

TECHLAM GLULAMINATED BEAMS

PURPOSE

Techlam glulamined beams are structural building elements. They are supplied treated to H1.2 (Boron) and H3.2 (CCA).

EXPLANATION

Techlam glulamined beams are manufactured from pre-treated, rough-sawn, kiln-dried timber (Radiata Pine, Douglas fir or other species).

Pre-manufacture treatment is carried out by treatment providers, all of whom are third party certified.

Manufacture by Techlam is third party certified, by Bureau Veritas (BV), to:

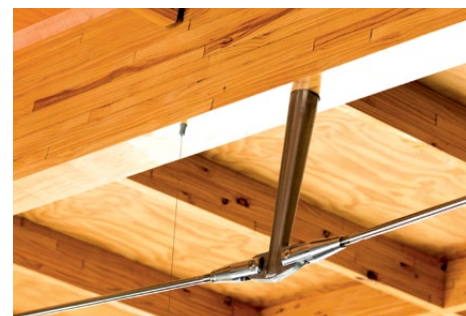
- AS/NZS 1328:1998 (Part 1). Glued Laminated Structural Timber
- AS 5068.2006 (R2016). Timber Finger Joints in Structural Products.

The beams are available in the following grades:

- appearance: A, B, C
- structural: GL8, GL10 and GL12.

They are available in three standard widths and a range of depths from 135 mm to 585 mm. See the Techlam™ selection tables for the complete standard range.

Techlam glulamined beams are supplied with factory applied coat of temporary sealer.



For further assistance please contact:

- ☎ 0800 832 452
- ✉ info@techlam.co.nz
- 🌐 www.techlam.nz



SCOPE AND LIMITATIONS OF USE

Scope	Limitations
Location	
In all exposure zones as defined in NZS 3604:2011.	➤ Fixings must be in accordance with section 4 of NZS 3604:2011.
In all wind zones as defined in NZS 3604:2011 and in all wind design ULS pressures.	<ul style="list-style-type: none"> ➤ Design to be in accordance with the Techlam span tables. ➤ Where the design ULS exceeds 2.1 kPa, specification is subject to specific engineering.
In all seismic zones.	
Building	
In all buildings where the relevant part of the building complies with the NZ Building Code, or in existing buildings, where the designer/engineer is satisfied that the existing building is suitable for the intended building work.	
As a direct substitute to SG8, SG 10 and SG 12 (or other equivalent) as referenced in section 8 NZS3604:2011 or where specifically engineered to NZS 3603:1993.	<ul style="list-style-type: none"> ➤ Fabricated connections must be in accordance with AS/NZS 1170.2:2000. ➤ Techlam glulamined beams must not be ripped where this would result in a reduction in the number of lamina. ➤ Where fire related building code obligations apply, the specification of the Techlam glulamined beam is subject to specific fire engineering. ➤ The treatment level must be appropriate to the hazard class applicable to the use of the beam. ➤ Where the post is to be coated, the paint must have a minimum LRV 45%.

USEFUL INFORMATION

For information on the design, installation and maintenance of Techlam glulamined beams and for our warranty refer to www.techlam.co.nz/downloads.

OTHER CERTIFICATIONS AND APPROVALS HELD

- Licensed FANZ/Expan Fabricators. Licence no: FAN0011
- FSC Chain of Custody Certification No. SGSHK-COC-510001-FSC-C130502.

PERFORMANCE CLAIMS

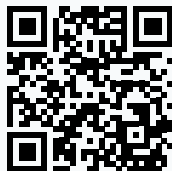
If designed, installed and maintained in accordance with all Techlam requirements, the Techlam glulamined beams will comply with or contribute to compliance with the following performance claims:

