

IBUILT™ I-BEAMS

PURPOSE

IBUILT™ supplies insecticide-treated IBUILT™ I-Beams (I-Beams) for use as joist and rafter framing in buildings, and located where the I-Beam is entirely contained within the external envelope and where it is protected from exposure to moisture.

EXPLANATION

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).

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

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

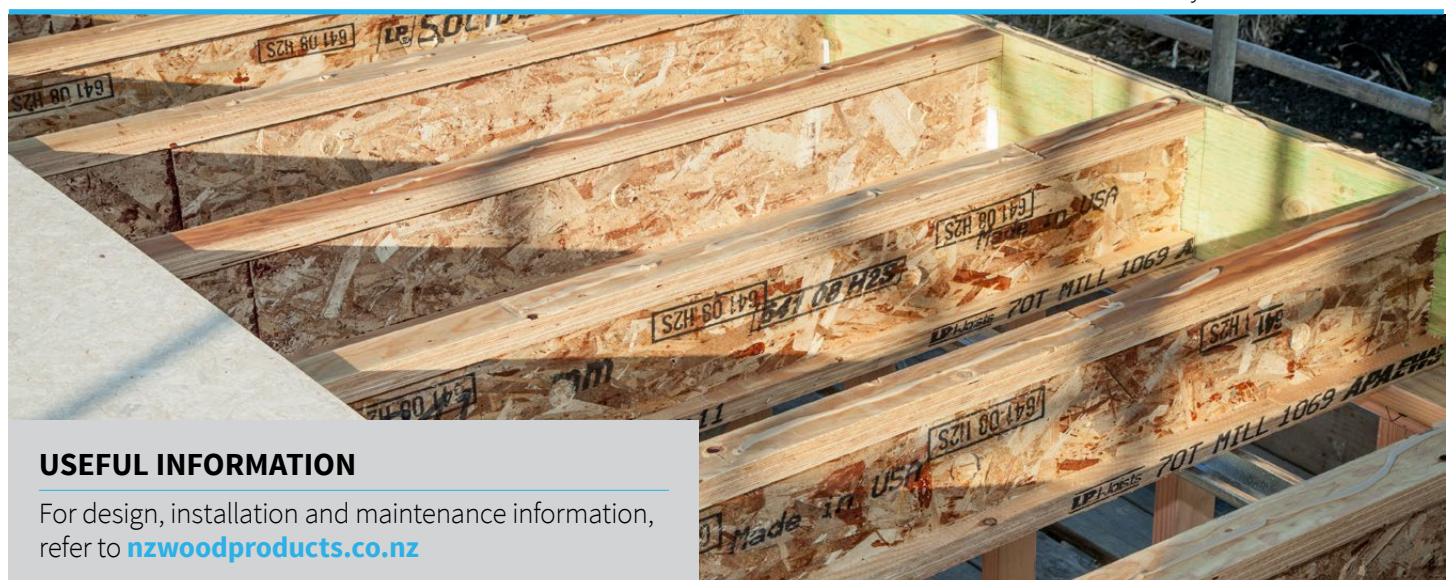


For further assistance please contact:

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SCOPE AND LIMITATIONS OF USE

Scope	Limitations
<p>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>As part of the primary structure.</p>	<ul style="list-style-type: none"> ➤ Fixing material to be in accordance with section 4, NZS 3604:2011. ➤ I-Beams must only be used in fully enclosed internal locations excluding wet areas. ➤ The I-Beam must not form any part of the external envelope (including walls). ➤ Before or during construction, the I-Beam must not be exposed to the environment for more than 90 days.



USEFUL INFORMATION

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

PERFORMANCE CLAIMS

If designed, installed and maintained in accordance with all IBUILT™ requirements, 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
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)	ALTERNATIVE SOLUTION	<ul style="list-style-type: none"> ➤ Performance in enclosed internal locations, not adjacent to external walls or wet areas consistent with Acceptable Solution B2/AS1 requirements sections 3.2.2.1 and 3.2.2.2. ➤ Structural characteristics evaluated by APA (the Engineered Wood Association) as manufactured in accordance with ASTM D5055 (APA, 2019). ➤ APA is IAS accredited.
F2 Hazardous Building Materials F2.3.1	ALTERNATIVE SOLUTION	<ul style="list-style-type: none"> ➤ IBUILT™ Material Safety Data Sheet.

SOURCES OF INFORMATION

- APA. (2019). *LP® SolidStart™ I-Joists Louisiana-Pacific Corporation PR-L238 Product Report*.
- 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/



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 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

Date of current issue: 09/10/2023

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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