

# STRUCTURAL LAMINATED POSTS AND BEAMS

## TECHLAM LAMINATED POSTS AND BEAMS EXPLAINED

Techlam laminated posts and beams are manufactured from pre-treated, rough sawn, kiln-dried timber (Radiata pine, Douglas-fir or other species).

Posts and beams are available in the following grades:

- ▶ Appearance: A, B, C
- ▶ Structural: GL8, GL10, GL12 AND GL17

Beams (including rafters and lintels) are available in 3 standard widths and a range of depths from 135mm to 585mm.

Posts (round & square) are available in two ranges: Techlam EziPost<sup>TM</sup> and Techlam Premium Post. Both are available in sizes from 88mm x 88mm to 270mm x 270mm.

See the Techlam selection tables for the complete standard range for posts and beams.

Techlam laminated posts and beams are supplied with one coat of temporary sealer applied.

Techlam laminated posts and beams are manufactured from timber CCA treated to hazard class H3.2. Pre-manufacture treatment is carried out by suppliers, who are third-party certified.

## PURPOSE

Techlam laminated posts and beams (including rafters and lintels) are a structural building element for use in light timber framed construction.

## SCOPE OF USE

- ▶ In all buildings that comply with the New Zealand Building Code (NZBC), or in existing buildings where the designer/engineer is satisfied that the existing building is suitable for the intended building work, and
- ▶ Subject to specific engineering design, or selected from the Techlam engineered span-tables and
- ▶ Fixing materials are to be in accordance with NZS 3604:2011 section 4.0, and
- ▶ Fabricated connections to be in accordance with AS/NZS 1170.2:2002.



## VERSION:

*NOTE: Uncontrolled in printed format.*

## DATE:

**Name:** Brett Hamilton  
**Position:** General Manager  
**Signed on behalf of:** Techlam NZ.

By signing this pass<sup>TM</sup>, the signatory confirms that the product described by this pass<sup>TM</sup> complies with s14G, Building Act 2004.

## FURTHER INFORMATION

For further product assistance please contact:  
Phone: 0800 832 452  
[www.techlam.nz](http://www.techlam.nz)

## LIMITATIONS

- › Specification must be by a suitably qualified person with access to all relevant technical documentation. Where specific fire performance is required laminated posts and beams must be specified in conjunction with a Fire Engineer.
- › Laminated posts and beams must be stored, handled and installed in accordance with all Techlam requirements.
- › Within 14 days of delivery to site, the laminated posts and beams (including any saw cuts, knots, holes and rebates), must be resealed and top coated with a minimum two coat system.
- › Dark stains and coatings with a light reflectance value (LRV) of 45% or lower are not recommended.

## USEFUL INFORMATION

For information on the installation and maintenance of Techlam and for our warranty refer to: [www.techlam.nz/downloads](http://www.techlam.nz/downloads).

### CERTIFICATIONS HELD BY TECHLAM:

- › AsureQuality PINENZ Programme, (AS/NZS 1328 & AS 5068)  
Reg No: PINEZ06/Certificate number: 01, 27/2/2018
- › Licensed FANZ/Expan Fabricators  
Licence no: FANZ 0011
- › FSC® Chain of Custody Certification  
No. SGS-COC-010729-FSC-C130502

## PERFORMANCE CLAIMS

If designed, installed and maintained in accordance with all the Techlam requirements, the Techlam structural laminated posts and beams will meet the following performance claims.

Basis of compliance		
NZBC Clause	Means of compliance	Relevance
<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)	<b>Acceptable solution B1/AS1</b>	Manufacture is certified to: › AS/NZS 1170:2002 for engineering span tables › AS/NZS 1328:1998 and AS 5068-2006
<b>B2 Durability</b> B2.3.1 (a) B2.3.2 (a)	<b>Acceptable solution B2/AS1</b>	› NZS 3640:2003
<b>C6 Structural Stability</b> C6.2 (a) C6.3	<b>Acceptable solution C/AS2-C/AS7</b>	› AS/NZS 1170.0
<b>F2 Hazardous Building Materials</b> F2.3.1	<b>Alternative solution</b>	Techlam does not contain or emit harmful materials.

## SOURCES OF INFORMATION

- › AS/NZS 1328:1998 (parts 1 & 2) Glued Laminated Structural Timber
- › AS/NZS 1170:2002 – Structural Design Actions
- › AS 5068-2006 – Timber – Finger Joints in Structural Products
- › NZS 3640:2003 Chemical Treatment Round and Sawed Timber

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