

IBUILT™ JJI-JOISTS

PURPOSE

IBUILT JJI-Joists are supplied for use as joists and rafter framing in buildings where hazard class H1.2 applies.

EXPLANATION

IBUILT JJI-Joists are manufactured from Scots pine (top and bottom flanges) and oriented strand board (webs), which are bonded together with an exterior grade Purbond adhesive. After manufacture, the JJI-Joists are boron-treated with Koppers FramePro for hazard class H1.2 applications.

The JJI-Joists are available in lengths of up to 12.0 m and the following height x flange width options (mm):

- 240 x 72
- 300 x 72.



For further assistance please contact:

- ☎ 0800 022 352
- ✉ enquiries@nzwoodproducts.co.nz
- 🌐 ibuilt.co.nz

SCOPE AND LIMITATIONS OF USE

Scope	Limitations
Location	
In all wind zones up to and including Extra High, as defined in NZS 3604:2011, or to a maximum wind design pressure (ULS) of 2.1 kPa.	
In all exposure zones, as defined in NZS 3604:2011.	
In all seismic zones, as defined in NZS 3604:2011.	
In all snow zones, as defined in NZS 3604:2011.	
At least 1 m from a relevant or notional boundary.	
Building	
In conjunction with a primary structure that complies with the NZ Building Code or existing buildings where the designer and/or installer are satisfied that the existing building is suitable for the intended building work.	➤ With a maximum floor load of 3.0 kPa UDL.
As joists and rafter framing in buildings.	➤ In accordance with IBUILT JJI-Joist span tables or to the requirements of NZS 3604:2011 as referenced in and amended by B1/AS1 or specific engineering design to AS/NZS 1170 [set].

CONDITIONS OF USE

JJI-Joists must be used within the building envelope where hazard class H1.2 or lower applies. Fixing materials must comply with Section 4 of NZS 3604:2011.

USEFUL INFORMATION

For design, installation and maintenance information, refer to ibuilt.co.nz.

OTHER CERTIFICATIONS AND APPROVALS

James Jones & Sons, ISO 9001:2015 certification [CATG, 31/12/2022].

PERFORMANCE CLAIMS

If designed, installed and maintained in accordance with all New Zealand Wood Products Ltd (NZWOOD/IBUILT™) IBUILT™ requirements, IBUILT™ JJI-Joists will comply with or contribute to compliance with the following performance claims:

NZ Building Code clauses	Compliance statement	BASIS OF COMPLIANCE Demonstrated by
B1 STRUCTURE B1.3.1 B1.3.2 B1.3.3 (a, b, f, j, m, q) B1.3.4 (a, b, c, d, e)	ALTERNATIVE SOLUTION	<ul style="list-style-type: none"> Structural properties reviewed in accordance with ASTM D5055 and appropriate for use in specific design [Scion, 19/04/2024; James Jones & Sons Ltd, 11/2023]. Structural review by Lignum Structural as consistent with NZ Building Code requirements and appropriate for use in specific design in accordance with NZS 3603:1993 [Lignum Structural Limited, 05/06/2024]. European Technical Assessment ETA 20/1175 of JJI-Joist [Elements Materials Technology Rotterdam B.V, 15/12/2020]. Certificate of constancy of performance of manufacturing with ETA 20/1175 [Materials Testing Institute, University of Stuttgart, 05/08/2022].
B2 DURABILITY B2.3.1 (a) B2.3.2 (a)	ALTERNATIVE SOLUTION	<ul style="list-style-type: none"> FramePro treatment of JJI-Joists delivers sufficient boron to meet NZS 3640 H1.2 durability requirements by independent review [Harry Greaves Consulting, 23/04/2024; IVS Labs, 08/03/2024, 13/03/2024; Scion, 05/2010].
F2 HAZARDOUS BUILDING MATERIALS F2.3.1	ALTERNATIVE SOLUTION	<ul style="list-style-type: none"> Use in accordance with the supplier's safety instructions [IBUILT, 01/2024].

SOURCES OF INFORMATION

- Harry Greaves Consulting. [23/04/2024] *Review of the durability of Scots pine I-Beams treated with Koppers NZ FramePro boron preservative.*
- IBUILT. [06/2024] *JJI-Joist Installation Guide.*
- IVS Labs. [08/03/24] *Timber Testing Report.* Job reference: 70630.
- IVS Labs. [13/03/2024] *Analysis Report.* Report Number: R70630 (1).
- James Jones & Sons Ltd. [11/2023] *JJI-Joists Technical Manual.*
- Material Testing Institute University of Stuttgart. [15/12/2020] *Certificate of constancy of performance.* No. 0672-CPR-0971.
- Scion. [05/2010] *Durability Tests of Framing Timber For Osmose New Zealand Framing Condition after 265 and 242 Weeks Exposure.*
- Scion. [19/04/2024] *I-Beam Test Results.*
- CATG. [31/12/2022] *Certificate of Registration No. CATG-ISO-1015.*
- Elements Materials Technology Rotterdam B.V. [15/12/2020] *European Technical Assessment ETA 1175.*
- Materials Testing Institute, University of Stuttgart. [05/08/2022] *Certificate of constancy of performance No 0672-CPR-0971.*
- Lignum Structural Ltd. [05/06/2024] *Ref 3265: Report on structural review of timber I beams for the New Zealand market.*

1. Where a standard is referenced it is to be read as amended by the acceptable solution or verification method as applicable. 2. Sources of information also include the Building Act 2004 and its regulations, including the Building Code (Schedule 1 of the Building Regulations 1992), Acceptable Solutions and Verification Methods, and relevant cited standards. 3. The product is not subject to a warning or ban under section 26 of the Building Act. 4. For overseas manufacturer details, where applicable, refer to the company that is the holder of this pass™. 5. The quality and assurance that the supplied products meet the performance claims stated in this pass™ are the responsibility of the company that is the holder of this pass™. 6. The availability of the information about the supplied products required to be disclosed under s14G(3) is the responsibility of the company that is the holder of this pass™.

SCAN OR CLICK THIS QR CODE TO
ACCESS OR REQUEST THE RELEVANT
SUPPORTING DOCUMENTATION FOR
THIS PASS™.
ibuilt.co.nz



New Zealand Wood Products Ltd (NZWOOD/IBUILT™) confirms that if IBUILT™ JJI-Joists are used in accordance with the requirements of this pass™ the product will comply with the NZ Building Code and other performance claims set out in this pass™ and the company has met all of its obligations under s14G(2) of the Building Act.

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Kevin Brunton

Kevin Brunton, Technical Director, TBB confirms that the process used to prepare this pass™ on behalf of New Zealand Wood Products Ltd (NZWOOD/IBUILT™) has been undertaken in accordance with MBIE PTS guidelines and in accordance with the TBB pass™ process which is within the scope of TBB's ISO 9001 certification.

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