



 **XLT CASSETTE**
A LONG-SPANNING SYSTEM FOR FLOORS & ROOFS
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



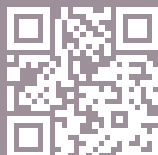
AUSTRALIAN
GROWN & MADE



Responsible
Wood



PEFC
PEFC/21-31-15



XLT CASSETTE

XLT Cassette is XLAM's long-spanning system for floor and roof applications in residential and light industrial projects. Engineered for strength, efficiency, and design flexibility, XLT Cassette provides a smarter way to achieve large, open spans.

Combining XLT Span panels with XLT Beam supports, the system delivers exceptional spanning capability and streamlined installation. With its modular, semi-composite design, XLT Cassette helps projects stay efficient, flexible in design, and on schedule.

XLT Cassette is made by XLAM from sustainably grown, PEFC-certified 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.

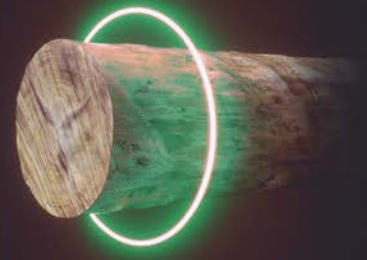
Our production sites are strategically located near our mills for efficient production of our XLT product range.



MADE FROM SOLID WOOD

XLAM's XLT Cassette system is a prefabricated floor and roof solution designed for long spans, design flexibility, and simplified installation. Combining XLT Span panels with XLT Beam supports the system delivers strength, stability, and efficiency in one complete package.

Its large-format, modular design allows fast assembly with minimal onsite work, while open beam spacing makes service integration easy. Made from sustainably grown, PEFC-certified Australian plantation pine, XLT Cassette offers a durable, efficient, and sustainable way to build.

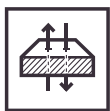




XLT CASSETTE BENEFITS



Thermal Insulation:
A $0.83\text{m}^2\text{K/w}$ thermal rating shields the build from temperature change and lowers heating/cooling costs.



Sound Insulation:
XLT Cassette achieves $31R_w$ for minimal sound transference.



Environmentally Responsible:
Made from plantation pine which absorbs carbon from the atmosphere as the tree grows. Trees are regrown creating a continual cycle of carbon sequestration.



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



Termite and Fungal Resistant:
XLT Cassette panels are available H3 treated with CodeMark-certified T3+ preservative, providing protection against termites, borers, fungal decay, and rot.



XLT CASSETTE ON THE JOB SITE



Superior Spans:
Combining CLT panels with engineered timber beams, XLT Cassette is engineered to achieve spans up to 9 metres.



Fast, Efficient Installation:
The modular nature of the system enables rapid on-site assembly, reducing labour requirements, minimising material waste, and improving overall construction efficiency.



Simplified Design:
XLT Cassette's large panels and simple connections make installation quick and straightforward. Open beam spacing allows easy service integration, with flexible detailing to suit a range of designs.



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.

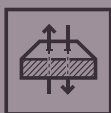


Reduced Waste & Noise:
Enjoy a cleaner, quieter job site with significantly less material wastage and minimal noise pollution during installation.

XLT CASSETTE

XLT Cassette combines engineered XLT Beams and XLT Span panels to create a semi-composite system with superior stiffness and strength. Designed for spans up to 9 metres, it offers an efficient solution for residential and light commercial projects. XLT Span panels are available in standard widths of 600, 900, 1,200, and 2,400mm, and lengths up to 12,000mm, providing flexibility for a wide range of applications. Panels can also be easily docked onsite to achieve exact design dimensions.

KEY SPECS



SOUND INSULATION
Up to $33R_w + C_{TR}$



THERMAL INSULATION
 $0.83m^2K/w^*$
 $1.08m^2K/w^*$



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. 135mm panel thickness.

