

STRUCTURAL LAMINATED POSTS AND BEAMS

TECHLAM STRUCTURAL LAMINATED POSTS AND BEAMS EXPLAINED

Techlam Laminated Posts and Beams (including rafters and lintels) are a structural building element for use in light timber framed construction. Manufacture is in accordance with:

- // AS/NZS 1328:1998 (Glued Laminated Structural Timber), and
- // AS 5068:2006 (Timber Finger Joints in Structural Products).

Techlam Laminated Posts and Beams are manufactured from pre-treated, rough sawn, kiln dried timber (Radiata pine, Douglas fir or other species). Treatment is carried out by suppliers who are third party accredited and the level of treatment is specific to the end use.

The Posts and Beams are available in the following grades:

- // Appearance: A-C (visual grades)
- // Structural: GL8, GL10 and GL12

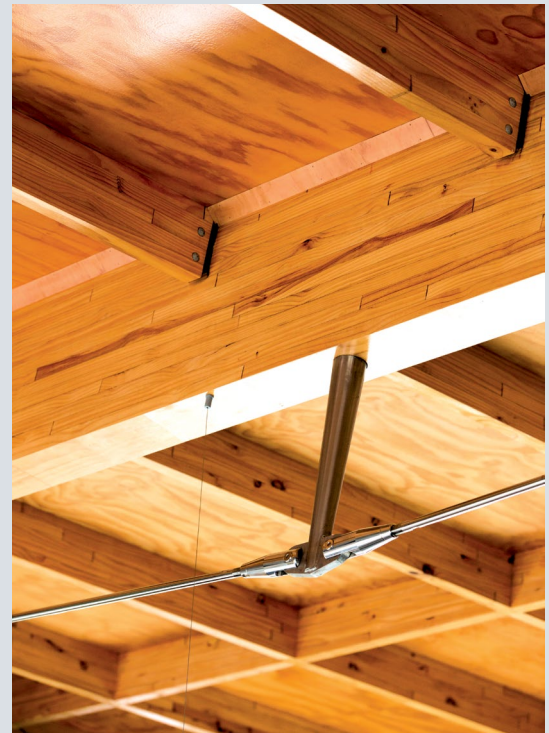
Beams (including rafters and lintels) are available in 6 standard widths and a range of depths from 135mm to 585mm. See the Techlam selection tables for the complete standard range.

Posts (round & square) are available in two ranges: Techlam EziPost[®] 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.

SCOPE OF USE

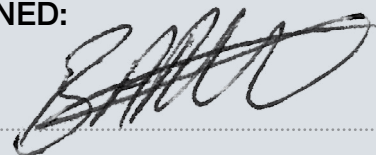
Techlam manufacture and supply Laminated Posts and Beams for use within the following scope:

- // In all buildings that comply with the NZ Building Code (NZBC).
- // In existing buildings where the designer/engineer is satisfied that the existing building is suitable for the intended building work.
- // Subject to client specific engineering design, or selected from the Techlam engineered span tables.
- // Fixing materials are to be in accordance with NZS 3604:2011 section 4.0.
- // Techlam Laminated Posts and Beams can be used in conjunction with standard or specific metal fabricated connections in accordance with AS/NZS 1170.2:2002.



SIGN OFF

SIGNED:



Brett Hamilton
General Manager

DATE: 8 November 2017

VERSION: V1.0

FURTHER INFORMATION

For further product assistance please contact:
Phone: 0800 TECHLAM (832 452)

www.techlam.co.nz

LIMITATIONS

- // Timber treatment level must meet the specific hazard class.
- // Techlam Laminated Posts and Beams must be installed in accordance with all Techlam requirements.
- // The specification and installation of Techlam Laminated Posts and Beams must be by (or supervised by) a Licensed Building Practitioner (LBP) with a relevant license class.
- // Where specific fire performance is required Techlam Laminated Posts and Beams must be designed in conjunction with a Fire Engineer.
- // All exterior timber products must be kept dry and protected from excessive heat, direct sunlight or prolonged exposure to the elements.
- // Techlam Laminated Posts and Beams are supplied with one coat of temporary sealer applied. To preserve the aesthetics of the product, it should be sealed again with a high quality primer and two full coats of premium enamel or acrylic topcoat within 14 days.
- // Dark stains, or coatings with a Light Reflectance Value (LRV) of 45% or lower are not recommended as these attract heat and can cause the timber to dry out excessively, causing splitting, resin bleeding, distortion and cracking.
- // All cuts and notches, holes and rebates must be sealed with protective coating to prevent shrinkage and swelling.
- // Techlam recommends that a suitably qualified structural engineer specify appropriate member sizes on a project specific basis.

COMPLIANCE WITH THE NZ BUILDING CODE

If designed, installed and maintained in accordance with all Techlam technical information, the Laminated Posts and Beams will comply with or contribute to compliance with the following provisions of the NZBC:

NZBC Clause	Evidence of compliance
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)	AS/NZS 1170:2002 for engineering span tables AS/NZS 1328:1998 and AS 5068:2006 for building element
B2 Durability B2.3.1(a) B2.3.2(a)	NZS 3640:2003
C6 Structural Stability C6.2 C6.3	TT-118 OR: NZS 3603:1993 (section 9) (specific design)
F2 Hazardous Building Materials F2.3.1	Timber treatment suppliers meet NZS 3640, which includes flash-off requirements.

OTHER CERTIFICATIONS HELD BY TECHLAM

- // AS/NZS 1328:1998, Glued Laminated Structural Timber – Licence No. 2682
- // AS 5068, Timber Finger Joints in Structural Products – Licence No. 2683
- // Licenced FANZ/Expan Fabricators – Licence No. FANZ 0011
- // FSC® Chain of Custody Certification – No. SGS-COC-010729 – FSC-C130502

USEFUL LINKS

For information on the installation and maintenance of Techlam Laminated Posts and Beams, and for our warranty, refer to www.techlam.nz/downloads

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