Prefabrication internationally

Shanks and Zankl

Centre for Sustainable Architecture with Wood, School of Architecture and Design, University of Tasmania

Superstructure - traditional
Superstructure - traditional

![Image of traditional superstructure]

Superstructure - traditional

![Image of traditional superstructure]

![Image of traditional superstructure]
Superstructure - traditional

Superstructure - civic

WISE at CAT
Pat Borer & David Lea Architects
Buro Happold Engineers
Superstructure - civic
Superstructure - civic

Superstructure - civic
Superstructure - civic

Scunthorpe Sports Academy
Andrew Wright Architects
Buro Happold Engineers
Superstructure - civic

Superstructure - civic
Superstructure - envelope

Superstructure – digi fab

AWAWA, HK
www.awawa.pro
Superstructure – digi fab

Building with wood internationally
Building with wood internationally

Bavaria

Tasmania

Building with wood internationally

Drive on Left in Australia
Building with wood internationally

Timber frame

Timber frame constructions since 1980

Vast development in prefabrication due to:
- High quality standards
- High labour costs
- Low material costs
- Climatic conditions
U-value < 0.24 as a standard in W/m²K < 0.15 “Passivhouse”

- Superinsulation
- Airtightness
- High performance windows (triple glazed)
- Mechanical ventilation with heat recovery

goal: “1.5 liter house”
Prefabrication of walls

- Walls
- Floors
- Roofs
- Modules
Prefabrication of walls

- Walls
- Floors
- Roofs
- Modules

Prefabrication of walls

[Images of prefabricated walls and modules]
Prefabrication of walls
Prefabrication of walls

Prefabrication of walls
Prefabrication of walls
Prefabrication of walls

Prefabrication of roofs

- Walls
- Floors
- Roofs
- Modules
Prefabrication of floors

- mechanically laminated
- glue laminated
- composite elements
Prefabrication of floors

glue laminated

Support example
Prefabrication of floors

composite elements
Prefabrication of floors

wood-concrete composite slab

Prefabrication of roofs

- Walls
- Floors
- Roofs
- Modules
Prefabrication of roofs

Wood Solutions

Prefabrication of roofs

Wood Solutions
Prefabrication of roofs

- Walls
- Floors
- Roofs
- Modules
Prefabrication of modules
Prefabrication of modules

Hotel Ammerwald, BMW-Group

Architect: Oskar Leo Kaufmann
Prefabrication of modules
Prefabrication of modules
Prefabrication of modules

Questions?

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More Information

Wood Solutions
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www.woodsolutions.com.au