitable for most installations on 45mm x 250mm or 45mm x 300mm header/boundary joist
- May be installed flush with the top of the carrying member or lower on the face
- Interchangeable for left or right applications
- LSCZ features a ZMAX® coating for additional corrosion protection
- Available at 316 Stainless Steel for extra corrosion protection



Installation

- Use all specified fasteners
- Before fastening, position the stair stringer with the LSC on the carrying member to verify where the bend should be located
- Tabs on the LSC must be positioned to the inside of the stairs
- The fastener that is installed into the bottom edge of the stringer must go into the second-to-last hole

Construction Details



LSC Staircase Stringer Connection

LSC Technical Data

Model No.	Rim Joist Installation	Fasteners (Nails: No. - Length x Dia., Screws: No. - Dia. x Length, mm)			Design Download Capacity (kN) k _i = 0.80
		Rim Joist ⁶	Stringer Wide Face	Stringer Narrow Face	
LSCZ LSCSS ⁵	Supported ⁸	8 – 40 x 3.75	8 – 38 x 3.75	1 – 38 x 3.75	3.26
		8 – SD#9 x 38	8 – SD#9 x 38	—	1.92
	Standard	8 – 40 x 3.75	8 – 38 x 3.75	1 – 38 x 3.75	3.89
		8 – SD#9 x 38	8 – SD#9 x 38	1 – SD#9 x 38	3.41
	Cantilever	8 – 40 x 3.75	8 – 38 x 3.75	1 – 38 x 3.75	2.11
		8 – SD#9 x 38	8 – SD#9 x 38	—	2.53

1. Design Capacity is the lesser of (1) the Characteristic Capacity multiplied by the the NZ Strength Reduction Factor (ϕ), 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 (ϕ) is 0.80 for nails in lateral load and 0.70 for other fasteners.
3. Duration of Load Factor (k_t) 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. Simpson Strong-Tie stainless-steel connectors require stainless-steel fasteners
6. When cross-grain bending or cross-grain tension cannot be avoided in the members, mechanical reinforcement to resist such forces may be considered.
7. A minimum distance of 19mm measured from the lowest rim-joist fastener to edge of rim joist is required.
8. Simpson Strong-Tie SD#9 x 38 Strong-Drive SD Connector screws may be substituted for 40 x 3.75 nails to achieve published nail values if the extra screw is installed in the narrow face of stringer.