

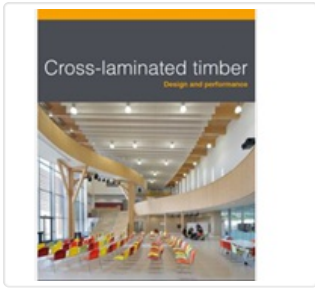
The Case for Tall Wood Buildings

<https://research.thinkwood.com/en/permalink/catalogue835>

Organization: Michael Green Architecture
Edition: Second
Year of Publication: 2017
Country of Publication: Canada
Publication:
Format: Book
Application: Wood Building Systems
Topic: General Information
Cost
Environmental Impact
Design and Systems
Keywords: FTTT
Tall Wood
Language: English
Research Status: Complete
Online Access: Free

Resource Link

<http://thecasefortallwood.com/wp-content/uploads/2017/02/2017-01-24-THE-CASE-FOR-TALL-WOOD-SECOND-EDITION.pdf>



Cross-laminated Timber: Design and Performance

<https://research.thinkwood.com/en/permalink/catalogue2271>

Editor: Exova BM TRADA
Publisher: TRADA
Year of Publication: 2017
Country of Publication: United Kingdom
Format: Book
Material: CLT (Cross-Laminated Timber)
Application: Wood Building Systems
Topic: Design and Systems
Fire
Acoustics and Vibration
Energy Performance
Environmental Impact
Mechanical Properties
Language: English
Research Status: Complete
ISBN: 978-1909594630

Summary:

This book has been written to cover the design and performance of CLT within construction. Chapter 1 showcases its uses for architects and building designers. Chapter 2 focuses on design principles and Chapter 3 covers CLT performance, including structural design, fire performance, acoustics, thermal performance, durability, appearance, and sustainability. Chapter 4 concludes the book with thirteen case studies based on several building types. Highly illustrated with photos and technical drawings, this book demonstrates the versatility of CLT as a sustainable, engineered timber solution and will assist architects, engineers and their clients looking to work with this material.

Online Access: Payment Required

Resource Link

<https://www.trada.co.uk/books-online/cross-laminated-timber-design-and-performance/>



Innovation in Hybrid Mass Timber High-Rise Construction: A Case Study of UBC's Brock Commons Project

<https://research.thinkwood.com/en/permalink/catalogue1273>

Author: Fallahi, Azadeh
Organization: University of British Columbia
Year of Publication: 2017
Country of Publication: Canada
Format: Thesis
Material: CLT (Cross-Laminated Timber)
Glulam (Glue-Laminated Timber)
PSL (Parallel Strand Lumber)
Application: Hybrid Building Systems
Topic: General Information
Keywords: High-Rise
Construction
Design
Prefabrication
Project Coordination
Virtual Design and Construction
Language: English
Research Status: Complete
Online Access: Free

Resource Link

<http://doi.org/10.14288/1.0345634>



Investigating the Performance of the Construction Process of an 18-storey Mass Timber Hybrid Building

<https://research.thinkwood.com/en/permalink/catalogue1269>

Author: Kasbar, Mohamed
Organization: University of British Columbia
Year of Publication: 2017
Country of Publication: Canada
Format: Thesis
Material: CLT (Cross-Laminated Timber)
Application: Hybrid Building Systems
Wood Building Systems
Topic: General Information
Market and Adoption
Keywords: Brock Commons
Construction
Efficiency of Construction
Language: English
Research Status: Complete
Online Access: Free

Resource Link

<http://doi.org/10.14288/1.0347252>



Modeling of Orthotropic Plates out of Cross Laminated Timber in the Mid and High Frequency Range

<https://research.thinkwood.com/en/permalink/catalogue1352>

Author: Winter, Christoph
Buchschmid, Martin
Müller, Gerhard

Publisher: ScienceDirect

Year of Publication: 2017

Country of Publication: Netherlands

Format: Journal Article

Material: CLT (Cross-Laminated Timber)

Application: General Application

Topic: General Information

Keywords: Finite Element Model
Statistical Energy Analysis
Frequency
Orthotropic Plates

Language: English

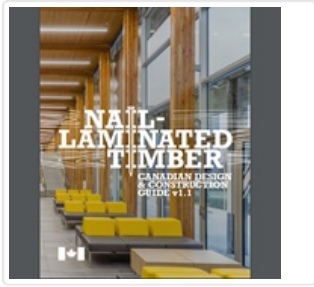
Research Status: Complete

Series: Procedia Engineering

Online Access: Free

Resource Link

<https://doi.org/10.1016/j.proeng.2017.09.373>



Nail-Laminated Timber Canadian Design & Construction Guide

<https://research.thinkwood.com/en/permalink/catalogue2243>

Editor: Holt, Rebecca
Luthi, Tanya
Dickof, Carla

Edition: 1.1

Publisher: Binational Softwood Lumber Council
Forestry Innovation Investment

Year of Publication: 2017

Country of Publication: Canada

Format: Report

Material: NLT (Nail-Laminated Timber)

Application: Floors
Roofs

Topic: Design and Systems
Acoustics and Vibration
Connections
Fire
General Information
Moisture
Seismic
Site Construction Management

Language: English

Research Status: Complete

Summary:

This Design and Construction Guide (the Guide) provides the Canadian design and construction industry with immediate support and guidance to ensure safe, predictable, and economical use of NLT. It is intended to offer practical strategies, advice, and guidance, transferring knowledge and lessons learned from those with experience.

This Guide focuses on design and construction considerations for floor and roof systems pertaining to current Canadian construction practice and standards. While NLT is being used for vertical elements for walls, stair shafts, and elevator shafts, this Guide provides the greatest depth of direction for common horizontal applications. The information included here is supplemental to wood design and construction best practices and is specific to the application of NLT. Built examples are included to illustrate real application and visual reference as much as possible.

Online Access: Free

Resource Link

<https://www.naturallywood.com/NLT> 



Parametric and Generative Design Techniques for Mass-Customization in Building Industry: A Case Study for Glued-Laminated Timber

<https://research.thinkwood.com/en/permalink/catalogue1351>

Author: Monizza, Gabriele
Rauch, Erwin
Matt, Dominik

Publisher: ScienceDirect

Year of Publication: 2017

Country of Publication: Netherlands

Format: Journal Article

Material: Glulam (Glue-Laminated Timber)

Application: General Application

Topic: General Information
Design and Systems

Keywords: Research
Building Industry
Mass-Customization
Production
Parametric Design
Generative Design

Language: English

Research Status: Complete

Series: Procedia CIRP

Online Access: Free

Resource Link

<https://doi.org/10.1016/j.procir.2017.01.051>