



# Laminated Timber Projects

Commercial buildings and special applications





HYNE BEAM 17



HYNE BEAM 17



HYNE BEAM 21

## Hyne Laminated Timber Projects

Hyne is an Australian manufacturer of locally grown structural timber products made primarily from renewable Australian plantation softwood. As a privately owned Australian company, we offer a complete and comprehensive range of engineered timber products marketed as Hyne Laminated Timber Projects

Hyne Laminated Timber Projects can bring plans and projects to life, creating unequalled design flexibility and the strength to handle almost any load. With proven performance for strength and structural integrity, Hyne Truebeams are perfect for a wide range of commercial or industrial building projects and for multi-residential construction.

Hyne LTP provides confidence in a cost effective design outcome that is supported by our fully certified engineered timber design software package, Hyne Design. Hyne can supply and deliver to your specific requirements and back everything up with a friendly, highly specialised technical sales team.

We're confident, when you consider all of the benefits of our Hyne LTP, that you'll choose them every time.

### **Design Flexibility. Structural Integrity.**

This comprehensive engineered timber range contains new generation, high performance products to simplify construction, improve structural integrity and offer unequalled design opportunities.

#### **Hyne Beam 17**

The strongest softwood, traditionally glue laminated beam in the market and can even be H3 treated for external applications. Hyne Beam 17 is ideally suited where superior performance coupled with ease of construction makes it a natural choice.

#### **Hyne Beam 18**

Our light coloured Australian hardwood laminated beam that provides an alternative to Hyne Beam 17, suitable for internal applications particularly where appearance that displays the warmth and character of the light coloured laminates is preferred.

#### **Hyne Beam 21**

Big, bold and beautiful. That's our traditional, high strength glue laminated beam that's also naturally durable. Available as a special order, Hyne Beam 21 has been specifically designed for high load, appearance applications.

#### **Hyne LVL**

LVL has been the proven performer in engineered timber over a couple of decades. With a high strength to weight ratio, Hyne LVL provides many advanced building solutions in floors and roofs as well as for lintels and beams.

For more information and full specifications visit [hyne.com.au](http://hyne.com.au)



Front Cover Main Image: Interior of Cabramatta church using Hyne Beam 17



## Benefits

### The versatility to create

Available in Hyne Beam 17, 18 and 21 structural and appearance grades with a high strength-to-weight ratio and the workability of timber, Hyne Truebeams can add a dramatic finish to any project. Hyne Truebeams can be shaped or curved to create spectacular long-span, feature ceilings or used as impressive support beams and columns.

### Suits any budget

Timber is one of the most economical building materials available. Not only is the initial material cost more viable, but the combined handling and shipping component is greatly reduced.

Hyne Truebeams can also be easily integrated with other building materials such as concrete, brickwork, blockwork and steel. This versatility combined with the ease and speed of construction makes for very cost effective building solutions.

### Environmentally responsible

With a growing focus on building materials that have low environmental impact on the construction site, for any building materials to be truly green, it's all about where they're sourced and the environmental impact of their manufacture. Responsibly sourced plantation timber products such as Hyne Truebeams, are one of only a few building materials that actually help to reduce greenhouse gas emission.

### Ease of construction

Hyne Truebeams are lightweight, easily handled and can be effortlessly combined with simple, high-tech connections to make construction simple and fast. They don't require special equipment to cut and can be worked using available labour skills.

### Available when you need it

Hyne Truebeams are generally made from plantation pine and are ready to go when you are. Our streamlined manufacturing process keeps costs down and stocks high.

### Suitable for use in more places

Timber is incredibly durable and very resistant to conditions that would weaken other materials. Hyne Truebeams can provide excellent results in highly corrosive environments such as swimming pool enclosures and galvanising plants.

Under the Timber Structures Code AS1720.4 Hyne Truebeams can be designed for fire rated building components and rate equivalent to, or better than, steel in industrial applications. Other materials may melt and collapse where timber could just char.

### We share our expertise

Hyne's extensive knowledge of engineered timber beams is available to you through our flag ship software program, Hyne Design, or alternatively you can speak to one of our experienced technical representatives. Either way Hyne can help to provide design solutions for many applications.

### Reliability built in

Hyne Truebeams reliability is third party certified through the Glue Laminated Timber Association of Australia and Quality Management certified ISO 9002 and Hyne LVL is EWPA approved.

Hyne Truebeams are manufactured in accordance with strict environmental, workplace requirements. Hyne mills and plantations adhere to the Australian Forestry Standards, are compliant with the National Code of Practice Workplace Relations Act of 1996.

