

IBUILT™ GLUE LAMINATED TIMBER (GLT) HYNE BEAM15 AND HYNE BEAM21

PURPOSE

Hyne Beam15 and Hyne Beam21 are for interior applications with high loads or those that require long spans, including beams, columns, floor joists, roof rafters, girts, purlins and similar structural applications. Hyne Beam15 is high-strength and best suited as floor beams, ridge beams, double garage door lintels and as a substitute for flitch beams.

Hyne Beam21 can be used in external, above-ground, weather-exposed applications. It is designed for high-load and appearance applications.

EXPLANATION

Hyne Beam15 and Hyne Beam21 are glue laminated timber (GLT) beams assembled using durable, exterior-grade adhesives (service class 3).

Hyne Beam 15 is manufactured from southern pine, a hybrid of slash pine (*Pinus Elliottii*) and Caribbean pine (*Pinus Caribaea*) in accordance with AS/NZS 1328.1:1998 by Hyne Timber in Maryborough, Queensland, Australia.

Hyne Beam15 is supplied standard with a camber (C) to a 600 m radius and in a structural (STR) grade. Straight beams and appearance (SEL) grade are available on request. Hyne Beam15 is available treated to H3.1 (LOSP).




Hyne Beam21 is manufactured from Queensland mixed hardwoods or with spotted gum (select grade). Hyne Beam21 is a 21E (21 MPa)-rated beam supplied straight or cambered (C) to 600 m radius. Hyne Beam21 is manufactured from a minimum durability Class 2 timber species and is supplied untreated.

The beams are sold in 600 mm increments and are available up to 11.4 m long. The beams are available in the following widths and depths.

Hyne Beam15		Hyne Beam21	
Width	Depth (mm)	Width	Depth (mm)
85 mm	130, 165, 195, 230, 260, 295, 330, 360, 395, 425, 460, 495, 525, 590.	65 mm	120, 155, 185, 215, 240, 280, 300, 315, 350, 380, 410.
130 mm	195, 230, 260, 295, 330, 360, 395, 425, 460, 495, 525.	85 mm	120, 155, 185, 215, 240, 280, 300, 315, 350, 380, 410, 445, 475, 505, 535, 570, 600.



For further assistance please contact:

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SCOPE AND LIMITATIONS OF USE

Scope	Limitations
<p>Location</p> <p>In wind zones up to and including extra high as defined in NZS 3604:2011 or to a maximum wind design pressure (ULS) of ULS 2.1 kPa.</p> <p>In all exposure zones as defined in NZS 3604:2011.</p> <p>In all seismic zones.</p> <p>In all snow zones.</p> <p>At least 1 m from a relevant or notional boundary.</p>	
<p>Building</p> <p>In conjunction with a primary structure that complies with the NZ Building Code or where the designer has established that the existing structure is suitable for the intended building work.</p> <p>In conjunction with timber framing as defined in NZS 3604:2011 or designed in accordance with AS/NZS 1170 (set).</p> <p>As a direct substitute to SG8, SG10, and SG12 (or other equivalent engineered timber products) as referenced in section 8 NZS 3604:2011 or where specifically engineered to NZS 3603:1993 or AS/NZS 1170 (set).</p>	<ul style="list-style-type: none"> › The treatment level must be appropriate to the hazard class applicable to the use of the beam. › Hyne Beam 15 must only be used for internal applications. › Hyne Beam21 may be used for internal and external applications. If using Beam21 in weather-exposed applications, refer to Hyne technical information or contact IBUILT™ for further information. › Fabricated connections must be in accordance with AS/NZS 1170.2:2000. › Hyne Beam 15 and Hyne Beam 21 must not be ripped if this would reduce the number of lamina. › Where fire-related NZ Building Code obligations apply, the specification of the beams is subject to specific fire engineering.

USEFUL INFORMATION

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

PERFORMANCE CLAIMS

If designed, installed and maintained in accordance with all New Zealand Wood Products Ltd (NZWOOD/IBUILT™) IBUILT™ requirements, IBUILT™ Glue Laminated Timber (GLT) Hyne Beam15 and Hyne Beam21 will comply with or contribute to compliance with the following performance claims:

NZ Building Code clauses	Compliance statement	BASIS OF COMPLIANCE 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)	ACCEPTABLE SOLUTION B1/AS1	<ul style="list-style-type: none"> Manufactured in accordance with AS/NZS 1328.1:1998, as referenced in clause 2.3.9, NZS 3604:2011. Holds Bureau Veritas S-Mark Licence No. 2757 [Bureau Veritas, 14/09/2023]. Characteristic properties to AS/NZS 4063 [Griffith University, 11/21].
B2 DURABILITY B2.3.1 (a) B2.3.2 (a)	ALTERNATIVE SOLUTION	<ul style="list-style-type: none"> In accordance with para.1.9, AS/NZS 1604.5:2012, the penetration and retention characteristics meet the specifications outlined in NZS 3640:2003. Glue-line integrity meets service class 3 in accordance with AS/NZS 1328.1:1998 [Hyne Timber 10/21a,b]. Timber Preservation ABN: 15 109 657 276. Timber treated to Hazard Class H3 (H3.1 for New Zealand) [Cahill Timber, 25/09/2023]. Exposure conditions specified by AS/NZS 1604.1:2021.
F2 HAZARDOUS BUILDING MATERIALS F2.3.1	ALTERNATIVE SOLUTION	<ul style="list-style-type: none"> Use in accordance with the manufacturer's safety information. Formaldehyde emission rate of less than 0.3 mg/L verified through panel testing to AS/NZS 4357.4. Meets Super E0 Emission Class requirements in accordance with AS/NZS 2269.0 [Hyne Timber 10/21a, b].

SOURCES OF INFORMATION

- Griffith University. [11/21] Experimental Testing of Glued-Laminated Timber Products in Shear, Bending and Compression. Investigation Report.
- Hyne Timber. [10/21a] BEAM 15 Product Technical Statement. NCC Volume One – Class 1 and 10 Buildings. Reference Number: Volume 1.0.
- Hyne Timber. [10/21b] BEAM 15 Product Technical Statement. NCC Volume One – Class 2 to 9 Buildings. Reference Number: Volume 1.0.
- Cahill Timber. [25/09/23] H3 LOSP Treatment. Certificate of Compliance. Licence Number: 349-64.
- Bureau Veritas. [14/09/2023] S'Mark Licence. AS 1328.1:1998.

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

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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™.



New Zealand Wood Products Ltd (NZWOOD/IBUILT™) confirms that if IBUILT™ Glue Laminated Timber (GLT) Hyne Beam15 and Hyne Beam21 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: 20/11/2023

Date of current issue: 20/11/2023

NZBN: 9429034720325

Kevin Brunton

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