

Low Cost / Low Load Timber Frame Edge Detailing

Introduction

This Technical Bulletin offers alternative low cost timber frame edge details for use in low load applications when designing JJI-Joist intermediate floors in timber frame structures. The details presented below show the use of an 18mm WPB Plywood closer as an alternative to a JJI-Joist or BJ Beam Rimboard. These details provide the supplier with an opportunity to use short length offcuts of JJI-Joist or BJ Beam for both 'Joists Bearing on External Walls' and 'Joists Parallel to External Wall' details. These details may also be applicable for Flat and Monopitch Roof applications.

Joist Bearing On External Walls F49

- Refer to Page 7 of the JJ&S Tech Manual for Permissible Vertical Load Capacities.
- Alternatively use BJ Beam blocking in lieu of JJI-Joist blocking when required.
- JJI-Joist blocking offcuts can be any width.
- Web of blocking material must be fully supported.

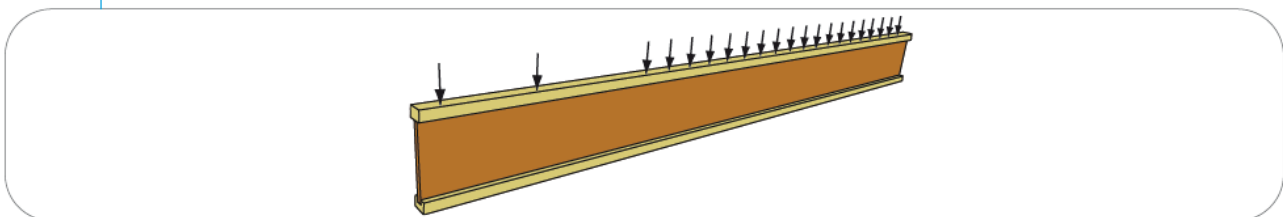
Joist Parallel To External Wall F50

- Refer to Page 7 of the JJ&S Tech Manual for Permissible Vertical Load Capacities.
- Alternatively use BJ Beam blocking in lieu of JJI-Joist blocking when required.
- JJI-Joist blocking offcuts can be any width.
- Web of blocking material must be fully supported.

The following table is an extract from Page 7 of the JJ&S Technical Manual and provides details on the Permissible JJI-Joist Vertical Load Capacities for reference when utilising the Low Cost / Low Load Timber Frame Edge Details above:

PERMISSIBLE JJI-JOIST VERTICAL LOAD CAPACITIES

JJI POINT LOADS AND UDL



JJI Joist Depth	Maximum long term load per metre run (kN/m)	Maximum single point load (kN)
195	25.0	12.0
220	20.0	12.0
235	20.0	12.0
245	19.0	12.0
300	17.0	10.0
350	15.0	10.0
400	13.0	8.0
450	12.0	8.0

Table 5. Permissible JJI-Joist Vertical Loads

Notes for Table 5:

- Loads are given for long term load duration. Modification factor k_3 has the following values for other load durations 1.25 Medium Term, 1.5 Short Term.

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James Jones & Sons Ltd, Timber Systems Division
Greshop Industrial Estate, Forres, IV36 2GW
Tel: 01309 671111 Fax: 01309 675276

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