

# RSJ Free Loft Conversion

## JES: I-JOIST END SUPPORT

### Engineered Timber Joist End Re-inforcement

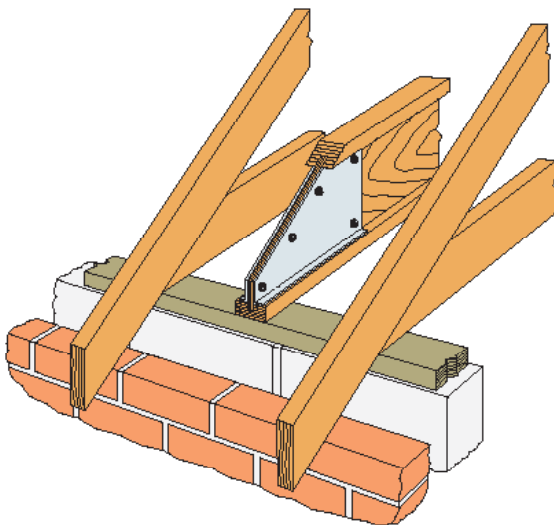


Introducing the JES (Joist End Support) from Simpson Strong-Tie®. The JES is a two piece metal-work system which enables the use of engineered timber I-joists in loft conversions by providing re-inforcement to the joist ends where they are cut to fit within the eaves of the roof (see image).

This not only allows the supporting I-joist to be installed from wall plate to wall plate (therefore not requiring a party wall agreement), but also completely eliminates the need for steel girders along with the time, cost and health and safety implications associated with installing them.

### Why Convert Lofts Using I-Joists?

- No need to install steel girders
- No need to hire a crane
- I-joists installed from wall plate to wall plate.
- No need for Party Wall Agreement
- Light Weight
- Easier to handle and install



### JES FEATURES

- The JES is not joist width dependent
- Can be used as an accurate template for cutting the I-joist end
- Fixings included with each pack

### Achieves Cost and Time Savings Arising From:

- Crane hire being unnecessary
- Reduced risk of injury moving RSJ into position
- Legal fees, since Party Wall Agreements are no longer required

### Other Loft Conversion Products From Simpson Strong-Tie:

Ventilation Plate: maintains air-flow through rafter space.

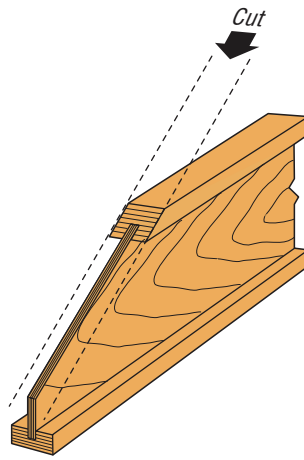
Notch Support: reinforces timbers when notched to allow 50mm pipes into floor space.

Support Bridge: reinforces timbers when notched to allow 100mm pipes into floor space.

## INSTALLATION

### Stage One

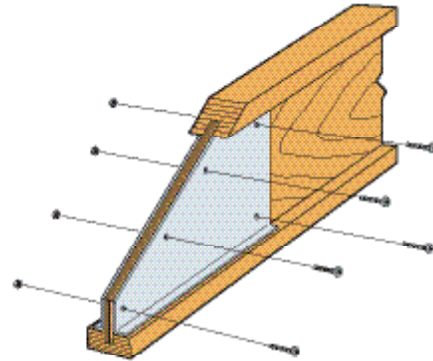
Use the steel plates as a template to mark and cut the end of the I-joist as shown, ensuring that the ends are flush as shown..



### Stage Two

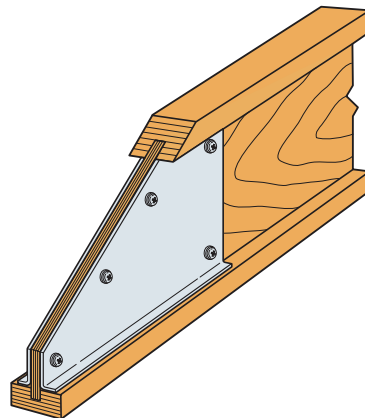
Offer the steel plates to the end of the I-Joist ensuring that the ends are flush as shown.

Use the the steel plates as a template to drill holes through the web with a  $\varnothing 6$  drill.



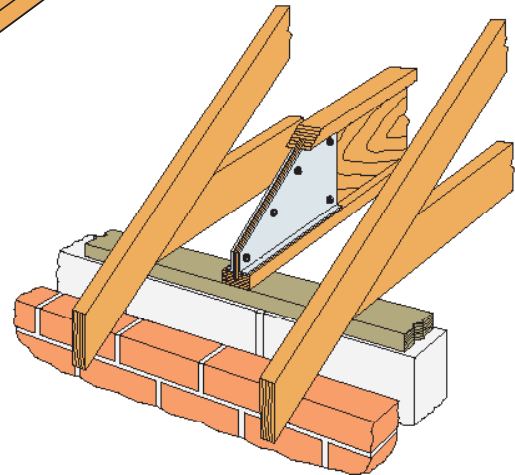
### Stage Three

Install fasteners (included with pack) as shown. Tighten using the appropriate tools.



### Stage Four

Position I-joist in between the existing trusses as shown, ensuring a full 90mm of end bearing is achieved. Joist layouts will vary - please refer to engineer responsible for floor design.



For TRADA approval details, please refer to:

TRADA Report Reference TE//F08248-2 (V1)

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