

## Technical data sheet

**SIMPSON**

**Strong-Tie**

MJC

### Multiple Joist Connector

*The multi joist connector (MJC) allows two I-joists/metal web joists to be fixed together to act as a single unit, transferring the incoming load from the loaded ply to the unloaded ply. The MJC is an improved solution to the traditional filler block detail, which historically has been time consuming to fit and difficult to check if fitted correctly. It's simple and effective design allows one size of product to be used on any joist size – regardless of height or width.*

## Features

### Materials

- Pre-galvanised mild steel

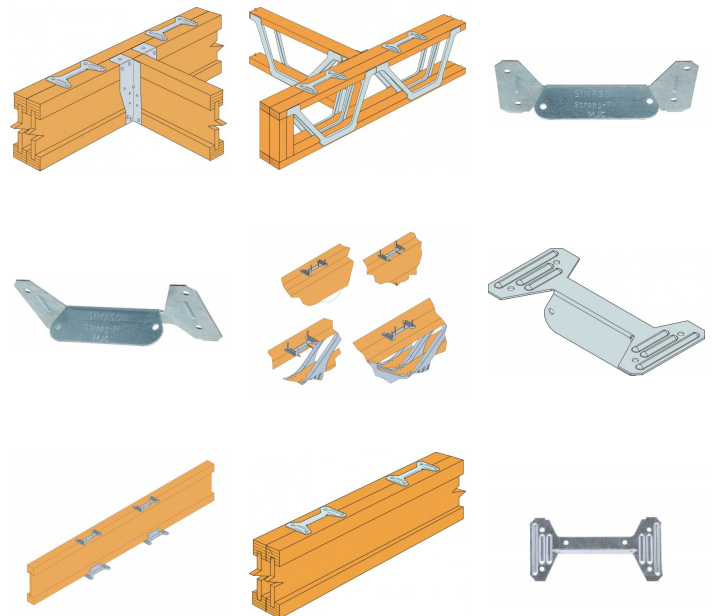
### Advantages

- Quick and simple to install
- Safely joins multiple joists together, allowing them to act as a single unit
- Easy to see that MJCs are installed (where as filler blocks are not visible)
- One size product fits all joist height and width combinations

### Features

**The MJC is an improved solution to the traditional filler block detail, which historically has been time consuming to fit and difficult to check if fitted correctly. It's simple and effective design allows one size of product to be used on any joist size – regardless of height or width.**

- Quick and simple to install.
- Safely joins multiple joists together, allowing them to act as a single unit.
- Easy to see that MJC's are installed (where as filler blocks are not visible).
- One size product fits all joist height and width combinations.
- Just one nail size required: 3.75 x 30mm square twist.



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## Technical Data

### MJC Product Dimensions

References	Dimensions [mm]				Header Holes	Joist Holes
	A	B	C	t	Ø4.1	Ø4.1
MJC	133	29	65	1.2	6	2

### Product Capacities - Max Incoming Point Load

References	Product Capacities - Max. Incoming Point Load <sup>(1)</sup>								
	Qty <sup>(2)</sup>	Fasteners per MJC		Characteristic Capacities [kN]			Safe Working Loads [kN]		
		Joist 1	Joist 2	R <sub>1,k</sub>			R <sub>1,SWL, Long Term</sub>		
		Qty N3.75x30	Qty N3.75x30	I-Joists		Metal Web	I-Joists		Metal Web
				LVL	Solid Sawn		LVL	Solid Sawn	
MJC (x4)	4	4	4	16.6	15.3	12.6	6.9	6.4	5.3
MJC (x8)	8	4	4	24.9	22.9	18.9	10.3	9.6	7.9

1. Maximum point load that can be applied when connectors are installed either side of the load
2. Number of connectors equally spaced about the incoming load

### Product Capacities - Maximum Incoming Regular Load

References	Product Capacities - Max. Incoming Regular Load <sup>(3)</sup>								
	Qty <sup>(2)</sup>	Fasteners per MJC		Characteristic Capacities [kN]			Safe Working Load [kN]		
		Joist 1	Joist 2	R <sub>1,k</sub>			R <sub>1,SWL, Long term</sub>		
		Qty N3.75x30	Qty N3.75x30	I-Joists		Metal Web	I-Joists		Metal Web
				LVL	Solid Sawn		LVL	Solid Sawn	
MJC (x2)	2	4	4	8.3	7.6	6.3	3.4	3.2	2.3
MJC (x4)	4	4	4	12.4	11.4	9.4	5.1	4.8	3.5

1. Maximum point load that can be applied when connectors are installed either side of the load
2. Number of connectors equally spaced about the incoming load
3. Maximum load that can be applied at regular intervals along the supporting joist

## MJC Multiple Joist Connector

### Installation

#### Installation

- Position the MJC onto the first joist, ensuring that they are centred about the incoming load at 400 c/c (may be adjusted within 10mm each way).
- Secure each MJC with 4 No. 3.75 x 30mm Square Twist Nails, 2 No. fasteners into the joists top face (or for the lower flange MJC, the joists bottom face) and 2 no. fasteners into the joists front face, as shown.
- Position the second joist ensuring ends are flush and joists are parallel. Secure the joist to the MJC using 4no. 3.75 x 30mm Square Twist Nails per MJC into the top (or bottom flange) as shown.

