



Combining the Expertise of.....





76 years Leading Development Engineered Timber Solutions

TimberLab Solutions Ltd

Australasia's Most Experienced Manufacturer

Owen Griffiths – Marketing Director

'Engineered Wood Products - from here to the future'



Australian Timber Industry Seminar 2014

Engineered Wood Products



'Engineered Wood Products from here to the future' Australian Timber Industry Seminar 2014



Engineered Wood Solutions

the Future is Here





An Industry with Aspirations

To see a Greater use of EWS in Australasia





Where Industry focused?

Throughout value chain What drives our Aspirations

- Product Push
 - Market Pull
- Who is Market What looking for.
- Who Designers, Engineers, Architects, Building Owners
- What Efficient, Effective, Reliable, Sustainable Solutions



How to Achieve Aspirations

Supply chain collaboration & cooperation Look for complementary partners

Use the BEST to do the BEST

Experience counts.

Stick to what good at!

Continuous improvement

Select best technologies



Objective - Converting Concepts to Reality

Aspirations – vs - Capabilities

Reliability
Quality control
Demonstrable Experience
Adequate equipment
Service



Certified Manufacturers

TIMBERLAB

ASNZS 1328 - Glue Laminated Structural

Timber

AS 5068 - Structural Finger Joints

NZS 3640 - Timber Treatment

NZS 3631 - Timber Grading Rules

ASANZS 3913 - Quality Systems



Manufacturer's License Certificates

Regular inspections by JASNAZ accredited

AsureQuality

FSC - Certified Chain of Custody



Quality control

Assurance – verifying properties



Demonstrable Experience Pressing any length



Pressing any length



Pressing any shape



Pressing any size



Machine Planning



CNC Profiling



Prefabrication



Life Cycle **Green Living Building Challenge – Tuhoe Headquarters**



Converting Concepts to Reality

- 1. Glulam Project Solutions
- 2. Fabricated LVL
- 3. CNC Processing









HOW IT ALL WORKS

Close co-operation from.....