This all ensures that Hyne delivers on our promise to supply innovative products that are structurally superior, cost effective and easy to install with a minimal impact on the environment.



## Mingara One Fitness Centre



With health and wellbeing its central philosophy, Mingara One Fitness Centre, located on the New South Wales Central Coast, wants its members to feel inspired by their impressive surrounds.

Mingara Recreation Club, together with Sandy Strazds of Graphite Architects, had specific ideas about what the centre was to look like, but logistically, the scale of the building made things difficult when it came to implementing the design.

The external façade of the centre is nine metres in height and Graphite Architects wanted to specify striking timber blades that reached the full height of the building, rather than panelling.

"These timber blades were fundamental to our design to offer sunshading to the fully glazed western façade of the building, while still offering filtered views," said Sandy.

"The product we were looking for wasn't readily available from a range of companies. We wanted a beautiful, single, solid element that would span both floors, and Hyne supplied the one product that would do all of that for us."

That product is the Hyne Beam 21 – a laminated beam produced from richly coloured and textured Australian red hardwoods. It is a naturally durable, termite-resistant timber that has an outstanding record for strength and performance.

Another factor that helped make the decision to use Hyne Beam 21 was its appealing looks. With the aim of encouraging members to improve themselves on the inside and out, the aesthetics of the centre needed to match those values. The result is visually very appealing. "It looks great. It's come up really, really well," Sandy says of Mingara One, which was completed in October 2008.

Hyne has been in operation since 1882, and the Hyne family's involvement in the timber industry spans five generations. The combination of these facts makes it hard to look past Hyne for experience and quality products. Sandy agrees wholeheartedly. "Dealing with Hyne was easy and they were very professional. The logistics of project has surpassed our expectations," she said.

As the members of Mingara One Fitness Centre work to tone their thighs and improve their wellbeing, they do so in a facility that is beautiful to look at and strong to the core.



HYNE BEAM 17 H3 LOSP TREATED



HYNE BEAM 17 H3 LOSP TREATED

## Shapland Swim Schools

Shapland Swim Schools have been in the business of teaching kids to swim for more than 35 years. The purpose-built school facilities are located throughout South East Queensland, and CEO Chris Shapland knows that an important part of the durability and comfort of his swim centres is the materials they are constructed from.

The last two swim schools that Chris Shapland has built have featured Hyne Beam 17 H3 treated portal frames from the engineered Hyne Truebeams range. This range is particularly suited for roof spans over large spaces and is treated for weather-exposed structural applications, where both strength and appearance are important design requirements.

Chris specified Hyne Beam 17 H3 treated beams for their strength, durability and ability to handle their corrosive environment – housing heated pools at 32 degrees.

He noted that “the beams are wet regularly, which means you can’t use any other product. You could use aluminium but it corrodes over a period of time – soft metal beams are just hopeless after one season.”

Shapland needn’t worry about that problem with the Hynebeam 17 H3 treated portal frames – as they are treated with Construction Sealer at the factory and then Chris maintains them with a painting and after care regime which will protect the softwood from the elements.

Learning to swim can be a frustrating and sometimes daunting experience, and that is why Shapland strives to ensure his centres are built with the comfort of both parents and children in mind.

One of the hazards of indoor pools is that humidity levels can be unbearable, as well as the likelihood of the building eventually being destroyed by rot and decay. But Shapland Swim Schools utilise a specific design and maintenance scheme which thwarts this problem.

“The frame gives me the ability to put a separate building over the pool, like a separate enclosure. The pool’s totally enclosed and once you get inside you’re protected from all the elements,”



HYNE BEAM 17 H3 LOSP TREATED

says Shapland. In Queensland’s hot, humid summers, having this flexible state-of-the-art design allows the sides to be elevated, allowing air flow to stabilise temperature.

Shapland concedes that compared with some of the large companies that Hyne supply, Shapland Swim Schools is a “micro customer”. But this doesn’t affect Hyne’s exemplary service standards. “In terms of making delivery dates and accommodating us, you just couldn’t ask for a better company to work with,” says Shapland.

As for Hyne’s products, Shapland acknowledges their quality and their longevity. “The reason we chose Hyne laminated timber was for its durability in that environment. We’re hoping to get – I don’t know how many years out of these frames – a long time, with relatively low maintenance,” he says.

When they choose Shapland Swim Schools, parents know that the environment where their children are being taught some of life’s most important lessons in is a comfortable and safe one.



