

THE NEW ERA OF BUILDING IS HERE...



CROSSLAM
AUSTRALIA

...AND TIMBER IS THE CONSTRUCTION MATERIAL OF THE FUTURE

The use of Cross Laminated Timber (CLT) panels is a widely accepted method of construction of multistorey buildings in many countries around the world. The benefits of using CLT stem from the attributes of the natural timber used in its manufacture.

Taking timber and forming it into massive timber slabs creates the CLT Panel, a product with benefits such as:

- **No carbon emissions** from the manufacture of goods that the CLT replaces.
- **Carbon removed from the atmosphere** and captured within the CLT timber mass.
- **Greater value and savings** from constructing lighter buildings.
- **Good insulation properties** with low rates of thermal conduction.
- Structures that are **less vulnerable to seismic activity**.
- **Better fire protection** from the use of solid wall, floor and roof slabs.
- **Robust solid** wall and floor sections.
- **Ease of installation** using CLT's modular building and prefabrication process.
- **Safer working conditions** when moving panels.
- **Product stability** and good manufacturing tolerances.
- Work and living **spaces that are healthier and more comfortable**.
- **Faster** construction times.
- Positive community awareness of CLT as a **ecological and sustainable building product**.
- **Cleaner building sites** with little or no wet trades.



Our CLT is manufactured from timber sourced from sustainable forests across Australia. The majority will originate from Western Australian renewable pine forests. We choose a local product because it is our companies intent to achieve the smallest carbon footprint possible.

The CLT panel is a matrix of timber lamellas glued together under very high pressure. The finished panel is strong enough to span in multiple directions, similar to a concrete slab. CLT offers engineers an alternative that is strong and environmentally responsible.

Given much of a buildings engineering and cost is dedicated to supporting its own weight, CLT offers

a sensible alternative to the use of concrete. CLT buildings are also lighter and more cost effective.

CLT also performs well in fire conditions. Unlike steel or concrete that fail dramatically when exposed to a high temperature, timber will char, but maintain its strength under load. The solid timber panels also work well in deadening the transmission of noise.

In Australia, CLT meets all the engineering conditions required for it to be used instead of concrete, steel and brick. In circumstances where there is a requirement for another material to be used, CLT can work seamlessly with that material and Crosslam Australia can engineer and detail these connections.

Forte, by Lend Lease Melbourne.

SERVICES

Crosslam Australia is not just a manufacturer of CLT. We offer a complete service to design the product into your building.

INTEGRATION AND ENGINEERING

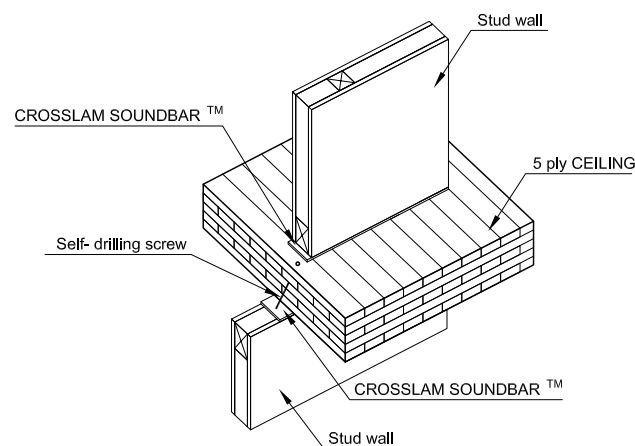
As part of our service, we integrate the product into a 3D model and test its' performance within the structure. Our engineers then certify the design for Australian building compliance.

When you speak to Crosslam Australia, you work with a qualified Australian engineer who will guide you through your design and product selection.

CONSTRUCTION DETAILS

Crosslam Australia has a library of details that can be used for building with CLT.

Depending on your location and the particular finishes you require, we will be able to assist with a straight forward and easy-to-use detailing service to ensure your sub-contractors understand the scope of work. We can also consult on products that work efficiently with CLT and offer the greatest value to fit your design.



FIRE ENGINEERING

Our engineers can co-ordinate product detailing with your fire engineer to aid the certification of the structure.

QUOTING YOUR WORK

Quoting a project requires the client to provide Crosslam Australia with documents that meet specific criteria. A 2D or 3D CAD drawing, that has been submitted for design approval, will provide us with sufficient information to develop and supply a detailed quote. Crosslam Australia can also provide design assistance, if required.

When a quote is accepted by a client, an order is raised and confirmed. We then proceed to further specify the project plans, including a list of details, CLT components and fixings, project delivery schedules, any special erecting requirements and a sequence of delivery of goods to site. These documents are provided to the client for verification and when confirmed, will lead to the commencement of production and delivery.

SUPPLY AND INSTALLATION

Delivery, sequencing and installation documents for CLT are produced as a part of our service. Delivery to site is managed directly with your builder or project manager.

Crosslam Australia is able to organise the contracting and installation process if required.

The majestic Elephant house at Zurich Zoo was constructed in 2014 using European sourced CLT.