Concept

Design

Manufacture

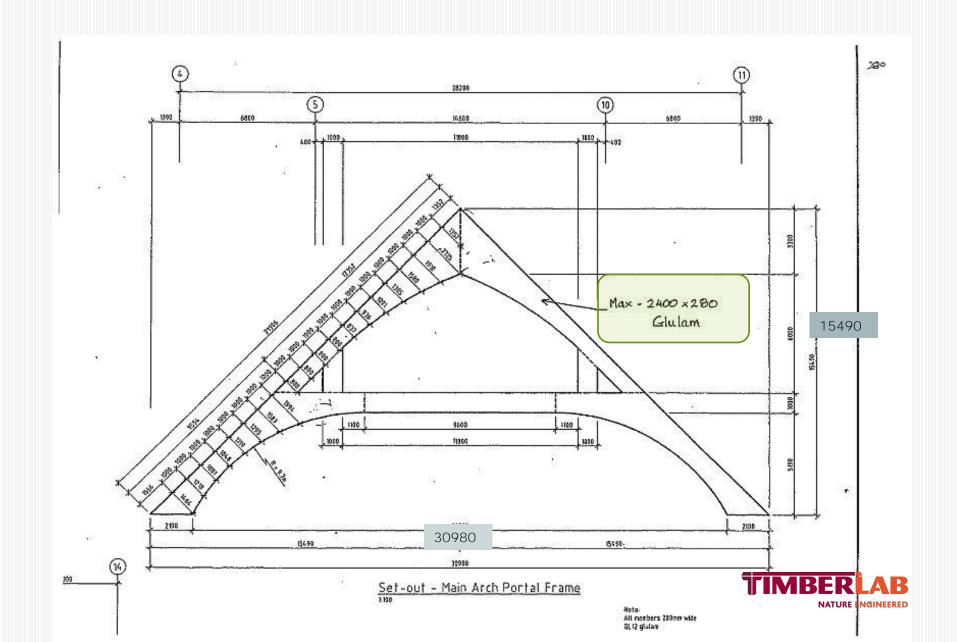
Installation



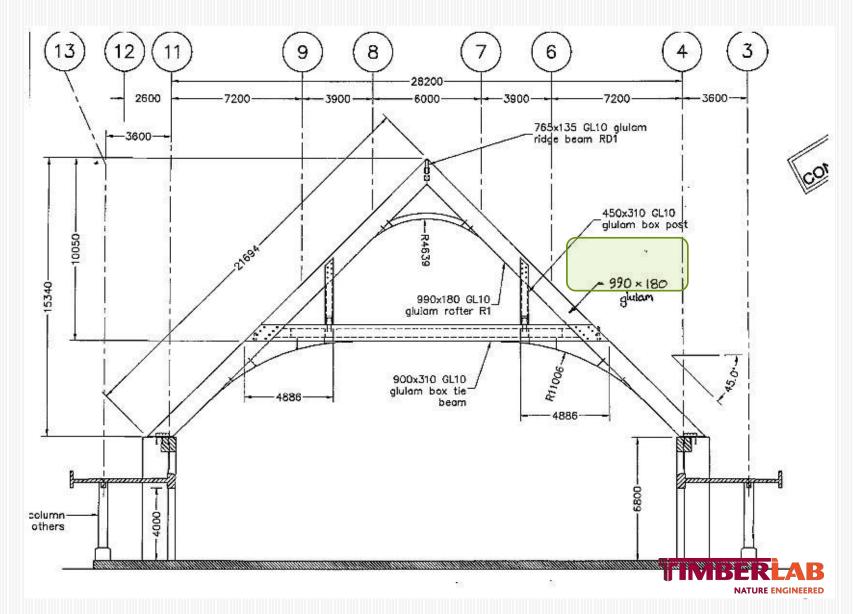
Value Engineering Cost Savings



Value Engineering Cost Savings



Value Engineering Cost Savings Saved \$500,000.00



Value Engineering Cost Savings

Replacement of heavy connection plates and large bolts – with 8mm plates and Glulam Rivets proved significant cost saving.



Carterton Events Centre Architects/Engineers – Opus





Converting Concepts to Reality

1. Glulam Project Solutions

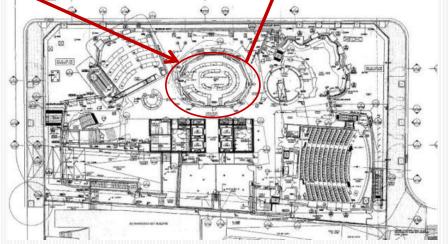




Frank Gehry - Architect University Technology Sydney







Glulam Blocks form 2 storey lecture rooms













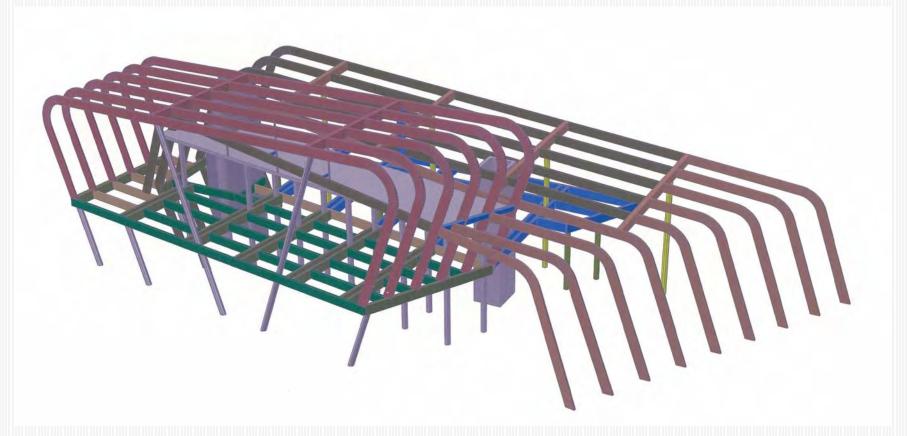


Design Flexibility Overwater Restaurant – Arabian Gulf



Architects - Broadway Malyan Engineers - MLB Consulting





Two Trapezoids intersecting mid height at 10deg. Lower Structure 37m x 14m, Upper Structure 21m x 7.5m Max Height 12m





