

Technical data sheet

SIMPSON

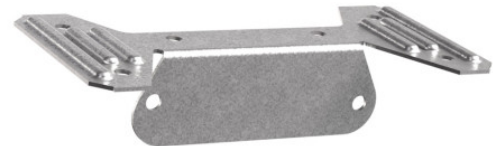
Strong-Tie

MJC

Multiple Joist Connector

The multi joist connector (MJC) allows two I-joists/metal web joists to be fixed together, 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

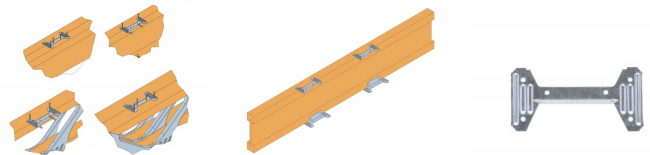
Advantages

- Quick and simple to install
- Safely joins multiple joists together, allowing them to transfer incoming loads
- 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 or 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.



MJC
Multiple Joist Connector

Technical Data

Metal Web Applications - Concentrated Loads

Maximum Incoming Concentrated Load [kN] - Metal Web		
Number of MJC's	Safe Working Loads	Characteristic Loads
4	5.3	12.6
8	7.9	18.9

Metal Web Applications - Regular Loads

Maximum Incoming Regular Load [kN] - Metal Web		
Number of MJC's	Safe Working Loads	Characteristic Loads
2	2.3	6.3
4	3.5	9.4

I-Joist Applications - Concentrated Loads

Maximum Incoming Concentrated Load [kN] - I-Joists				
Number of MJC's	Safe Working Loads		Characteristic Loads	
	LVL Flanges	45mm Solid Sawn Flanges	LVL Flanges	45mm Solid Sawn Flanges
4	6.9	7.6	16.6	15.3
8	10.3	11.4	24.9	22.9

I-Joist Applications - Regular Loads

Maximum Incoming Regular Load [kN] - I- Joists				
Number of MJC's	Safe Working Loads		Characteristic Loads	
	LVL Flanges	45mm Solid Sawn Flanges	LVL Flanges	45mm Solid Sawn Flanges
2	3.4	3.2	8.3	7.6

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Strong-Tie[®]

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4

5.1

4.8

12.4

11.4

Footnotes

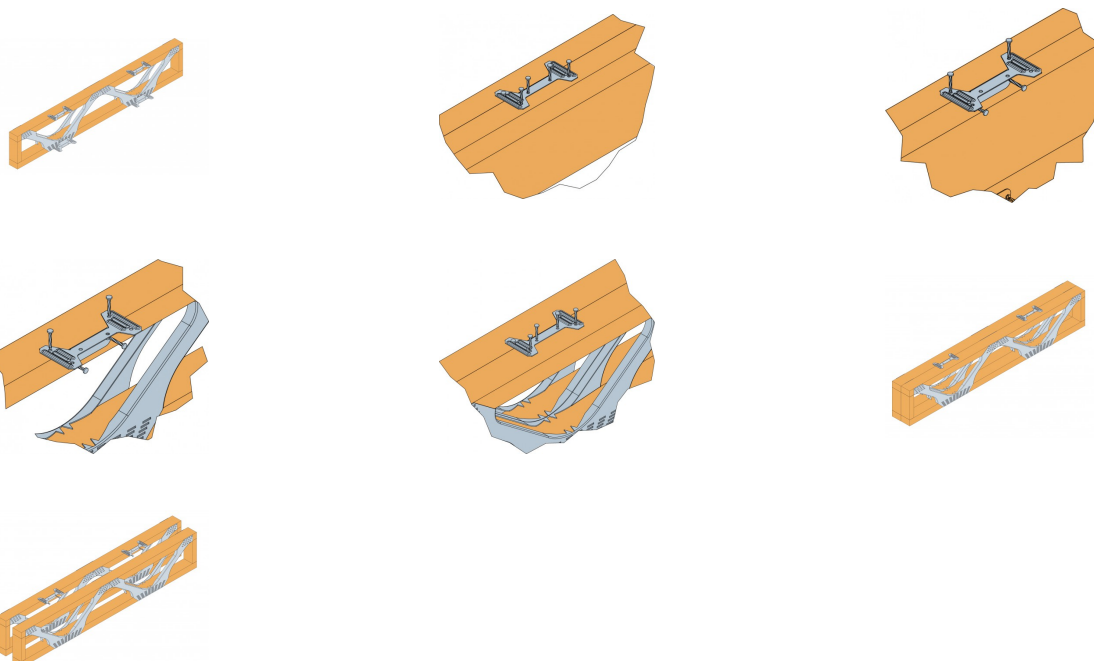
1. Maximum Incoming Concentrated Load refers to the maximum concentrated load that can be applied when the MJC's are installed either side of the incoming load
2. Number of MJC's equally spaced about the incoming load
3. Maximum Incoming Regular Load refers to the maximum load that can be applied at regular intervals along the supporting timber
4. Number of MJC's between each incoming load

MJC Multiple Joist Connector

Installation

Installation

- Position the MJCs 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.



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