

## SJC Steel-Joist Connectors

SJC connectors have been specifically designed for various CFS joist and rafter applications. The unique clip dimensions enable easy installation on the open side of joists and rafters with up to 89mm flanges and return lips up to 19mm.

### Features

#### Description

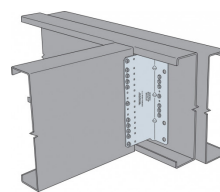
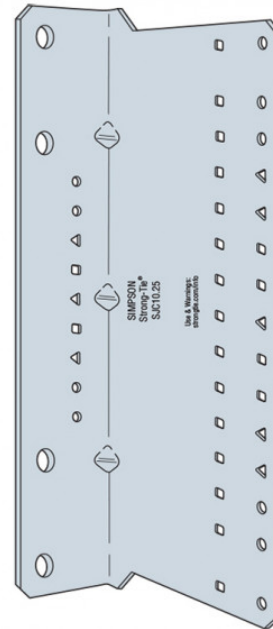
**SJC connectors have been specifically designed for various LGS joist and rafter applications. The unique clip dimensions enable easy installation on the open side of joists and rafters with up to 89mm flanges and return lips up to 19mm.**

#### Key Features

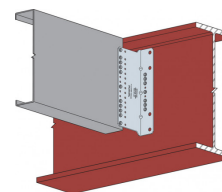
- Pre-punched holes reduce installation cost by eliminating the need for pre-drilling
- Fastener hole positions ensure accurate connector installation to accommodate a wide
- range of design and application requirements, as well as providing installation flexibility
- Angle lengths accommodate attachments for joists with return lips of up to 20 mm
- Leg length enables connections with joists with flanges up to 89 mm

#### Material

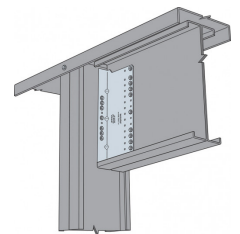
**Galvanised Mild Steel**



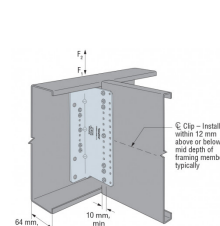
*SJC - Joist to Girder Installation*



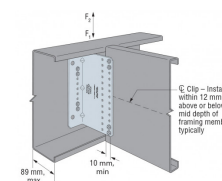
*SJC - Joist to RSJ Installation*



*SJC Header to Jam Installation*



*SJC10.25 Installation with Carried Member Fasteners in Inner Row*

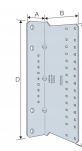


*SJC8.25 Installation with Min. Screw Pattern (screw in round holes) For max. screw pattern, fill all round and triangle holes. Min./Max. patterns have screws only in outer row.*

## SJC Steel-Joist Connectors

## Technical Data

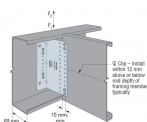
### SJC - Product Dimensions



SJC10.25 Dimensions

References	Hanger Dimensions [mm]					Holes Flange A				Holes Flange B		
	A	B	C	D	t	Ø4.8	Ø11.1	4.3 Tri	4.3 SQ	Ø4.8	4.3 Tri	4.3 SQ
SJC10.25-R15	56	114	260	283	2	4	4	3	2	6	5	19

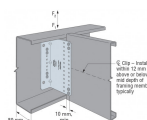
### SJC - Performance Values (Minimum Fasteners)



SJC8.25 Installation with Min. Screw Pattern (screw in round holes) For max. screw pattern, fill all round and triangle holes. Min./Max. patterns have screws only in outer row.

References	Fasteners					Safe Working Loads (Min. Fasteners) [kN]		Characteristic Capacities (Min. Fasteners) [kN]	
	Pattern	Flange A		Flange B		R <sub>1</sub> =R <sub>2</sub> ·SWL		R <sub>1</sub> =R <sub>2</sub> ·k	
		Qty	Type	Qty	Type	1.6mm LGS	2.0mm LGS	1.6mm LGS	2.0mm LGS
SJC10.25-R15	Min	4	X1214D325	6	X1214D325	5.2	7.2	8.3	11.6

### SJC - Performance Values (Maximum Fasteners)

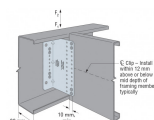


SJC8.25 Installation with Min. Screw Pattern (screw in round holes) For max. screw pattern, fill all round and triangle holes. Min./Max. patterns have screws only in outer row.