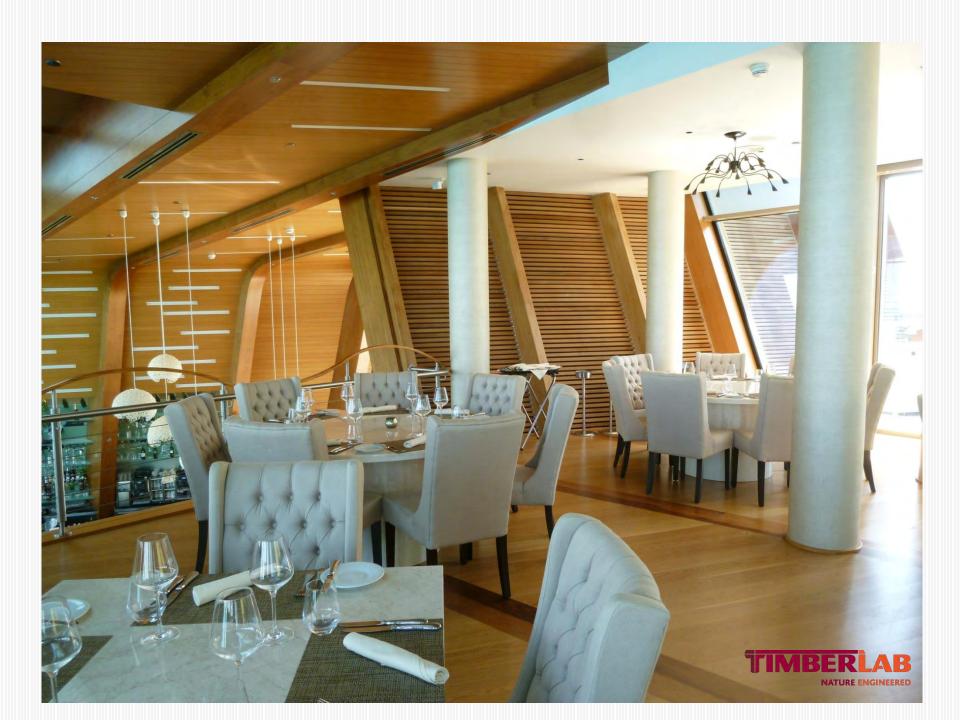


Roof Section Assembled on Ground

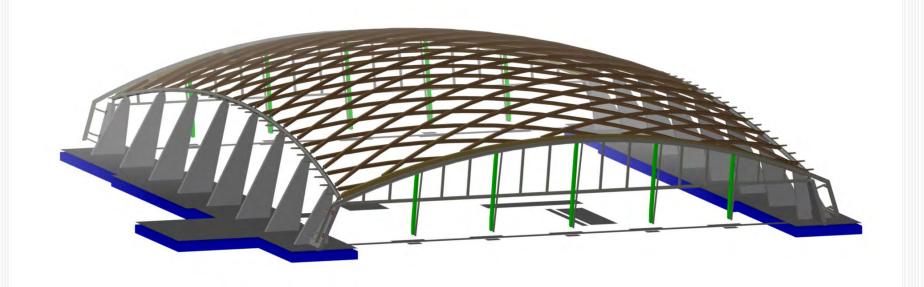








Case Study.. Kapiti Coast Aquatic Centre Glulam Gridshell



Architects – ASC Architects

Engineers - LHT









Pedestrian Bridge Bahrain – 61m span Architects Concept









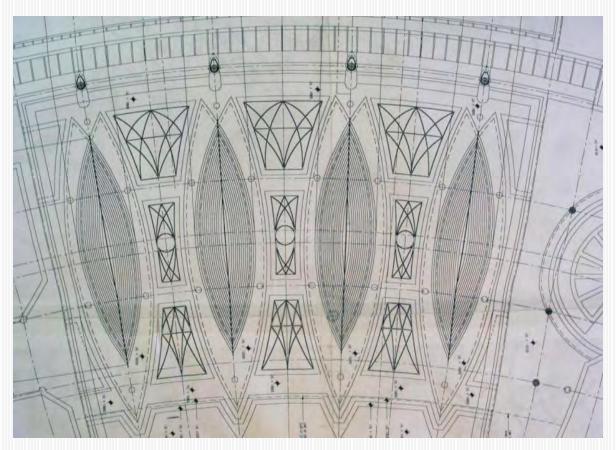


