

# TECHLAM GLULAMINATED T&G FLOORING

## PURPOSE

Techlam glulamined T&G Flooring (T&G flooring) are glulamined boards with a tongue and groove edge that may be used as a flooring over a timber or steel subfloor structure. It can be left exposed functioning as a fully finished floor & ceiling.

## EXPLANATION

T&G flooring is manufactured from pre-treated, rough sawn, kiln-dried timber (Radiata Pine, Douglas fir or other species).

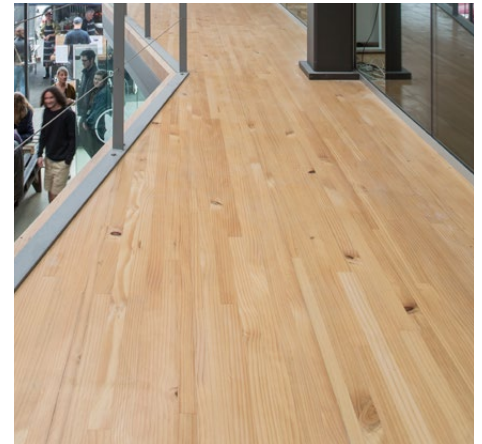
Manufacture is third party certified, by Bureau Veritas (BV), to:

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

Pre-manufacture treatment is carried out by others who are third-party certified.

T&G flooring is supplied:

- in grades GL8, GL10 and GL12.
- with either a Grade A visual or utility non-visual finish
- available untreated or treated to meet Hazard class H1.2 and H3.2.
- with or without a V bevel
- in two widths (300 mm and 240 mm)
- in a range of thicknesses from 42 mm – 135 mm, and
- manufactured to any specified length.



For further assistance please contact:

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



## SCOPE AND LIMITATIONS OF USE

Scope	Limitations
<b>Building</b>	
In 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 flooring system.	<ul style="list-style-type: none"> <li>➤ The use of the space/building must be considered when relying on the T&amp;G flooring Span Tables as they based on 'live load' categories (kPa) and vibration limitations, which are subject to the use of the space/building.</li> <li>➤ Where C3.4 (b) applies, the T&amp;G flooring must be covered with a material meeting the radiant flux requirements for the specific use and as defined in C3.4 (b).</li> <li>➤ Where D1.3.3 applies, a slip resistance covering must be installed.</li> <li>➤ Where subject to watersplash the T&amp;G flooring must be coated with an impervious coating.</li> <li>➤ The boards must be allowed to acclimatise and achieve the equilibrium moisture content for the interior conditions.</li> <li>➤ End grains, joints and notch holes must be sealed with a waterproof coating to prevent swelling and shrinkage from moisture penetration.</li> </ul>
As an exposed ceiling.	<ul style="list-style-type: none"> <li>➤ Where C3.4(a) applies the T&amp;G flooring must be covered with a material meeting the applicable material group number.</li> <li>➤ Where Building Code obligations with respect to protection from fire apply requiring fire resistance rating, the use of the T&amp;G flooring is subject to specific design.</li> <li>➤ The boards must be allowed to acclimatise and achieve the equilibrium moisture content for the interior conditions.</li> <li>➤ End grains, joints and notch holes must be sealed with a waterproof coating to prevent swelling and shrinkage from moisture penetration.</li> </ul>

## OTHER CERTIFICATIONS AND APPROVALS HELD BY TECHLAM

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

## USEFUL INFORMATION

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

## PERFORMANCE CLAIMS

If designed, installed and maintained in accordance with the all Techlam requirements, the T&G flooring 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	VERIFICATION METHOD B1/VM1 and ACCEPTABLE SOLUTION B1/AS1	<ul style="list-style-type: none"> <li>➤ Span tables in accordance with AS/NZS 1170:2002.</li> <li>➤ Manufactured to AS/NZS 1328:1998 and AS 5068:2006 (R2016) under 'S' Mark Product Certification license No. 2929 and No. 2030 [Bureau Veritas, 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 3640:2003 prior to lamination by third-party treatment providers.</li> </ul>
<b>C3 Fire affecting areas beyond the fire source</b> C3.6	ALTERNATIVE SOLUTION	<ul style="list-style-type: none"> <li>➤ Specification to NZS 3603:1993, section 9.</li> <li>➤ Charring rates of timber in accordance with BRANZ Study Report No. 42 'Charring Rates of Timber' [BRANZ, 1992].</li> </ul>
<b>C4 Movement to a place of Safety</b> C4.3		
<b>E3 Internal moisture</b> E3.3.4, E3.3.5, E3.3.6	ALTERNATIVE SOLUTION	<ul style="list-style-type: none"> <li>➤ Installation in accordance with BRANZ Bulletin BU 645 [BRANZ, 12/2019].</li> </ul>
<b>F2 Hazardous Building Materials</b> F2.3.1	ALTERNATIVE SOLUTION	<ul style="list-style-type: none"> <li>➤ Treatment by third-party treatment providers in accordance with NZTPC Best Practice Guideline for the Safe Use of Timber Preservatives &amp; Anti-sapstain Chemicals.</li> <li>➤ Installed T&amp;G flooring does not emit harmful materials.</li> </ul>

## SOURCES OF INFORMATION

- Bureau Veritas. [31/07/2020]. 'S' Mark License. AS/NZS 1238.1:1998 Glue laminated structural timber. Licence no. 2929.
- 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.
- BRANZ. [12/2019]. Installing Timber Strip Flooring over Timber Joists. Bulletin BU Issue 645. Retrieved from [https://d39d3mj7qio96p.cloudfront.net/media/documents/BU645\\_Installing\\_timber\\_strip\\_flooring\\_over\\_timber.Pdf](https://d39d3mj7qio96p.cloudfront.net/media/documents/BU645_Installing_timber_strip_flooring_over_timber.Pdf). [Accessed on 5/3/2023].
- BRANZ. [1992]. Study Report No.42 (1992) Charring Rates of Timber. Retrieved from [https://d39d3mj7qio96p.cloudfront.net/media/documents/SR42\\_Charring\\_rates\\_of\\_timber.pdf](https://d39d3mj7qio96p.cloudfront.net/media/documents/SR42_Charring_rates_of_timber.pdf). [Accessed on 9/3/2023].



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[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.
3. 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 Ltd confirms that if the T&G flooring 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:** 08/11/2017

**Date of current issue:** 06/04/2023

**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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