

IBUILT™ H3.1 TREATED I-BEAMS

PURPOSE

IBUILT™ supplies H3.1 I-Beams for use as joists and rafter framing in buildings.

EXPLANATION

H3.1 I-Beams are manufactured from Douglas fir LVL (top and bottom flanges) and Oriented Strand Board (webs) which are bonded together with an exterior grade adhesive.

Prior to manufacture the LVL flanges and web are both individually treated. The LVL is glue-line treated with Imidacloprid, and the Oriented Strand Board (OSB) web is treated with Imidacloprid and Zinc borate (ZB). Once in New Zealand, I-Beams are H3.1 (LOSP) treated by a supplier licensed under the WOODmark® programme.

H3.1 I-Beams are available in up to 12 m lengths in 300 mm increments and height x flange width options (mm) as follows:

- > 225 x 70
 - > 300 x 70
 - > 300 x 53
- > 240 x 70
 - > 356 x 70



For further assistance please contact:

-  0800 022 352
-  enquiries@nzwoodproducts.co.nz
-  www.nzwoodproducts.co.nz



SCOPE AND LIMITATIONS OF USE

Scope	Limitations
<p>Building</p> <p>In conjunction with timber or lightweight steel framing that 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.</p> <p>In accordance with I-Beam span tables or to the requirements of NZS 3604 as referenced in and amended by B1/AS1.</p> <p>Within the building envelope where hazard class H3.1 or less applies.</p>	<ul style="list-style-type: none"> > Fixing material to be in accordance with section 4, NZS 3604:2011. > Before or during construction, the I-Beam must not be exposed to the environment for more than 90 days. > Where the H3.1 I-Beam is to be left exposed or used where it may be subject to moisture, it must be protected with an impervious coating.

USEFUL INFORMATION

For information on the design, installation and maintenance of H3.1 I-Beams and for the warranty refer to www.ibuilt.co.nz



PERFORMANCE CLAIMS

If designed, installed and maintained in accordance with all IBUILT™ requirements, the H3.1 I-Beams 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	<ul style="list-style-type: none"> ➤ Evaluated by APA (the Engineered Wood Association) as manufactured in accordance with ASTM D5055 (APA, 2019). ➤ APA is IAS accredited. ➤ Structural properties to ASTM D5055 and AS/NZS 4063:2010 reviewed by Lignum Structural (Lignum Structural Limited, 2012) as consistent with NZ Building Code requirements and appropriate for use in specific design in accordance with NZS 3603:1993.
B2 Durability B2.3.1(a) B2.3.2(a)	VERIFICATION METHOD B2/VM1: Clause 1.2 Verification through laboratory testing	<ul style="list-style-type: none"> ➤ AS/NZS 1604.4:2012, para 1.9 requires same characteristic values for penetration and retention as defined in NZS 3640:2003. ➤ Tested by Independent Verification Services (IVS) to AS/NZS 1604.2:2012 (Independent Verification Services (IVS), 2019).
F2 Hazardous Building Materials F2.3.1	ALTERNATIVE SOLUTION NZTPC <i>Best Practice Guideline for the Safe Use of Timber Preservatives & Anti-sapstain Chemicals</i> . Establishes drying & flash off requirements.	<ul style="list-style-type: none"> ➤ IBUILT™ Material Safety Data Sheet (New Zealand Wood Products Limited).

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 INFORMATION

The following information was relied upon to prepare this pass™.

- APA. (2019). *LP® SolidStart™ I-Joists Louisiana-Pacific Corporation PR-L238 Product Report*.
- Independent Verification Services (IVS). (2019). *Timber Testing Report*. Job Reference 40755A.
- Lignum Structural Limited. (2012). *Ref 1505: Report on structural review of timber I beams for New Zealand market*.
- New Zealand Wood Products Limited. (2013). *LP® SolidStart™ I-Beam Rafters (Span Tables)*.
- New Zealand Wood Products Limited. (2014). *LP® SolidStart™ I-Beam Floor Joists (Span Tables)*.
- New Zealand Wood Products Limited. (2014). *LP® SolidStart™ I-Beam Web Holes (Span Tables)*.
- New Zealand Wood Products Limited. (n.d.). *Material Safety Data Sheet (MSDS) LP® SolidStart™ I-Joists*.

VERSION:

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Note: Uncontrolled in printed format.

DATE:

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Signed on behalf of NZ Wood Products:

NAME:

.....

Bevan Snookes

POSITION:

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Technical and
Marketing Manager

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.



149 Kerrs Rd, Wiri, Auckland > enquiries@nzwoodproducts.co.nz > 0800 022 352 > www.nzwoodproducts.co.nz

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