

# STRUCTURAL LAMINATED ARCHITECTURAL PORTALS

## TECHLAM STRUCTURAL LAMINATED TIMBER PORTALS EXPLAINED

Techlam Laminated Timber Portal frames are a structural solution providing large and efficient spans 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 Timber Portals 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.

Depending on specific requirements, portals are available in:

- // Different grades for visual appearance,
- // Multiple design configurations.

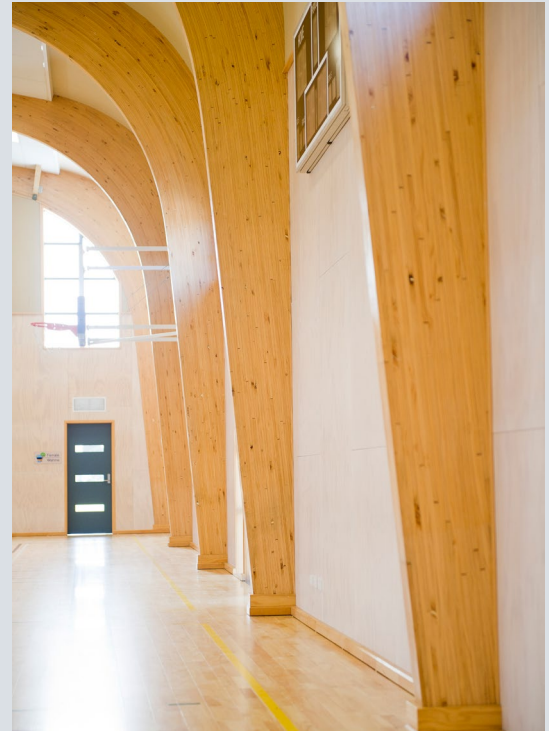
## SCOPE OF USE

Techlam manufacture and supply Laminated Timber Portals 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 specific engineering design.
- // Fixing materials are to be in accordance with NZS3604:2011 section 4.0.
- // Techlam Laminated Timber Portals can be used in conjunction with standard or specific metal fabricated connections in accordance with AS/NZS1170.2:2002.

## LIMITATIONS

- // Timber treatment level must meet the specific hazard class.
- // Techlam Laminated Timber Portal frames must be installed in accordance with all Techlam requirements.
- // The specification and installation of Techlam Laminated Timber Portal frames must be by (or supervised by) a Licensed Building Practitioner (LBP) with a relevant license class.
- // Where specific fire performance is required Techlam Laminated Timber Portals must be designed in conjunction with a Fire Engineer.



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](http://www.techlam.co.nz)

- // All exterior timber products must be kept dry and protected from excessive heat, direct sunlight or prolonged exposure to the elements.
- // Techlam Laminated Timber Portal frames products 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 Timber Portals will comply with or contribute to compliance with the following provisions of the NZBC:

NZBC Clause	Evidence of compliance
<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)	AS/NZS1170:2002 for engineering span tables  AS/NZS 1328:1998 and AS 5068:2006 for building element
<b>B2 Durability</b> B2.3.1(a) B2.3.2(a)	NZS 3640:2003
<b>C6 Structural Stability</b> C6.2 C6.3	TT-118 OR: NZS 3603:1993 (section 9) (specific design)
<b>F2 Hazardous Building Materials</b> F2.3.1	Timber treatment suppliers meet NZS3640, which includes flash-off requirements.

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**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 Structural Laminated Timber Portals, and for our warranty, refer to: [www.techlam.nz/downloads](http://www.techlam.nz/downloads)