Pre Assembled Bridge – Installed over 5 nights – Minimal disturbance to traffic



Grand Hyatt Hotel Atrium – Dubai

Reflected Ceiling Plan – shows 4 suspended Dhow hulls











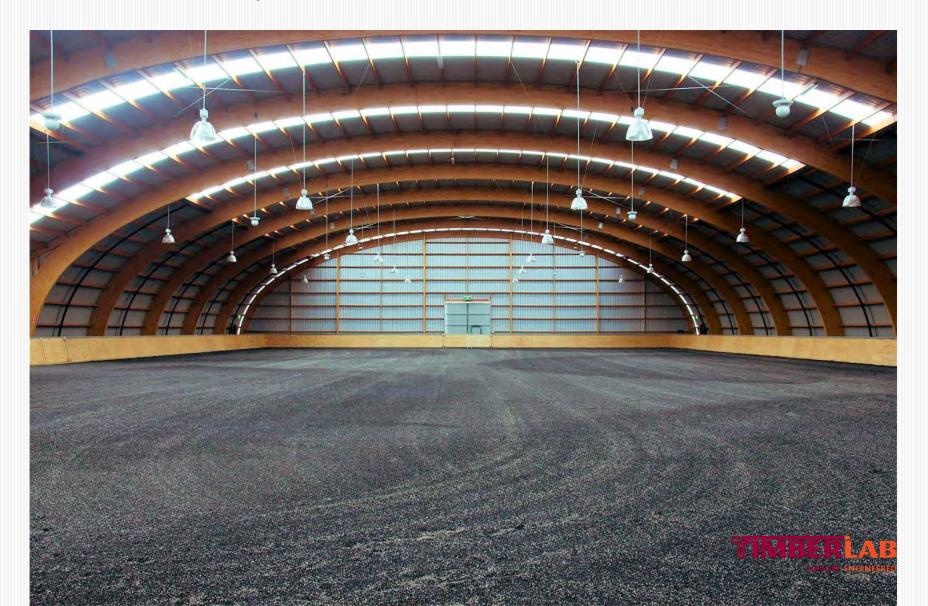








Ballarat University – Riding Arena 43m span – More cost effective than steel



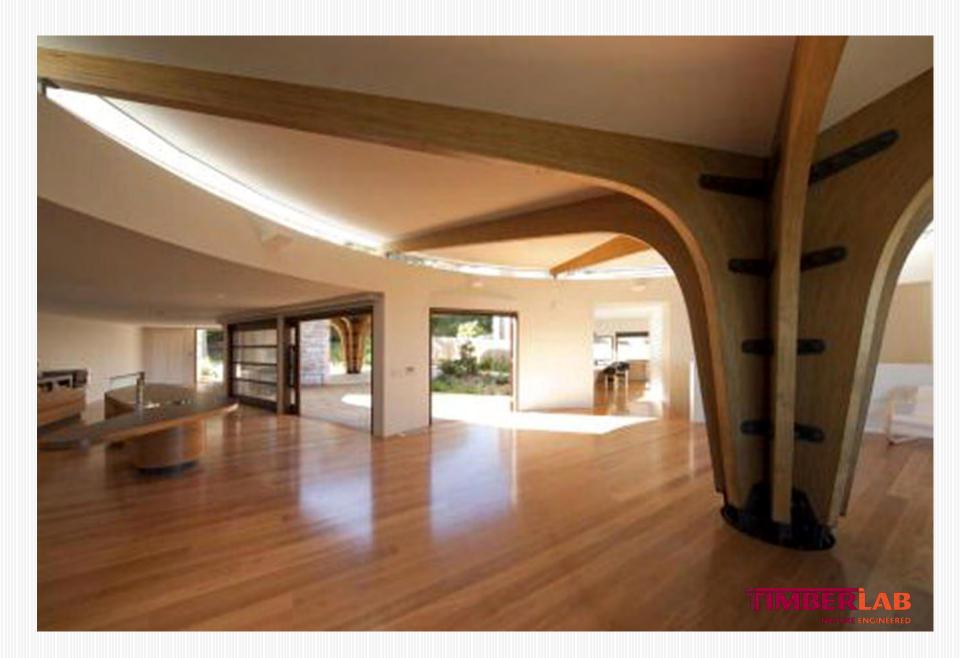
Composite Glulam / Concrete Solution – 43m Span

