



## Laminated Timber Projects



### **AMBERLEY RAAF FITNESS CENTRE**

Hyne was involved with this project from the preliminary design and engineering stages. To achieve the 20.4 metre length needed for the 38 main rafters used throughout the building, Hyne designed and fabricated a hidden epoxy dowel joint system which made for easy assembly on site.

Joining the shorter lengths on site greatly reduced the transportation costs. Delivery involved nine extendable semi-trailer loads over an eight week period, with installation by the contractor Thomas & Coffey taking place starting at the gymnasium section and finishing over the pool section of the project.

As well as the rafters, Hyne also supplied the materials used in the skylights and also the purlins. All the members supplied are either Hynebeam 17 Plantation Pine Glulam or Hyne LGL Plantation Pine Laminated Glued Lumber, both products are treated to hazard level H3. Treating the Hynebeams and the Hyne LGL to H3 is a very cost effective way of providing protection against the harsh environment that occurs in an indoor swimming pool. Combined with good design and an appropriate finishing system the RAAF can expect this building to perform well with few maintenance requirements.





All the Hynebeams used at the Amberley site were manufactured & fabricated at the Hyne Glulam plant located at Maryborough in Queensland. All the products were manufactured in accordance with AS/NZ 1328.1 and Accredited Quality Management Systems ISO 9001 – 2008. Both the Hyne Glulam plant & the Hyne Sawmill at Tuan have Chain of Custody (CoC) which guarantees that the products used in this project have been sourced from softwood plantation forests that comply with the Australian Forest Standard. (AFS/PEFC).

Research has shown that the use of timber products results in a much smaller carbon footprint than energy intensive building materials such as steel, aluminium, concrete and masonry. Every timber member also represents carbon stored for the life of the timber.

## Project Team

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|------------------|---|
| <b>Architect</b> | Conrad Gargett Architecture +61 7 3229 3555 |
| <b>Engineer</b>  | Bonacci SKM Joint Venture                   |
| <b>Builder</b>   | Thomas & Coffey 07 3908 8000                |
| <b>Client</b>    | Australian Government Department of Defense |

## Hyne products used

|                       |  |
|-----------------------|--|
| <b>Rafters</b>        | 920 x 135 Hynebeam 17S Select Grade LOSP H3      |
| <b>Purlins</b>        | 260 x 85 Hynebeam 17S Select Grade LOSP H3       |
| <b>Skylight Beams</b> | 525 x 83 and 755 X 83 sizes Hynebeam 17C LOSP H3 |
| <b>Connections</b>    | Hidden Epoxy Dowel                               |

