

IBUILT™ I-BEAMS

PURPOSE

IBUILT™ supplies insecticide-treated I-Beams (I-Joists) 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

SCOPE AND LIMITATIONS OF USE

Scope	Limitations
Building	
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.	
In accordance with I-Beam span tables or to the requirements of NZS 3604 as referenced in and amended by B1/AS1.	➤ Fixing material to be in accordance with section 4, NZS 3604:2011.
As part of the primary structure.	<ul style="list-style-type: none"> ➤ 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.



For further assistance please contact:

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



USEFUL INFORMATION

For information on the design, installation and maintenance of 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 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	> 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	> 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	> IBUILT™ Material Safety Data Sheet.

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

- > 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*.

VERSION:	DATE:	Signed on behalf of NZ Wood Products:
<i>Note: Uncontrolled in printed format.</i>		
NAME:	Bevan Snookes	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.
POSITION:	Technical and Marketing Manager	



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