



Acoustically-Tested Mass Timber Assemblies

<https://research.thinkwood.com/en/permalink/catalogue1874>

Organization: WoodWorks
 Year of Publication: 2019
 Country of Publication: United States
 Format: Report
 Material: CLT (Cross-Laminated Timber)
 NLT (Nail-Laminated Timber)
 Glulam (Glue-Laminated Timber)
 Application: Floors
 Walls
 Topic: Acoustics and Vibration
 Keywords: Mass Timber
 Sound Transmission Class
 Impact Isolation Class
 Assembly
 Language: English
 Online Access: Free

Resource Link

<http://www.woodworks.org/wp-content/uploads/Acoustically-Tested-Mass-Timber-Assemblies-WoodWorks.pdf>



An Exploration into Tornado Resistant Residential CLT Structures

<https://research.thinkwood.com/en/permalink/catalogue2111>

Author: Augustus Raymond
Organization: Clemson University
Year of Publication: 2019
Country of Publication: United States
Publication:
Format: Thesis
Material: CLT (Cross-Laminated Timber)
Glulam (Glue-Laminated Timber)
Application: Wood Building Systems
Topic: Wind
Design and Systems
Mechanical Properties
Keywords: Tornadoes
Analytical Models
Language: English
Online Access: Free

Resource Link

https://tigerprints.clemson.edu/all_theses/3095 [↗](#)



Assessment of Energy Saving Potential by Replacing Conventional Materials by Cross Laminated Timber (CLT)—A Case Study of Office Buildings in China

<https://research.thinkwood.com/en/permalink/catalogue2010>

Author: Yu Dong
Xue Cui
Xunzhi Yin
Yang Chen
Haibo Guo

Publisher: MDPI

Year of Publication: 2019

Country of Publication: Switzerland

Format: Journal Article

Material: CLT (Cross-Laminated Timber)

Application: Wood Building Systems

Topic: Energy Performance

Keywords: China
Energy Consumption
Office Buildings

Language: English

Series: Applied Sciences

ISSN: 2076-3417

Online Access: Free

Resource Link

<https://doi.org/10.3390/app9050858> ↗



Australia and New Zealand Cross Laminated Timber (CLT) Market: Industry Trends, Share, Size, Growth, Opportunity and Forecast 2019-2024

<https://research.thinkwood.com/en/permalink/catalogue1962>

Organization: IMARC Group
Publisher: IMARC Services Pvt. Ltd.
Year of Publication: 2019
Country of Publication: United States
Format: Report
Material: CLT (Cross-Laminated Timber)
Application: Wood Building Systems
General Application
Topic: Market and Adoption
Keywords: Market Performance
Industry Performance
Australia
New Zealand
Manufacturing
Language: English

Abstract:

This report provides a deep insight into the Australia and New Zealand cross laminated timber market covering all its essential aspects. This ranges from macro overview of the market to micro details of the industry performance, recent trends, key market drivers and challenges, SWOT analysis, Porter's five forces analysis, value chain analysis, etc. This report is a must-read for entrepreneurs, investors, researchers, consultants, business strategists, and all those who have any kind of stake or are planning to foray into the cross laminated timber industry in any manner.

Online Access: Payment Required

Resource Link

<https://www.imarcgroup.com/australia-newzealand-clt-market>



Connection and Performance of Two-Way CLT Plates Phase II

<https://research.thinkwood.com/en/permalink/catalogue2086>

Author: Chao Zhang
Julian Asselstine
George Lee
Frank Lam

Organization: University of British Columbia

Year of Publication: 2019

Country of Publication: Canada

Format: Report

Material: CLT (Cross-Laminated Timber)
PSL (Parallel Strand Lumber)
LVL (Laminated Veneer Lumber)

Application: General Application

Topic: Mechanical Properties
Connections

Keywords: Deflection
Two-Way
Bending
Finite Element Method
Model

Language: English

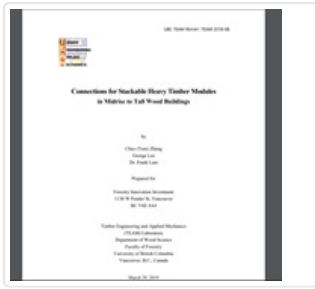
Abstract:

In Phase I of Developing Large Span Two Way CLT Floor System (2017-18) we studied the performance of a steel plate connection system for the minor direction of CLT plates. The connected specimens had higher stiffness and strength compared to intact members under bending. In Phase II (2018-19) we designed and tested another connector based on...