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	VERIFICATION METHOD B1/VM1 and ACCEPTABLE SOLUTION B1/AS1	<ul style="list-style-type: none"> Engineering span tables to AS/NZS 1170:2002. Manufactured to AS/NZS 1328:1998 and AS 5068:2006 (Reconfirmed 2016) under Bureau Veritas 'S' Mark License 2929, 2930 in accordance with paragraph 2.3.9.3 of NZS 3604:2011, which references AS/NZS 1328.1 [Bureau Veritas, 31/07/2020].
B2 Durability B2.3.1 (a), B2.3.2 (b)	ACCEPTABLE SOLUTION B2/AS1	<ul style="list-style-type: none"> Lamina treated in accordance with NZS 3640:2002 prior to lamination by third-party treatment providers.
F2 Hazardous Building Materials F2.3.1	ALTERNATIVE SOLUTION	<ul style="list-style-type: none"> Treatment by third-party treatment providers in accordance with NZTPC Best Practice Guideline for the Safe Use of Timber Preservatives & Anti-sapstain Chemicals. Installed Techlam glulamined beams do not emit harmful materials.

SOURCES OF INFORMATION

- Bureau Veritas. [31/07/2020]. 'S' Mark License. AS/NZS
- Bureau Veritas. [31/07/2020]. 'S' Mark License. AS 5068:2006 (R2016). Timber – Finger joints in structural products. Licence no. 2930.
- SGS. [31/05/2021] FSC Chain-of-Custody. Certificate SGSHK-COC-510001. FSC-C130502.

Scan or click this QR code for a full download of Compliance Documentation for this pass™.
www.techlam.nz/downloads



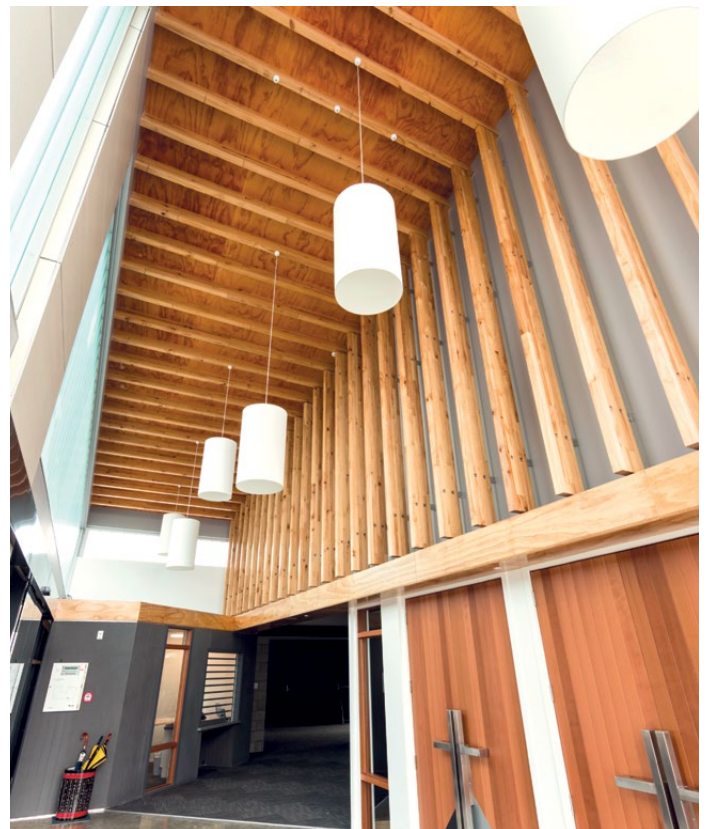
- Where a standard is referenced it is to be read as amended by the acceptable solution or verification method as applicable.
- Sources of information also include the Building Act 2004 and its regulations, including the Building Code (Schedule 1 of the Building Regulations 1992), Acceptable Solutions and Verification Methods, and relevant cited standards.
- 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™.

Techlam confirms that if the Techlam glulamined beams are used in accordance with the requirements of this pass™ the product will comply with the Building Code and other performance claims set out in this pass™ and the company has met all of its obligations under s14 G of the Building Act.

Date of first issue: 31/01/2023

Date of current issue: 11/04/2023

NZBN: 9429041616406



Kevin Brunton

Kevin Brunton, Technical Director, TBB confirms that this pass has been prepared on behalf of the Techlam and 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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