

# IBUILT™ H3.1 TREATED I-BEAMS

## PURPOSE

IBUILT™ supplies IBUILT™ H3.1 treated I-Beams (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, they 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

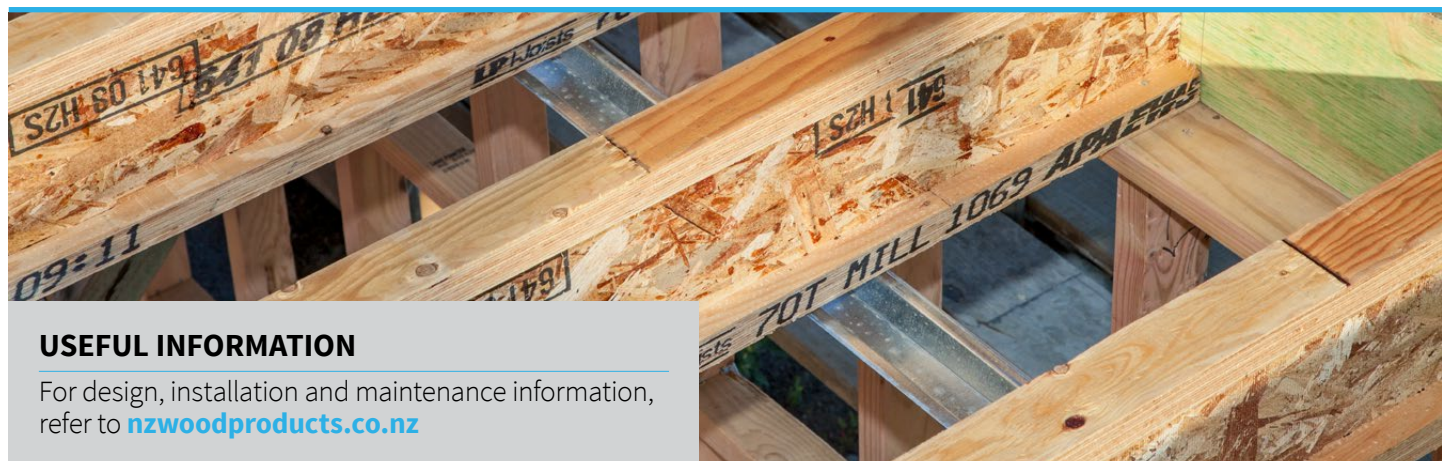


For further assistance please contact:

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## SCOPE AND LIMITATIONS OF USE

Scope	Limitations
<p><b>Building</b></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>Within the primary structure.</p>	<ul style="list-style-type: none"> <li>➤ H3.1 I-Beams must only be used within the building envelope where hazard class H3.1 or less applies.</li> <li>➤ Before or during construction, the H3.1 I-Beam must not be exposed to the environment for more than 90 days.</li> <li>➤ 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.</li> <li>➤ Spans in accordance with I-Beam span tables or to the requirements of NZS 3604 as referenced in and amended by B1/AS1.</li> <li>➤ Fixing material to be in accordance with section 4, NZS 3604:2011.</li> </ul>



## USEFUL INFORMATION

For design, installation and maintenance information, refer to [nzwoodproducts.co.nz](http://nzwoodproducts.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	Demonstrated by
<b>B1 Structure</b> 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"> <li>➤ Evaluated by APA (the Engineered Wood Association) as manufactured in accordance with ASTM D5055 (APA, 2019).</li> <li>➤ APA is IAS accredited.</li> <li>➤ 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.</li> </ul>
<b>B2 Durability</b> 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"> <li>➤ AS/NZS 1604.4:2012, para 1.9 requires same characteristic values for penetration and retention as defined in NZS 3640:2003.</li> <li>➤ Tested by Independent Verification Services (IVS) to AS/NZS 1604.2:2012 (Independent Verification Services (IVS), 2019).</li> </ul>
<b>F2 Hazardous Building Materials</b> F2.3.1	ALTERNATIVE SOLUTION NZTPC <i>Best Practice Guideline for the Safe Use of Timber Preservatives &amp; Anti-sapstain Chemicals</i> . Establishes drying & flash off requirements.	<ul style="list-style-type: none"> <li>➤ IBUILT™ Material Safety Data Sheet (New Zealand Wood Products Limited).</li> </ul>

## SOURCES OF INFORMATION

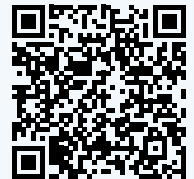
The following information was relied upon to prepare this pass™.

- 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*.

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

[nzwoodproducts.co.nz/products/details/lp-solid-start-i-beams/10/](https://nzwoodproducts.co.nz/products/details/lp-solid-start-i-beams/10/)



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™.

NZ Wood Products Ltd (NZWOOD/IBUILT™) confirms that if H3.1 I-Beams 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.

**Date of first issue:** 11/02/2020

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**NZBN:** 9429034720325

*Kevin Brunton*

Kevin Brunton, Technical Director, TBB confirms that the process used to prepare this pass™ on behalf of NZ 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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