



 **XLT CLT**
STANDARDISED CLT FLOORING SYSTEM
BY XLAM



XLT is a range of products by XLAM that bring the benefits of mass timber to residential and light commercial construction. The XLT range includes 'ready made' panels, structural flooring, beams, columns, bracing and portal structures.

Mass timber is strong, sustainable, durable and offers impressive structural properties. The XLT range is made from Australian grown plantation radiata pine offering painless onsite alterations, easy handling and fast install. Using timber alternatives means that you can minimise the reliance on fabricated steelwork and pair timber XLT products with timber framing.



Certificate CM70140



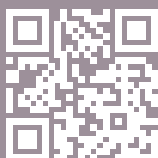
AUSTRALIAN
GROWN & MADE



Responsible
Wood



PEFC
PEFC/21-31-15



XLT SPAN

XLT Span is XLAM's standardised cross laminated timber (CLT) flooring system, purpose-designed for flooring in residential and light commercial projects. Engineered for speed, efficiency, and ease of installation, XLT Span offers a smarter way to build.

What makes XLT Span different is its standardised, ready-to-use format. With pre-engineered span tables and fixed panel sizing, XLT Span removes the need for custom shop drawings and cuts down manufacturing lead times – helping your project stay on schedule and on budget.

XLT Span is made by XLAM from sustainably grown Australian plantation pine.

XLAM

A privately owned mass timber manufacturer with facilities across Australia and New Zealand. As Australasia's first CLT (cross-laminated timber) manufacturer, we're leading the way in making mass timber accessible.

Since 2010, XLAM have been at forefront of CLT and GLT (glue laminated timber) manufacturing in the southern hemisphere, completing more than 1,000 commercial builds. XLAM now bring the benefits of mass timber to residential and light commercial construction through a range of ready-made timber products.

A HYNE GROUP COMPANY

XLAM are uniquely positioned to produce mass timber products with the advantage of ready access to high-quality timber feedstock. As a part of the Hyne Group, we access timber from our sister business Hyne Timber, who operate some of the region's largest and most sophisticated mills.

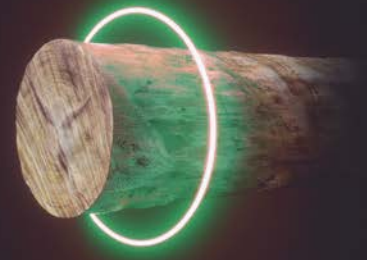
Our production sites are strategically located near our mills for efficient production of our XLT product range.



MADE FROM SOLID WOOD

XLAM's XLT Span is a modular, floor system designed to deliver superior spans and efficient installation. Made from sustainably grown, PEFC-certified plantation pine, the lightweight panels provide natural thermal insulation.

Produced under strict quality controls, every panel is precise, consistent, and easy to handle, cut, and install. With minimal onsite waste and maximum efficiency, XLT Span is a smarter, sustainable flooring product that saves time, reduces costs, and ensures lasting performance.

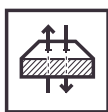




XLT SPAN BENEFITS



Thermal Insulation:
 A 0.83m²K/W (100mm panel)
 1.08m²K/W (135mm panel) thermal
 rating shields the build from
 temperature change and lowers
 heating/cooling costs.



Sound Insulation:
 XLT Span achieves $R_w = 34$ dB
 for minimal sound transference.



Environmentally Responsible:
 Made from PEFC-certified plantation
 pine which absorbs carbon from the
 atmosphere as the tree grows.



Solid Under Foot:
 XLT Span is made from solid mass
 timber and offers a solid feel underfoot.



Termite and Fungal Resistant:
 XLT Span panels are H3 treated with Hyne's
 CodeMark-certified T3 Green preservative,
 providing protection against termites,
 borers, fungal decay, and rot.



XLT SPAN ON THE JOB SITE



Superior Spans:
Engineered to achieve greater spans, reducing the need for intermediate supports and helping to simplify structural design.



Fast, Efficient Installation:
Modular panels and standardised sizing, designed for speed. Panels arrive ready to go, ready for install with minimal onsite labour.



Reduced Footings:
XLT Span's lighter panel profile reduces overall structural loads, allowing for simpler footings and foundations.



Adaptable Sizing Options:
With standard panel sizes XLT Span is ideal for residential applications. For bespoke projects requiring differing lengths, the panels can be easily docked onsite.

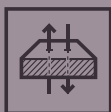


Reduced Waste & Noise:
Enjoy a cleaner, quieter job site with significantly less material wastage and minimal noise pollution during installation.

XLT SPAN

XLT Span is a lightweight standardised CLT flooring system made from sustainable radiata pine, designed for Australian residential builds. XLT Span panels are available in standard thicknesses of 100 & 135mm, standard widths of 600, 900, 1200 & 2400mm, and lengths between 3–9m in standard increments of 0.3m. This range provides versatile solutions for various project requirements, and panels can be easily docked onsite to achieve the exact dimensions needed for any design.

KEY SPECS



SOUND INSULATION
Up to $R_w = 34$ dB



THERMAL INSULATION
 $0.83\text{m}^2\text{K/W}^*$
 $1.08\text{m}^2\text{K/W}^{**}$



WEIGHT
 47kg/m^2^*
 64kg/m^2^{**}



CARBON ABSORBED
492 kg CO₂
stored per m³



**PLANTATION
REGROW TIME**
~0.16sec per m³

* 100mm panel thickness.