## Multi-residential construction

Multi-residential timber framed construction (MRTFC) is used throughout Australia in a variety of construction types. The construction technology has been successfully applied for many years with outstanding results.

Multi-residential timber framed construction provides a viable alternative to concrete and masonry construction for architects, designers, engineers, developers and builders in addition to the benefits associated with timber construction.

### Benefits of using MRTFC systems

- Rapid construction timber, enabling savings on large overheads and holding costs.
- Decreased pressure of loads on footings and transfer slabs, due to weight factors from light timber frame.
- Simplified construction program, requiring only a single contractor for the entire framework.
- Easier and faster installation of electrical and plumbing services.
- Superior acoustic performance characteristics.
- Fire resistant walls.

The basic premise behind MRTFC is the utilisation of fire and sound-rated timber framed wall and floor systems to provide for vertical and horizontal separation between dwellings.

The BCA permit full timber framed construction including fire and sound-rated timber separating wall and floor/ceiling systems across the following Classes of construction.

- **Class 1** – Residential townhouse, terrace, villa units.
- **Class 2** – Sole occupancy units, buildings to three storeys – four storeys where the ground storey is in concrete/masonry car park.
- **Class 3** – All buildings to two storey.

### Cost effectiveness

The use of lightweight drywall systems have been shown to provide significant cost savings compared to concrete/masonry walls, as have the use of timber floors when compared to concrete slabs. MRTFC uses construction techniques and materials which allow full utilisation of the carpenter's services, while eliminated wet trades

such as bricklayers and block layers, resulting in an improved workflow and less down-time.

### Speed of construction

This is one of the main cost reduction factors since it allows for minimisation of holding costs, interest savings on investment loans, reduction of labour costs and faster property turnover. In addition, transporting, scaffolding and project/site management costs can be minimised. Feed back from the building companies has indicated material and labour savings of between 12-30% in the construction of MRTFC separating walls when compared to concrete blocks, tilt-up concrete panels or double brick wall systems.

### Design Flexibility

Timber can be easily handled on site and architectural features can be incorporated cheaply and with great ease, using different products to enhance aesthetics; thus adding value to the project.

### Environmentally Friendly

In addition to all its other benefits, MRTFC is also the most environmentally friendly construction system as it uses the only truly renewable resource – timber. Given Australia's expanding plantation supplies, combined with its sustainable native forest harvesting, the future availability of timber is assured. The environmental attributes to timber, together with its thermal/insulating and strength characteristics, make it the ideal construction material choice for architects, builders and specifiers.

### MRTFC Support Documentation Material

A comprehensive three part suite of manuals has been produced by the timber industry. These manuals include substantial information on the approved timber wall and floor/ceiling systems, and the methods of designing and constructing MRTFC buildings to comply with the Building Code of Australia.

They can be obtained from a number of Timber Industry Associations:

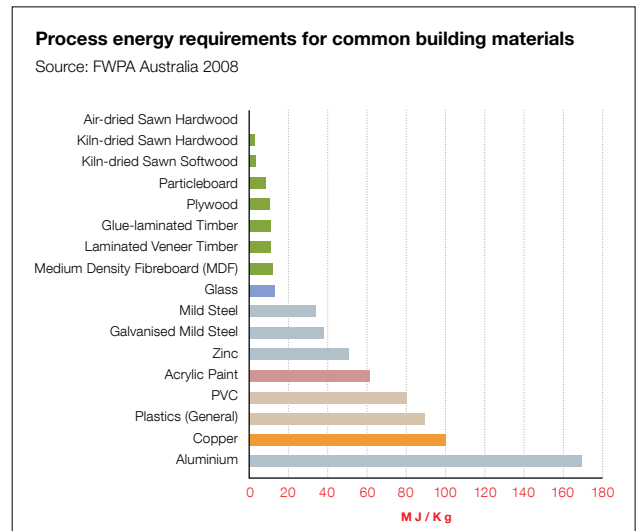
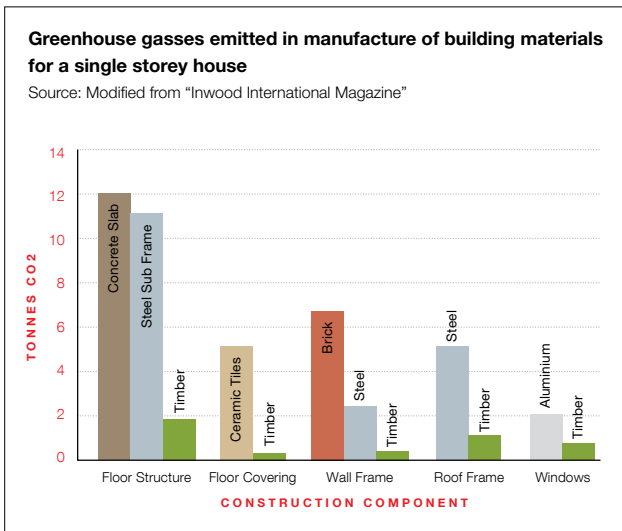
Forest and Wood Products Australia [www.fwpa.com.au](http://www.fwpa.com.au)