References	Fasteners				Safe Working Loads (Maximum Fasteners) [kN]		Characteristic Capacities (Maximum Fasteners) [kN]		
	Pattern	Flange A		Flange B		R <sub>1</sub> = R <sub>2,SWL</sub>		R <sub>1</sub> = R <sub>2,κ</sub>	
		Qty	Type	Qty	Type	1.6mm LGS	2.0mm LGS	1.6mm LGS	2.0mm LGS
	SJC10.25-R15	Maximum	7	X1214D325	11	X1214D325	5.6	9.1	9

## SJC Steel-Joist Connectors

### SJC - Performance Values (Inner Fasteners)



SJC8.25 Installation with Min. Screw Pattern (screw in round holes) For max. screw pattern, fill all round and triangle holes. Min./Max. patterns have screws only in outer row.

References	Fasteners					Safe Working Loads (Inner Fasteners) [kN]		Characteristic Capacities (Inner Fasteners) [kN]	
	Pattern	Flange A		Flange B		$R_1 = R_{2,SWL}$		$R_1 = R_{2,k}$	
		Qty	Type	Qty	Type	1.6mm LGS	2.0mm LGS	1.6mm LGS	2.0mm LGS
SJC10.25-R15	Inner	5	X1214D325	7	X1214D325	7.7	11.7	12.3	18.8

#### Table Notes:

1. Performance values are based upon tests completed by Simpson Strong-Tie U.S. in accordance to ICC-ES AC261 - Acceptance criteria for connectors used with Cold-Formed Steel Structural Members
2. Minimum fastener quantity and load values — fill all round holes; Maximum fastener quantity and load values — fill all round and triangular holes; Inner fastener quantity and load values — see illustrations for fastener placement.
3. When supporting member is a RSJ, fasteners in flange A should be X1224D540
4. Loads are based on bracing of the members located within 300mm of the connection.

## Installation

### Installation Options

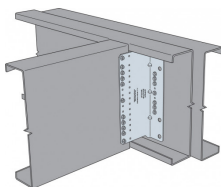
**Use the specified number & type of fasteners (see performance table for fastener type, quantities and installation pattern).**

#### Minimum & Maximum Fastener Patterns

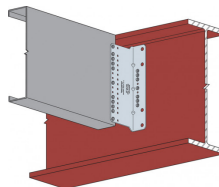
1. For minimum fastener installation: Fill all round holes in outer row only
2. For maximum fastener installation: Fill all round and triangular holes in outer row only

#### Inner Fastener Pattern

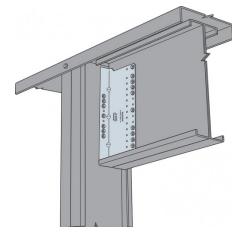
1. Fill holes in the positions indicated in the illustrations below



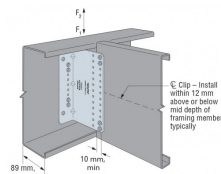
*SJC - Joist to Girder Installation*



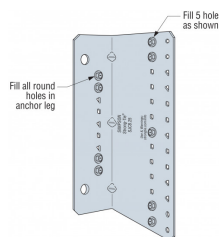
*SJC - Joist to RSJ Installation*



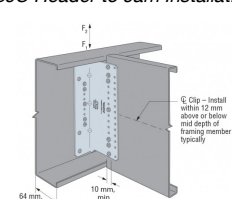
*SJC Header to Jam Installation*



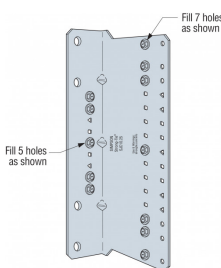
*SJC8.25 Installation with Min. Screw Pattern (screw in round holes) For max. screw pattern, fill all round and triangle holes. Min./Max. patterns have screws only in outer row.*



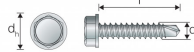
*SJC8.25 Inner Fastener Pattern*



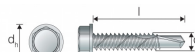
*SJC10.25 Installation with Carried Member Fasteners in Inner Row*



*SJC10.25 Inner Fastener Pattern*



*X1214D325 - Used for standard installation onto LGS Studs*



*X1224D540 - Used for installation on RSJ*

