Holy Trinity Church
John Dory drive
Ocean Grove
Victoria

This impressive Award winning timber structure recently completed in Victoria, Australia used materials, design and manufacture originating from New Zealand.

The original design and concept of the Holy Trinity Church as prepared by local architect Carrie Fleming and discussed with Timber Engineered Structures in November 1999. Original pricing for seven 33 metres curved and cantilevered roof beams to carry a metal roof was prepared through Toscano Architects and pricing estimates were conducted after an initial design was prepared by Mark Batchelar.

Entry to the site from the north west was through a large curved masonry block wall and cross that creates a view of seven individually curved laminated beams which were perpendicular to the length of the building. The concrete raised beam connections create a ceremonial walkway adjoining a timber sleeper pathway to the entry at the opposite south east end of the building.

The resultant structure has a soaring open effect and the seven beams cantilevered to protect the northern wall and floor to roof glass six metres high.

The structure recently won the 2002 Australian Timber Design Award for “Best use of Timber Engineering”

The building lay out called for a tapered plan utilising seven curved glulam beams comprising a pinned connection seven metres externally straightening over 22 metres to a three metre reducing cantilever. The resultant structure was an impressive open plan building utilising folding glass window/door panels with a north facing aspect.

Size of the H3 treated pine beams varied from 855m x 180mm beams spanning 21.827 metres to 675 x 180mm beams at end grid spanning 15 metres.

Each beam on the seven gridlines were different depths to accommodate a flush upper edge to lay the metal deck roof and ply lining.

Total cost of the glulam beams including hardware and connections as $104,000.00. The beam package was delivered over a weekend with a 33 metre extendable rear steered flat bed truck and trailer with police escorts and a 50 tonne crane to offload at the site.

The package weighted 17.5 tonnes with a height of 1.5 metres and overall length of 33 metres.

- Architect -Toscano Architects, Original concept: Carrie Fleming Architect
- Engineers – Ove Arup and Partners – Civil Design
  P.S.V. Consulting – Checking Engineer
  Mark Batchelar – New Zealand
- Builder – E.J. Lyons and Sons Pty Ltd – Geelong
  Project Manager: Adam Gordon
- Client – Roman Catholic Trust Corporation
- Glulam Manufacturing – McIntosh Timber Laminates Ltd – New Zealand
- Contract , Admin Co-ordination – Timber Engineered Structures – Melbourne
- Assembly/Erection – A.P. Wallace Building Contractor
- Timber Beams – H3 Treated NZ Radiata Pine
- Beam delivery – delivered to site 26th August 2001 via extendable rear steered vehicle.
  Two bundles containing 32 & 28 metre curved beams