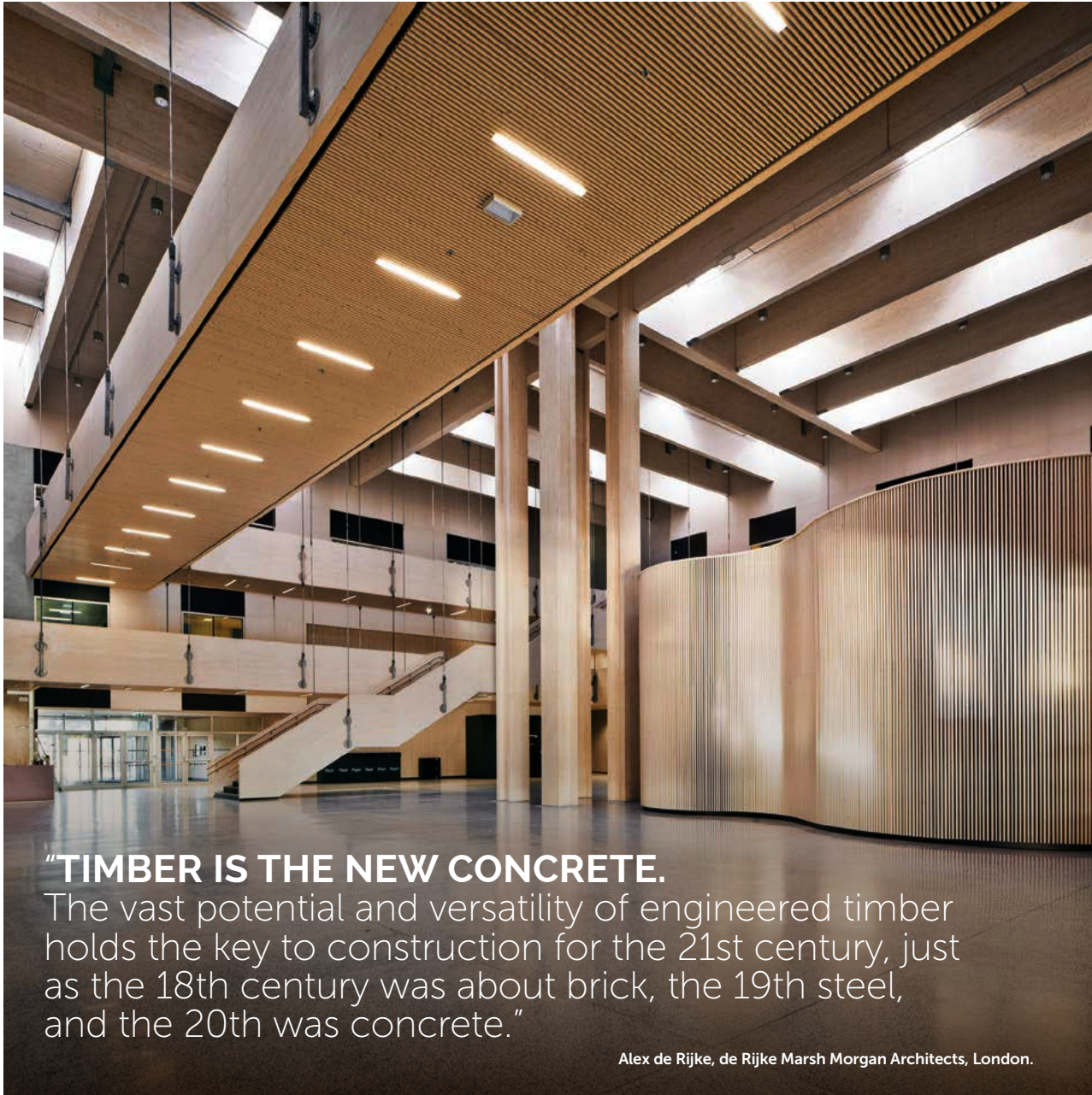
Alternatively, should you wish to handle the construction process, Crosslam Australia can advise on requirements, including the listing and detailing of lifting points and any special installation equipment.

TRANSPORT TO SITE

Transport is handled by Crosslam Australia to ensure the product arrives at the site safely and ready for installation. The client is required to complete a questionnaire that will stipulate any special requirements that may compromise the delivery.

Further information, including how to handle and store the product on site, is supplied with delivery.





“TIMBER IS THE NEW CONCRETE.

The vast potential and versatility of engineered timber holds the key to construction for the 21st century, just as the 18th century was about brick, the 19th steel, and the 20th was concrete.”

Alex de Rijke, de Rijke Marsh Morgan Architects, London.

GRADES OF TIMBER SURFACES PROVIDED BY CROSSLAM AUSTRALIA.

Visual grading is in accordance with AS 4785-2001 (R2016)

Non-Visual Grade

UTL Standard panel finger-jointed-board

Visual Grades

AP One side only for industrial application non-finger-jointed exposed*

CL One side only for architectural application non-finger-jointed exposed*

* All visual grades are manufactured to customer requirements.

Fire protection is based on type and use of panels.

Insulation properties based on U value build ups. Refer to Crosslam Australia for more information.



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AUSTRALIA

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