OVERVIEW

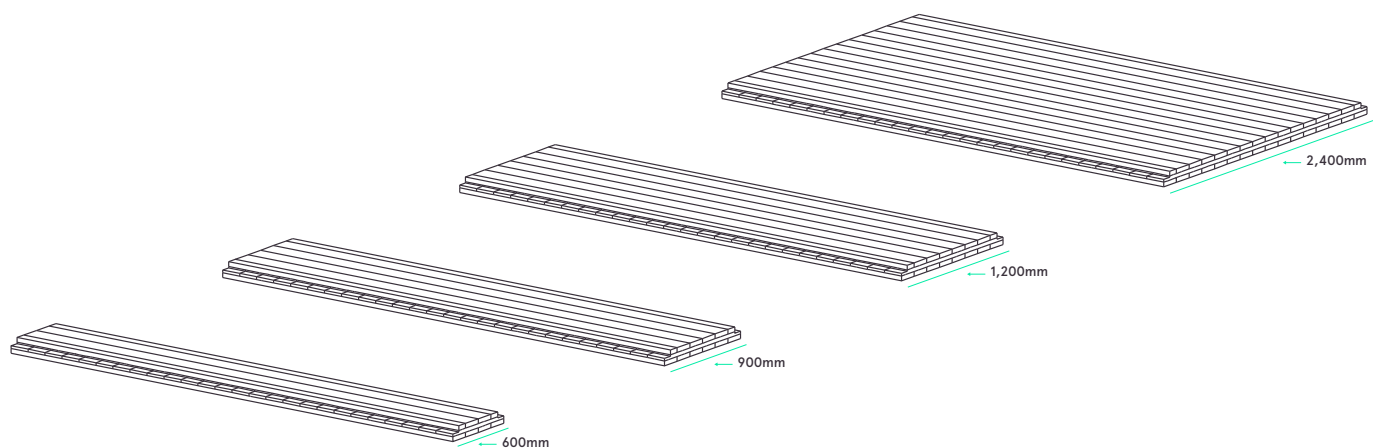
Species	Radiata Pine
Panel Widths	600, 900, 1,200 & 2,400mm
Panel Lengths	1.2-12.0m (0.3m increments)
Panel Thickness	100 & 135mm
Beam Width	90mm
Beam Lengths	3m – 9m in 0.3m increments
Beam Depth	200mm, 240mm, 300mm & 360mm
Treatment	T3+ (AU H3 & NZ H3.2 equivalent)
Joint Group	JD5

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

Each system combines precision-engineered XLT Span panels and XLT Beam supports to form a semi-composite structure with exceptional strength, stiffness, and spanning capability. Both components are produced under strict quality controls using sustainably grown Radiata pine, with all feedstock pre-graded and further tested in-house to meet XLAM's rigorous standards.

The XLT Span panels are crafted through cross lamination, where multiple layers of structural pine laminates are laid perpendicular to one another to enhance strength and stability.

XLT Beams are produced from bonded laminations of the same high-quality feedstock, engineered for consistent performance and reliability. Together, these elements form the robust XLT Cassette system – delivering long spans, superior efficiency, and proven structural integrity.



STRUCTURAL PROPERTIES

XLT SPAN

Bending Strength (f'b) (MPa)	Shear Strength (f's) (MPa)	Compression perp. to grain (f'p) (MPa)	Modulus of Elasticity (E) (MPa)	Density (Kg/m ³)
12.0	2.1	6.0*	6000	475

XLT BEAM

Bending Strength (f'b) (MPa)	Shear Strength (f's) (MPa)	Compression perp. to grain (f'p) (MPa)	Modulus of Elasticity (E) (MPa)	Density (Kg/m ³)
22.0	2.1	10*	10000	500

* 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.



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



XLТ CASSETTE SPAN TABLE

Maximum panel span (m)

	System	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
100mm Thick Panel	XC-300	5.5	5.0	4.3	5.3	4.8	4.2	4.8	4.4	4.0
	XC-340	6.4	5.8	4.9	6.1	5.6	4.8	5.7	5.2	4.6
	XC-400	7.7	7.0	6.0	7.4	6.8	5.9	6.8	6.3	5.6
	XC-460	9.1*	8.3	7.1	8.6	8.0	7.0	8.1	7.5	6.7
135mm Thick Panel	XC-335	6.3	5.7	4.9	6.0	5.5	4.8	5.6	5.2	4.5
	XC-375	7.1	6.4	5.5	6.8	6.2	5.4	6.3	5.8	5.1
	XC-435	8.4	7.5	6.6	7.1	7.4	6.4	7.4	6.9	6.1
	XC-495	9.6*	8.7	7.6	9.3*	8.5	7.4	8.6	7.9	7.1

Note: *Standard maximum panel length is 9m. Longer lengths are available on special order.

Long term deflection factors are taken as $j_2 = 2$

Deflection is limited to the minimum of Span/300 or 25mm.



XLAM

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

[XLT ORDERS](#)

For more information regarding XLT products,
contact XLAM:

AUSTRALIA: +61 429 983 986

NEW ZEALAND: +64 22 103 5429

EMAIL: enquiries@xlam.com.au

XLAM.COM.AU

MASS TIMBER MADE EASY.



Date of Issue: July 2026.
This document supersedes all previous versions.