

PROLAM SMARTJOISTS

PURPOSE

Prowood Ltd supplies Prolam Smartjoists (Smartjoists) for use as rafters and floor joists in buildings.

EXPLANATION

Smartjoists are manufactured from graded Douglas Fir LVL15 flanges and Oriented Strand Board webs bonded together with an exterior, heat durable adhesive that complies with ASTM D5055.

Smartjoists are supplied boron treated to H1.2 or untreated.

Smartjoists are available in:

Overall height	Flange width
240 mm	70 mm
300 mm	70 mm
360 mm	90 mm



For further assistance please contact:

- ☎ 0800 832 452
- ✉ info@prowoodnz.com
- 🌐 www.prolamnz.com



SCOPE AND LIMITATIONS OF USE

Scope	Limitations
Building In conjunction with timber or lightweight steel structural framing and in accordance with the Smartjoist span tables. Where the framing complies with the NZ Building Code or for existing buildings, where the designer and/or installer have established that the existing structure is suitable for the intended building work. Within the building envelope where hazard class H1.2 or less applies.	<ul style="list-style-type: none"> ➤ Where the use falls outside the scope of the Smartjoist span tables, use needs to be specifically engineered. ➤ Fixing material to be in accordance with section 4, NZS 3604:2011. ➤ The Smartjoist must not be exposed to the environment for more than 90 days. ➤ Where the Smartjoist is to be left exposed or used in a moisture laden environment it must be protected with an impervious coating.

USEFUL INFORMATION

For information on the installation and maintenance of Prolam Smartjoists and for our warranty refer to:

<https://www.prolamnz.com/technical/>

OTHER CERTIFICATIONS AND APPROVALS HELD BY PROWOOD NZ LTD

- Bureau Veritas 'S' Mark Licence [31/07/2020]. NZS 3640:2012 Chemical preservation of round and sawn timber. Licence no. 2944.
- Certificate of Registration of Preservative Treatment & Allocated Brand Timber Treatment Plant Registration Authority
 - 709 11 H1.2 (09/07/2020), 614 11 H1.2 (09/07/2020).





PERFORMANCE CLAIMS

If designed, installed and maintained in accordance with the all Prowood Ltd requirements, Smartjoists will comply with or contribute to compliance with the following performance claims:

NZ Building Code clauses	BASIS OF COMPLIANCE	
	Compliance statement ¹	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 Allowable stress design IBC section: 2303.1.2. 2015 IRC: section R502.1.2. 2012, 2009, 2006 IRC Section R502.1.4	<ul style="list-style-type: none"> ➤ Evaluated by ICC-Evaluation Service (ICC-ES) and APA (The Engineered Wood Association) as manufactured in accordance with IBC and IRC and in accordance with the approved Pacific Woodtech Corporation I-Joist Quality Control Manual. ➤ ICC-ES is accredited by the American National Standards Institute and by the Standards of Council of Canada under ISO/IEC Guide 17065, Conformity Assessment – Requirements for Bodies Certifying Products, Processes, and Services.
B2 Durability B2.3.1(a) B2.3.2(a)	ALTERNATIVE SOLUTION	<ul style="list-style-type: none"> ➤ AS/NZS1604:2012, clause 1.9 requires same characteristic values for penetration and retention as defined in NZS 3640:2003. ➤ Subject to Prowood treatment protocol to AS/NZS 1604.4:2012 and NZS 3640:2003.
F2 Hazardous Building Materials F2.3.1	ALTERNATIVE SOLUTION. NZTPC Best Practice Guideline for the Safe Use of Timber Preservatives & Anti-sapstain Chemicals. Establishes drying and flash off requirements.	<ul style="list-style-type: none"> ➤ Subject to Prowood treatment protocol to AS/NZS 1604.4:2012 and NZS 3640:2003.

1. The Compliance Statement is the pass holder's statement that they have met their obligations under s14G(2) of the Building Act 2004.

SOURCES OF INFORMATION²


- ICC-ES and APA Joint Evaluation Report ESR-1225 [06/2020]. *Pacific Woodtech Corporation PWI Joists*. <https://www.icc-es.org/wp-content/uploads/report-directory/ESR-1225.pdf>. [accessed 18/08/2020].
- IVS [19/11/18]. *AS/NZS 1605.1:2018 Methods for sampling and analysing timber preservatives and preservative-treated timber. Part 1: General requirements, sampling, and determination of sapwood and heartwood presence*. Report 39361.
- IVS [19/11/18]. *AS/NZS 1605.2:2018 Methods for sampling and analysing timber preservatives and preservative-treated timber*

- Part 2: Determination of preservative penetration by spot test*. Report 39361.
- IVS [5/12/18]. *Boron Preservative in Timber*. Labs Analysis Report R32568

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.

Scan or click this QR code for a full download of Compliance Documentation for this pass™.

www.prolamnz.com/technical/



VERSION: **DATE:**

Note: Uncontrolled in printed format.

NAME: John Woodman

POSITION: Managing Director

Signed on behalf of Prowood Ltd:

By signing this pass™ the signatory confirms that, in respect of the subject of this pass™, the company has met their s14G obligations under the Building Act 2004.



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