** 35mm panel thickness.

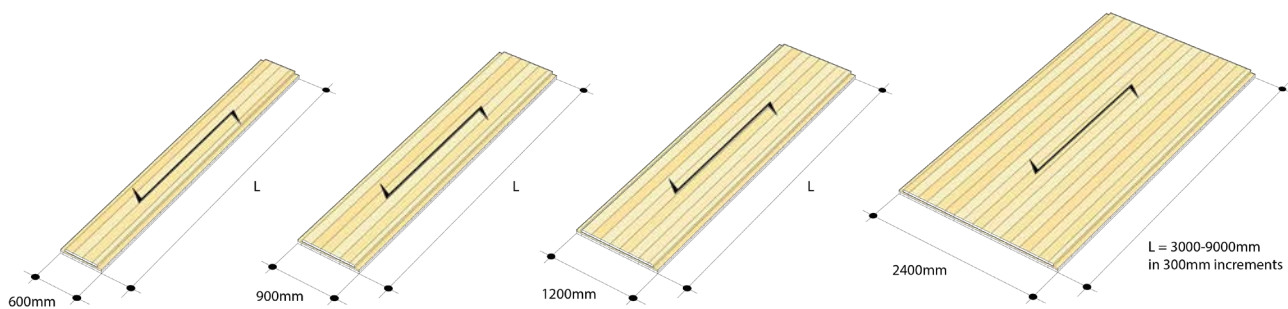
OVERVIEW

Species	Radiata Pine
Width	600, 900, 1200 & 2400mm
Length	3–9m (0.3m increments)
Thickness	XS3/100 (100mm) XS3/135 (135mm)
Treatment	Untreated or T3+ H3 (AUS) H3.2 (NZ) equivalent
Average Panel Mass	~47.5 kg/m ²
Joint Group	JD5

XLT Span is manufactured as part of XLAM's XLT range, a next-generation laminated timber system designed residential and light commercial applications.

While all feedstock is pre-graded before arriving at XLAM, we conduct additional in-house strength testing to ensure every batch meets our stringent quality benchmarks. The radiata pine feedstock is then finger-jointed and bonded to create solid lengths. Each XLT Span panel is crafted through cross lamination, where multiple layers of structural pine laminates are laid perpendicular to one another. This cross-grain alignment significantly enhances structural strength, stability, and span capability.

Once graded and verified, the timber layers are bonded with high-performance adhesives and pressed. The result is a solid, high-quality panel that delivers reliable structural performance.



STRUCTURAL PROPERTIES

Bending Strength (MPa)	Shear Strength (MPa)	Compression perp. to grain (MPa)	Modulus of Elasticity (MPa)	Density (kg/m ³)
12.0	2.1	6.0	6000	475

* In design for crushing, engineers may opt to use a value of 3 MPa – Refer 'Technical Note 5.2 Sample Structural Calculations Floor and Wall Design' for more information.

XLT SPAN FLOOR

Maximum panel span (m)

	Live Load (Q)	Q = 1.5kPa 150 kg/m ²			Q = 2kPa 200 kg/m ²			Q = 3kPa 300 kg/m ²		
		0.5 kPa 50 kg/m ²	1 kPa 100 kg/m ²	2 kPa 200 kg/m ²	0.5 kPa 50 kg/m ²	1 kPa 100 kg/m ²	2 kPa 200 kg/m ²	0.5 kPa 50 kg/m ²	1 kPa 100 kg/m ²	2 kPa 200 kg/m ²
Simply Supported	100	2.8	2.6	2.2	2.7	2.5	2.1	2.5	2.3	2.0
	135	3.5	3.3	2.9	3.4	3.2	2.6	3.1	2.9	2.6
Continuous	100	3.5	3.2	2.9	3.4	3.2	2.9	3.4	3.2	2.8
	135	4.3	3.9	3.5	4.2	3.9	3.5	4.2	3.9	3.5
Cantilever	100	0.8	0.7	0.6	0.7	0.6	0.6	0.6	0.6	0.6
	135	1.0	0.9	0.8	0.9	0.8	0.8	0.8	0.8	0.8

Note: For full span tables, fixing details, and installation information, refer to the XLT Span Technical Guide document. Designers should also refer to the design parameters and the XLAM Structural Design Guide when using XLAM span tables.



Detailed product description and technical guide are available at xlam.co/xltspanguide



DESIGN PARAMETERS

- Self-weight of the panels is included within the tables. All additional applied dead loads should be included in the value chosen for SDL.
- Span tables assume uniformly distributed loads across the whole panel and no point loads or pattern loads have been accounted for.
- The cantilever design assumes a back span of 2.0 times the cantilever length. Different back span lengths can have a large effect on the cantilever span.
- Pattern live loading on the cantilever and back span has not been considered in these tables. These tables account only for the uniform load on both cantilever and back span.
- Spans in the table above are deflection limited to the lesser of $\text{Span}/400$ or 9mm. Bearers should be sized to limit overall deflections of the floor to the lesser of $\text{Span}/300$ or 15mm. Cantilevers are limited to $\text{span}/200$.
- Full responsibility for the design and compliance with the Building Codes of Australia and all relevant Australian Standards rests with the design professional specifying and certifying the product. XLAM will not accept any liability for the failure of any other elements of the building which cause a subsequent failure of an XLAM product.



XLAM

**BUILD LIKE
THE WORLD
DEPENDS ON IT.**

[XLT ORDERS](#)

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MASS TIMBER MADE EASY.



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