

# TECHLAM LAMINATED ARCHITECTURAL PORTALS

## PURPOSE

Techlam laminated architectural portals (portals) are a structural solution for buildings:

- › requiring structural support capable of large spans
- › in highly corrosive environments
- › requiring a high degree of fire resistance.

## EXPLANATION

Techlam Laminated Architectural Portal frames are manufactured from pre-treated, rough sawn, kiln-dried timber (Radiata Pine, Douglas fir or other species).

The portal manufacture is third party certified, by Bureau Veritas (BV), to the relevant NZ standards.

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

They are manufactured from timber CCA treated to hazard class H1.2, H3.2 and H5. The treatment is carried out by others who are third-party certified.

Portals are available in:

- › different grades for visual appearance
- › multiple configurations including curved knee portals and plywood gussets.

Portals are supplied with one coat of temporary sealer applied.



For further assistance please contact:

- ☎ 0800 832 452
- ✉ [info@techlam.co.nz](mailto:info@techlam.co.nz)
- 🌐 [www.techlam.nz](http://www.techlam.nz)



## SCOPE AND LIMITATIONS OF USE

Scope	Limitations
<b>Location</b> <p>In all locations.</p>	<ul style="list-style-type: none"> <li>› Subject to specific engineering design, or selected from the Techlam engineered span tables.</li> <li>› Fixing materials are to be in accordance with NZS 3604:2011, section 4.0.</li> </ul>
<b>Building</b> <p>In all buildings where the relevant part of the building complies with the NZ Building Code (NZBC), or in existing buildings, where the designer/engineer is satisfied that the existing building is suitable for the intended building work.</p>	<ul style="list-style-type: none"> <li>› Fixing materials are to be in accordance with NZS 3604:2011, section 4.0.</li> <li>› Fabricated connections to be in accordance with AS/NZS1170.2:2002.</li> <li>› Where specific fire performance is required, the portals must be specified in conjunction with a Fire Engineer.</li> </ul>

## USEFUL INFORMATION

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

## OTHER CERTIFICATIONS AND APPROVALS HELD BY TECHLAM

- › Bureau Veritas 'S' Mark Licence [31/07/2020]. AS/NZS 1238.1:1998 *Glue laminated structural timber*. Licence no. 2929.
- › Bureau Veritas 'S' Mark Licence [31/07/2020]. AS 5068:2006 (R2016). *Timber – Finger joints in structural products*. Licence no. 2930.
- › Licensed FANZ/Expan Fabricators. Licence no: FAN0011.
- › FSC® Chain of Custody Certification No. SGSHK-COC-510001 - FSC-C130502.

## CONDITIONS OF USE

- The specification and installation of Techlam portals must be carried out by (or supervised by) a Licensed Building Practitioner (LBP) with a relevant license class and with access to all relevant technical documentation.
- Portals must be stored, handled and installed in accordance with all Techlam requirements.
- Within 14 days of delivery to site, the portals (including any cuts, knots, holes and rebates), must be re-sealed 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.

## PERFORMANCE CLAIMS

If designed, installed and maintained in accordance with the all Techlam requirements, the Techlam Structural Laminated Architectural Portals will comply with or contribute to compliance with the following performance claims:

NZ Building Code clauses	BASIS OF COMPLIANCE	
	Compliance statement	Demonstrated by
<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)	VERIFICATION METHOD B1/VM1 ACCEPTABLE SOLUTION B1/AS1	<ul style="list-style-type: none"> <li>➤ Engineering Span tables to AS/NZS 1170:2002.</li> <li>➤ Manufactured to AS/NZS 1328:1998 and AS 5068:2006 (R2016). BV 'S' Mark License 2929, 2930 [31/03/2020].</li> </ul>
<b>B2 Durability</b> B2.3.1(a) B2.3.2(a)	ACCEPTABLE SOLUTION B2/AS1	<ul style="list-style-type: none"> <li>➤ Lamina treated to NZS 3640:3002 prior to lamination.</li> </ul>
<b>C6 Structural Stability</b> C6.2 (a) C6.3	VERIFICATION METHOD B1/VM1 NZS 3603:1993	<ul style="list-style-type: none"> <li>➤ Specification to NZS 3603:1993, section 9. <i>Design of Fire Resistance</i>.</li> </ul>
<b>F2 Hazardous Building Materials</b> F2.3.1	ALTERNATIVE SOLUTION. NZTPC Best Practice Guideline for the Safe Use of Timber Preservatives & Anti-sapstain Chemicals. Establishes drying and flash off requirements.	<ul style="list-style-type: none"> <li>➤ Techlam makes this claim in reliance of the treatment supplier's third party certified.</li> </ul>

## SOURCES OF INFORMATION

- Bureau Veritas 'S' Mark Licence [31/07/2020]. AS/NZS 1238.1:1998 *Glue laminated structural timber*. Licence no. 2929.
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Scan or click this QR code for a full download of Compliance Documentation for this pass™.  
[www.techlam.nz/downloads](http://www.techlam.nz/downloads)



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.

Techlam Ltd confirms that if the Laminated Portal is 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:** 11/11/2018

**Date of current issue:** 21/12/2021

**NZBN:** 9429041616406

*Kevin Brunton*

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