Timber Development Association (NSW) [www.timber.net.au](http://www.timber.net.au)

Timber Queensland [www.timberqueensland.com.au](http://www.timberqueensland.com.au)

Information supplied by Forest and Wood Products Australia.

Hyne is leading the way in the Australian timber industry with environmentally friendly timber products that support Australia's targets for a lower carbon future. The greenhouse footprint of Hyne products shows that they continue to store carbon long after the timber is felled. With most of the carbon remaining locked in the wood even after end of life re-use, re-cycling or disposal to waste. We are also in the process of implementing realistic energy saving targets for each Hyne operation and location.



**Green Building**

As a member of the Housing Industry Association (HIA), Hyne is a committed Greensmart Partner. The choice of Hyne timber products over alternative energy intensive building materials including concrete, masonry, steel and aluminium, has a substantial impact on carbon emissions. Research undertaken by the Forest and Wood Products Association found that 25 tonnes of carbon per average Australian home can be saved by choosing timber wherever possible.

Hyne is working with other producers and with the Australian Forestry Scheme (AFS) for review of the Mat 8 Sustainable Timber Guideline by the Green Building Council of Australia (GBCA) for the inclusion of Environmentally Certified forest products sourced from Plantation Forests managed to the Australian Forest Standard AS4708 (Int) – 2003 thus making these products eligible for green star points allocation.

**FOREST CERTIFICATION & CHAIN OF CUSTODY**

**Certified Forest Management**

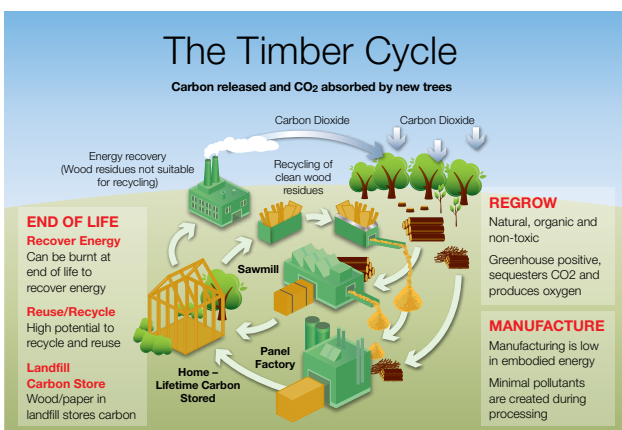
All of the softwood resource used in the production of Hyne's products is sourced from sustainably managed plantations in Queensland, New South Wales and Victoria. These forests are independently certified for compliance with the Australian Forest Standard AS4708(Int)-2003 (AFS) under Australian Forest Certification Scheme. The AFS has mutual recognition by the Programme for the Endorsement of Forest Certification Scheme (PEFC). PEFC is the world's largest forest certification organisation.



**Chain of Custody**

Hyne currently has Chain of Custody (CoC) Product Certification for Hyne Araucaria from the Mary Valley and for Hyne Trueframe produced at our Tuan and Tumarumba mills. We are currently undertaking implementation of CoC Certification for Hyne Truebeams and expect this to be completed early 2009.

This Chain of Custody Certification guarantees for Hyne's customers and end-users of Hyne products that the products have been sourced from softwood plantation forests that comply with the Australian Forest Standard (AFS/PEFC).



**For additional information visit**

[www.hyne.com.au](http://www.hyne.com.au)      [www.foreststandard.org.au](http://www.foreststandard.org.au)  
[www.greensmart.com.au](http://www.greensmart.com.au)      [www.naturallybetter.com.au](http://www.naturallybetter.com.au)



## Hyne Product Info Service

T: 1300 30 4963 (Hyne)

E: [info@hyne.com.au](mailto:info@hyne.com.au)

[hyne.com.au](http://hyne.com.au)



PRINTED ON MEGA RECYCLED FSC PAPER  
MADE FROM A BLEND OF RECYCLED AND FSC FIBRES  
REVISED FEB 2012