



 **XLT FLOOR**
NATURALLY INSULATED FLOOR **BY XLAM**



XLT is a range of products by XLAM that bring the benefits of mass timber to residential and light commercial construction. XLT products are 'ready made' building materials, including energy efficient flooring, structural flooring, beams, floor cassettes, bracing systems and portal structures.

Mass timber is strong, sustainable, durable and offers improved insulation properties. The XLT range is made from Australian grown plantation pine offering simple on-site alterations, easy handling and fast install. Using timber alternatives means that you can minimise the reliance on steel fabricators and pair timber XLT products with timber framing.



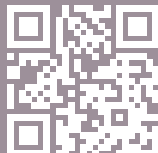
AUSTRALIAN
GROWN & MADE



Responsible
Wood



PEFC
PEFC/21-31-15



XLT FLOOR

XLT Floor is a laminated timber floor panel, manufactured using robust mass timber production techniques to deliver strength, consistency and performance. When laid together, they create a solid floor which offers superior sound and thermal insulation, keeping homes warmer in winter and cooler in summer.

Panels are dimensionally accurate and provide a well-founded and flat base for floor coverings like carpet, hardwood, or vinyl.

Because XLT Floor panels are lightweight, they can be easily handled and installed on site. And as they offer additional thermal insulation they can contribute significantly to the NatHERS Star Rating of a build.

XLT Floor 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 regions 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 Floor is a dual-layer solid wood panel made of plantation pine. The layers are bonded together, creating a strong and versatile structural floor that offers the natural insulation benefits of timber.

As XLT Floor is made from timber, it is highly workable, can be nailed or screwed, cut on length on site, and is relatively lightweight.

Not only are XLT Floor panels manufactured here in Australia, the timber used to manufacture each panel is grown in local plantations which carry full PEFC chain-of-custody certification ensure it is sustainably sourced.





XLT FLOOR BENEFITS



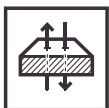
Thermal Insulation:

An impressive $0.5\text{m}^2\text{k/W}$ thermal rating shields the build from temperature change and lowers heating/cooling costs.



Environmentally Responsible:

Made from plantation pine that absorbs carbon from the atmosphere as the tree grows. Trees are regrown creating a cycle of carbon sequestration.



Sound Insulation:

XLT Floor achieves $R_w = 34\text{ dB}$ for minimal sound transference.



Solid Under Foot:

XLT Floor is made from solid mass timber and offers a solid feel.



XLT FLOOR ON THE JOB SITE



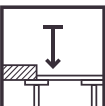
**No Sanding Required/
Dimensionally Consistent:**
Made with strict dimensional accuracy,
so that floors are flat and ready for
coverings.



Weather Resistant:
Weather-resistant membrane helps
keep the system dry during install, with
installation tape recommended for
enhanced protection.



Lightweight & Easy to Handle:
Each panel weighs approx. 50kg and can
be easily laid in place without the need
for winches or cranes.



No Wet Area Set Down:
The 60mm panel depth allows joists to
remain at a constant depth, with no set-
down required in wet areas when used
with FC sheet or similar.

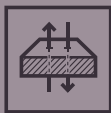


Strong & Stable:
The XLT Floor panels are engineered to
support a live load of 1.5kPa with a joist
spacing at 600mm centers.

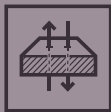
XLT FLOOR

XLT Floor is a durable laminated flooring panel made from sustainable Radiata pine, designed for Australian residential builds. Its dimensions make it a suitable replacement for materials like 19mm particle board, 35mm concrete, and 75mm AAC floor systems.

KEY SPECS



SOUND INSULATION
Up to $R_w = 34$ dB



THERMAL INSULATION
 $R = 0.5 \text{ m}^2\text{K/W}$



MANUFACTURING TOLERANCES
 $\pm 2\text{mm}$



WEIGHT
~50kg/panel



CARBON ABSORBED
10x panels sequester
0.5 tonne CO_2



PLANTATION REGROW TIME
10x panels in 5.4 seconds

OVERVIEW

Species	Radiata Pine (untreated)
Width	600mm
Lengths	2700mm & 3000mm
Thickness	60mm
Panel Weight	47kg / 52kg
Joint Group	JD5

XLT Floor is a laminated timber product (XLAM laminated timber) using similar processes to CLT production.

Finger-jointed Radiata pine feedstock is applied with well established feedstock material properties. All material is supplied to XLAM pre-graded but we also conduct our own in-house testing of the timber to ensure that the specifications below are met. Properties of XLT Floor panels have been tested in accordance with AS/NZS 4063.1.

The laminated XLT Floor panel may be considered to have equivalent structural performance to an F5 solid Radiata pine section.

NCC COMPLIANCE

RESIDENTIAL APPLICATIONS

At the nominated span limits of 450mm and 600mm, XLT Floor exceeds the minimum requirements for Radiata pine flooring nominated in AS 1684.2:2021 Residential timber framed construction: Part 2: Non-cyclonic areas (Section 5.7) thereby meeting the DTS provision of NCC 2022 Volume 2 (Class 1 Buildings).

Screw-fixings in accordance with AS 3566.1 or nails to AS 2334. Refer to XLT Floor standard fixing details for further information.

LIGHT COMMERCIAL APPLICATIONS

XLT Floor meets the requirements of AS 1720.1 Section 1.3.1(h) with properties established in accordance with AS/NZS 4063.1 meeting the DTS provisions of NCC 2022 Volume 1 (Class 2-9 Buildings).



STRUCTURAL PROPERTIES

Bending Strength (f'b) (MPa)	Shear Strength (f's) (MPa)	Compression perp. to grain (f'p) (MPa)	Modulus of Elasticity (MPa)	Density (kg/m ³)
12.0	1.9	6.0	6000	500

LOAD CAPACITY

Application	XLT Floor Self-Weight (kPa)	SDL Finishes + Ceiling (kPa)	LL Distributed Load (kPa)	LL Point Load (kN)	Max. Joist Spacing (mm)
General Areas - Residential	0.3	0.7	1.5	1.8	600
General Areas - Commercial	0.3	1.0	3.0	4.5	600
Stairs & Landing Areas - Residential	0.3	0.7	2.0	2.7	600

Max. joist spacing is based on the application and the requirements of AS1684.2:2021 Section 5.7 and AS/NZS1170.

SDL: Superimposed dead load

LL: Live load

Note: 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.

Detailed product description and
install instructions available at
xlam.co/xltfloorinstall





FLOOR SYSTEM COMPARISON

SYSTEM PROPERTY	XLT Floor	Alpha Floor	Particle Board
Material	Radiata Pine	Concrete	Pine
Thickness	60mm	35mm	19mm
Weight	30kg/m ²	35kg/m ²	16kg/m ²
Sound Insulation	R _w = 34 dB	R _w = 37 dB	R _w = 26 dB
Thermal Insulation	R = 0.5 m ² K/W	R = 0.13 m ² K/W	N/A
Sustainability	Renewable & Fast Growing	High Carbon Footprint	Limited
NatHERS Comparison	6.2 Star	6.1 Star	6.0 Star



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

[XLT ORDERS](#)

For more information regarding XLT products,
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