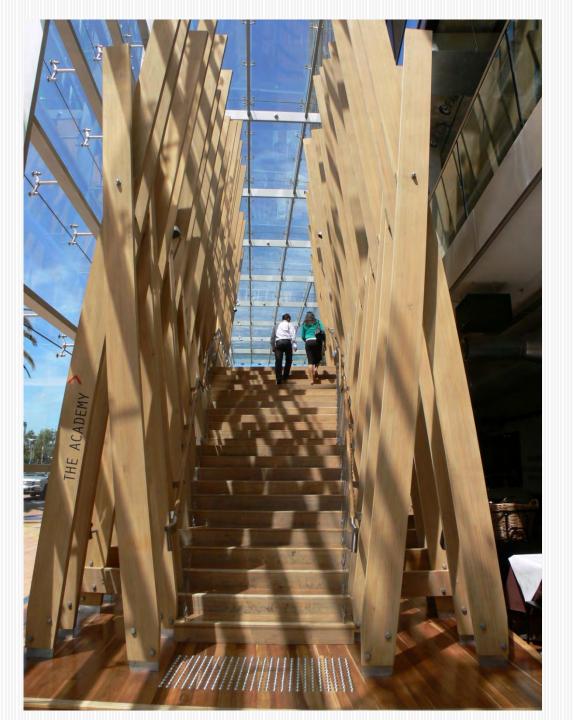


Sydney House - Hrdina Architects - Berlina Projects



Hrdina House Interior

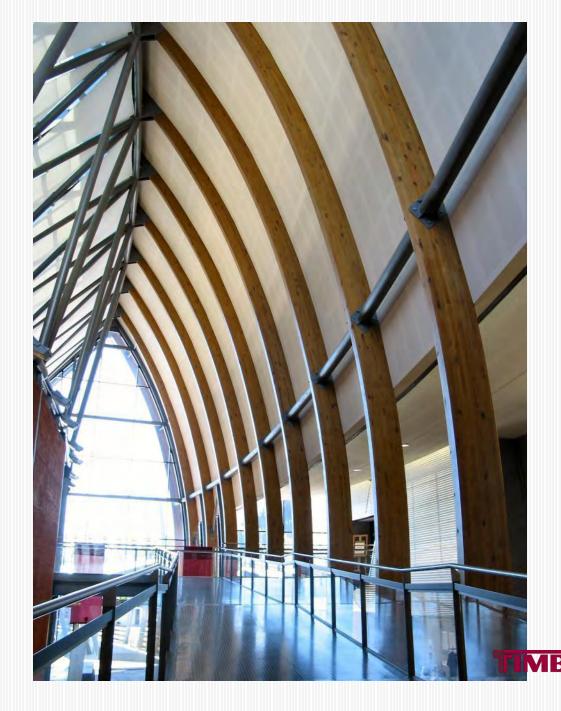




NAB Melbourne



National Wine Centre Adelaide



NATURE ENGINEERED

Glulam Entrance Canopies City Centre Fujairah



Dusseldorf House Tahiti – Lend Lease first foray into Engineered Timber – 1970??