Online Access: Free

Resource Link

<http://team.sites.olt.ubc.ca/files/2019/04/TEAM-Report-2018-07-Phase-II-Connection-and-performance-of-Two-way-CLT-Plate.pdf>



Connections for Stackable Heavy Timber Modules in Midrise to Tall Wood Buildings

<https://research.thinkwood.com/en/permalink/catalogue2087>

Author: Chao Zhang
George Lee
Frank Lam

Organization: University of British Columbia

Year of Publication: 2019

Country of Publication: Canada

Format: Report

Material: LVL (Laminated Veneer Lumber)
CLT (Cross-Laminated Timber)

Application: Wood Building Systems

Topic: Connections
Design and Systems
Seismic

Keywords: Modular
Intra-module Connection
Inter-module Vertical Connection
Inter-module horizontal Connection
Mid-Rise
Tall Wood
Screws
Load Transfer
Steel Angle Bracket
Stiffness
Strength
Ductility

Language: English

Abstract:

In Phase I (2018-19) of this project on Prefabricated Heavy Timber Modular Construction, three major types of connections used in a stackable modular building were studied: intramodule connection, inter-module vertical connection, and inter-module horizontal connection. The load requirement and major design criteria were identified...

Online Access: Free

Resource Link

<http://team.sites.olt.ubc.ca/files/2019/04/TEAM-Report-2018-08-Connections-for-Stackable-Heavy-Timber-Modules.pdf>



Costs and Procurement for Cross-Laminated Timber in Mid-Rise Buildings

<https://research.thinkwood.com/en/permalink/catalogue2112>

Author: Anne Gunnarshaug Lien
Nicola Lolli

Publisher: Kaunas University of Technology

Year of Publication: 2019

Country of Publication: Lithuania

Format: Journal Article

Material: CLT (Cross-Laminated Timber)

Application: Wood Building Systems

Topic: Cost
Environmental Impact

Keywords: Mid-Rise
Greenhouse Gases
Student Residence

Language: English

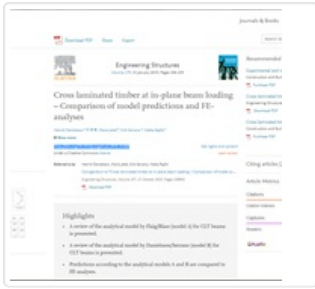
Series: Journal of Sustainable Architecture and Civil Engineering

ISSN: 2335–2000

Online Access: Free

Resource Link

<https://doi.org/10.5755/j01.sace.25.2.22099> ↗



Cross Laminated Timber at In-Plane Beam Loading - Comparison of Model Predictions and FE-Analyses

<https://research.thinkwood.com/en/permalink/catalogue2122>

Author: Henrik Danielsson
Mario Jelec
Erik Serrano
Vlatka Rajcic

Publisher: Elsevier

Year of Publication: 2019

Country of Publication: United States

Format: Journal Article

Material: CLT (Cross-Laminated Timber)

Application: Beams

Topic: Mechanical Properties

Keywords: In-Plane Loading
FE Analysis
Shear Mode III

Language: English

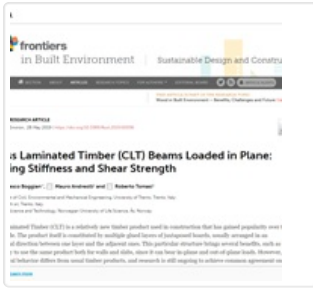
Research Status: Complete

Series: Engineering Structures

Online Access: Free

Resource Link

<https://doi.org/10.1016/j.engstruct.2018.10.068>



Cross Laminated Timber (CLT) Beams Loaded in Plane: Testing Stiffness and Shear Strength

<https://research.thinkwood.com/en/permalink/catalogue2136>

Author: Francesco Boggian
Mauro Andreolli
Roberto Tomasi

Year of Publication: 2019

Country of Publication: Switzerland

Format: Journal Article

Material: CLT (Cross-Laminated Timber)

Application: Beams

Topic: Mechanical Properties
Design and Systems

Keywords: In-Plane Loading
In-Plane Behaviour
Shear Stresses
Four Point Bending Test
Shear Failure
Modulus of Elasticity

Language: English

Research Status: Complete

Series: Frontiers in Built Environment

Online Access: Free

Resource Link

<https://doi.org/10.3389/fbuil.2019.00058>



Cross-Laminated Timber (CLT) in China: A State-of-the-Art

<https://research.thinkwood.com/en/permalink/catalogue2108>

Author: Hao Li
Brad Wang
Peixing Wei
Libin Wang

Publisher: Nanjing Forestry University
University of New Brunswick
Cellulose and Renewable Materials Division of Chinese Chemical Society

Year of Publication: 2019

Country of Publication: Canada

Format: Journal Article

Material: CLT (Cross-Laminated Timber)

Application: Wood Building Systems

Topic: Market and Adoption

Keywords: China

Language: English

Series: Journal of Bioresources and Bioproducts

ISSN: 2369-9698

Online Access: Free

Resource Link

<http://dx.doi.org/10.21967/jbb.v4i1.190> 