Wood has great potential as a construction material due to its robustness, light weight, eco-friendly attributes and capabilities of being prefabricated for building applications (Wimmers, 2017). Today Europe is “leading the way in tall timber projects”, found in a study by the Council on Tall Buildings and Urban Habitat (CTBUH, 2017). In this reading list, we look at the timber construction market, analysis of wooden materials, timber prefabrication possibilities, environmental advantages of wood-based buildings, and recent developments in wooden architecture.

The list contains over 40 resources mostly published within the past 5 years and aims to offer insights from various reliable sources, including associations, journals, book titles, and more.

The Library will periodically add new resources to this list. Links to the full-text are indicated. If you encounter any problem in retrieving the materials, please contact library@sutd.edu.sg for assistance. Please also forward us titles that you would like to share with others in this list.

Topics

- Overview
- Market Analysis & Outlook
- Material Assessment
- Prefabrication
- Sustainability
- Wooden Architecture
Overview
Providing a general idea of wood construction, how the system works, use of the material, possibilities and challenges

(2014). New wood construction. Detail, 2014(2), 118-122. Also available @ Main Library General Lending (NA3 DET)


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Market Analysis & Outlook
Featuring the latest global audit of the timber construction market and studies on the potentials of a wood construction industry


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Material Assessment

Reviewing the wooden materials for building applications in terms of physical attributes, environmental impacts and energy behaviors


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Prefabriacation

Discussing the various aspects of timber prefabrication, which saves time, is more flexible and has less impacts on the environment compared to conventional construction


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Sustainability

Offering insights into the sustainable use of wood in green buildings, which could benefit the eco-environment across the globe


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**Wooden Architecture**

Presenting diverse professional views and case studies of timber architecture and design, and the technologies used in this sector


Mayo, J. (2015). Solid wood : Case studies in mass timber architecture, technology and design. London: Routledge. Also available @ Main Library **General Lending** (NA4110 MAY)


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