Engineered Wood Solutions

Converting Concepts to Reality

2. LVL Fabrication



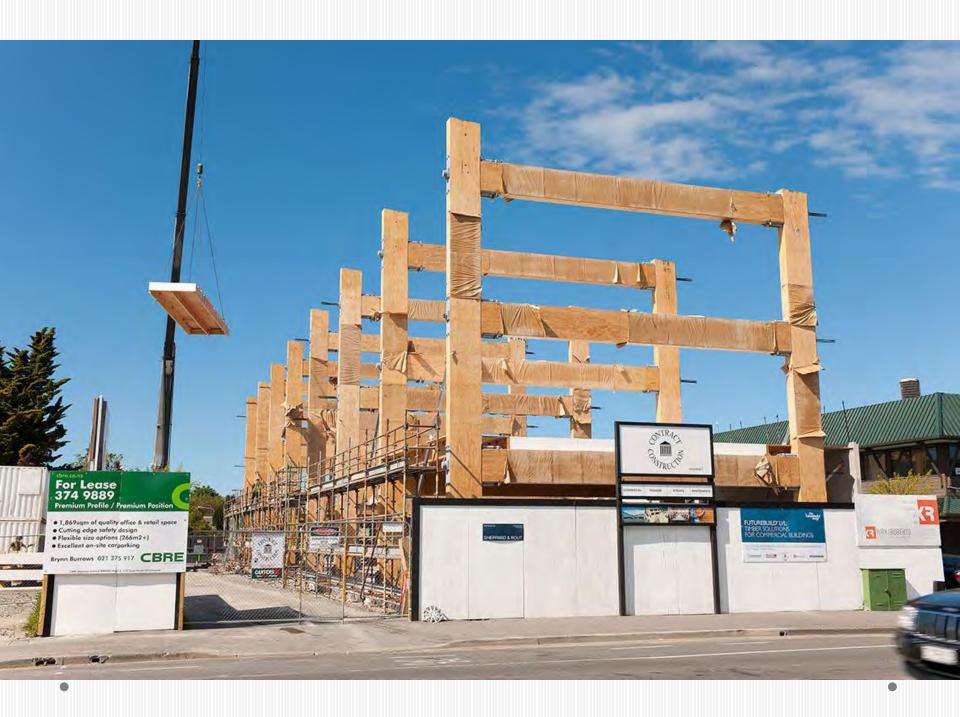


Merrit Building – LVL Fabrication, 3 Storey – Post Tensioned Architects – Shepherd & Route Engineers – Kirk Roberts















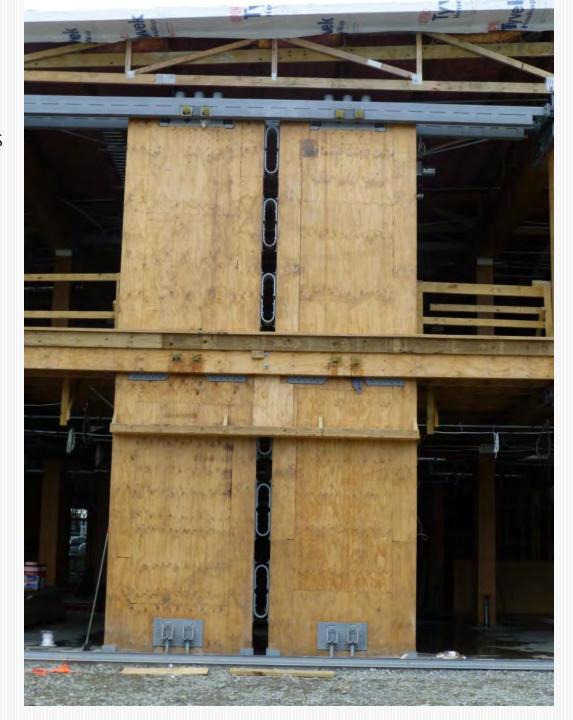
Trimble Building –

LVL Factory Fabrication





Shear Walls











Major Step Forward!

A First for Australasia



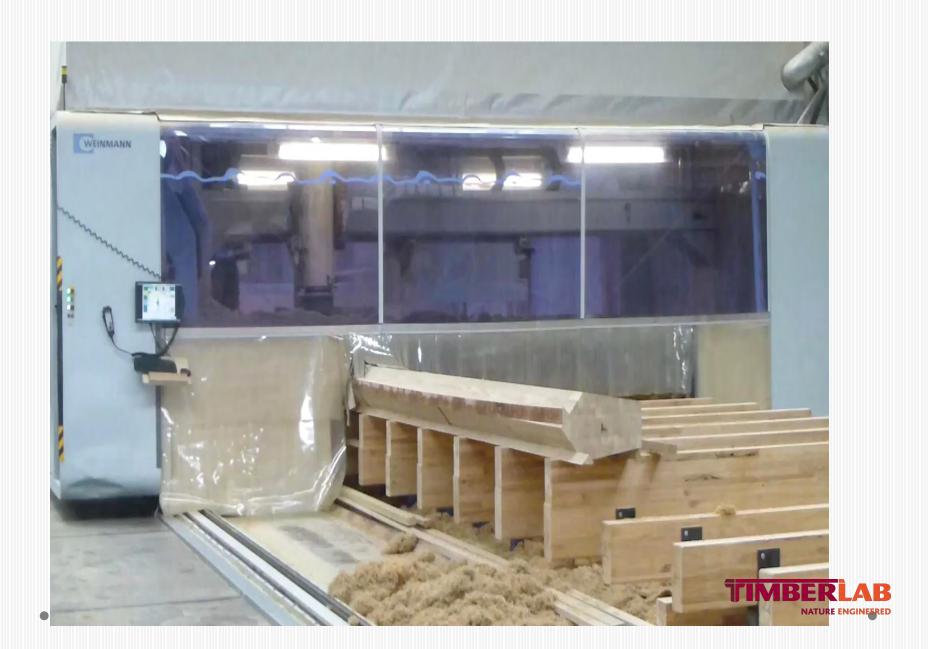
Large Scale CNC Processing

CNC CAPABILITY - 5 AXIS GANTRY - Weinmann WMP240

Processing 30m long x 4m wide



INNOVATION



INNOVATION













Case Study

Royal Maternity Hospital - Bahrain

View in 3D with Deep View Free at www.rig hthemisphere.com/dv

3D Modelling - Complex Cross-over Arches - Changing Radii.



Completed Components cut to Detail



NATURE ENGINEERED

CNC Profiling to Precise Detail.



NATURE ENGINEERED

CNC Profiling to Precise Detail.



Completed Components cut to Detail



Factory Prefabrication

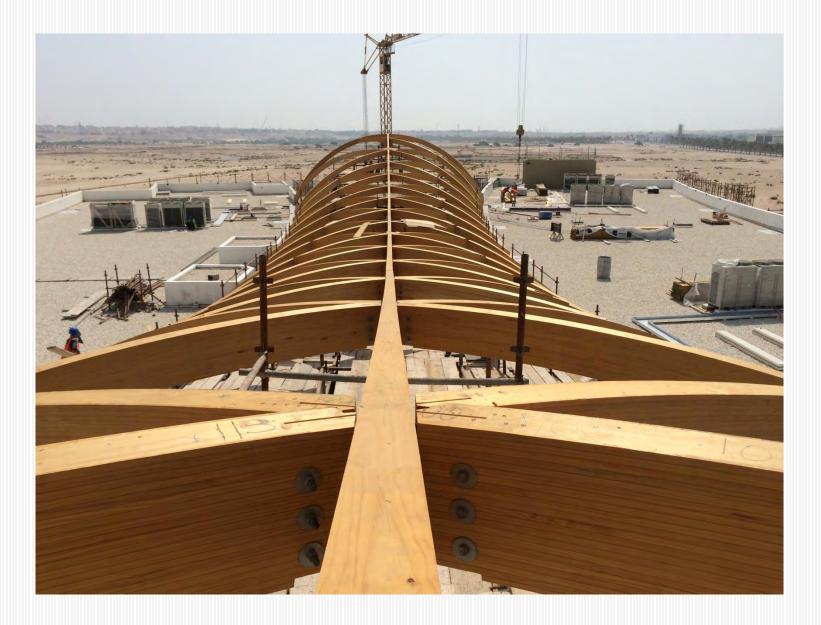
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Royal Maternity Hospital – Bahrain – Site Progress July 2014























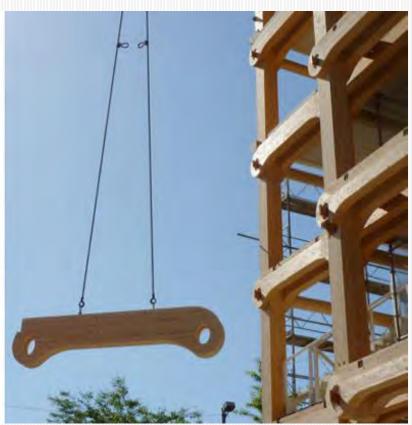






Possibilities





European Project, manufacturer unknown

Possibilities



European Project, manufacturer unknown

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