

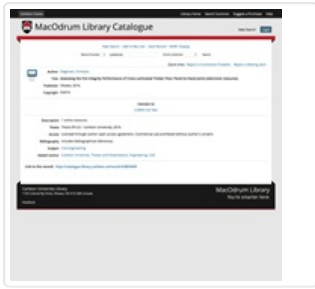
Adhesive Bonding of Structural Hardwood Elements

<https://research.thinkwood.com/en/permalink/catalogue75>

Author: Hassani, Mohammad
Organization: ETH Zurich
Year of Publication: 2015
Country of Publication: Switzerland
Format: Thesis
Material: Glulam (Glue-Laminated Timber)
CLT (Cross-Laminated Timber)
Application: General Application
Topic: Mechanical Properties
Serviceability
Moisture
Keywords: Abaqus
Adhesives
Beech
Bonding
Delamination
Finite Element Model
Fracture
Long-term
Model
Hardwood
Language: English
Research Status: Complete
Online Access: Free

Resource Link

<http://dx.doi.org/10.3929/ethz-a-010528229>



Assessing the Fire Integrity Performance of Cross-Laminated Timber Floor Panel-To-Panel Joints

<https://research.thinkwood.com/en/permalink/catalogue185>

Author: Dagenais, Christian
Organization: Carleton University
Year of Publication: 2016
Country of Publication: Canada
Format: Thesis
Material: CLT (Cross-Laminated Timber)
Application: Floors
Topic: Connections
Fire
Keywords: Finite Element Model
Thickness
Codes
Panel-to-Panel
Joints
Canada
US
Fire Resistance
Language: English
Research Status: Complete

Abstract:

During the past few years, a relatively new technology has emerged in North America and changed the way professionals design and build wood structures: Cross-laminated Timber (CLT). CLT panels are manufactured in width ranging from 600 mm to 3 m. As such...

Online Access: Free

Resource Link

<http://catalogue.library.carleton.ca/record=b3859439>



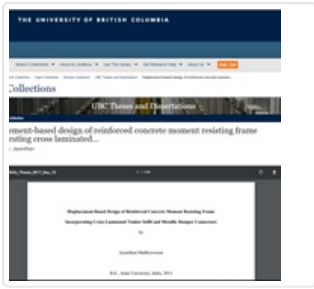
Design and Behavior of a Mid-Rise Cross-Laminated Timber Building

<https://research.thinkwood.com/en/permalink/catalogue242>

Author: Lenon, Conor
Organization: Colorado School of Mines
Year of Publication: 2012
Country of Publication: United States
Publication:
Format: Thesis
Material: CLT (Cross-Laminated Timber)
Application: Wood Building Systems
Topic: Seismic
Keywords: Finite Element Model
Shake Table Test
Full Scale
Moment Resistance
Language: English
Research Status: Complete
Online Access: Free

Resource Link

<http://hdl.handle.net/11124/169999> ↗



Displacement-Based Design of Reinforced Concrete Moment Resisting Frame Incorporating Cross Laminated Timber Infill and Metallic Damper Connector

<https://research.thinkwood.com/en/permalink/catalogue1266>

Author: Madheswaran, Jayanthan
Organization: University of British Columbia
Year of Publication: 2018
Country of Publication: Canada
Format: Thesis
Material: CLT (Cross-Laminated Timber)
Application: Hybrid Building Systems
Topic: Seismic
Connections
Keywords: Displacement-Based Design
Reinforced Concrete
Metallic Damper Connections
Abaqus
Finite Element Model
Language: English
Research Status: Complete
Online Access: Free

Resource Link

<http://doi.org/10.14288/1.0363915>




Dynamic Analysis of the FFTT System

<https://research.thinkwood.com/en/permalink/catalogue138>

Author: Fairhurst, Michael
Organization: University of British Columbia
Year of Publication: 2014
Country of Publication: Canada
Publication:
Format: Thesis
Material: CLT (Cross-Laminated Timber)
Glulam (Glue-Laminated Timber)
LSL (Laminated Strand Lumber)
LVL (Laminated Veneer Lumber)
Application: Wood Building Systems
Topic: Design and Systems
Seismic
Keywords: FFTT
Finite Element Model
High-Rise
Lateral Loads
Mid-Rise
Multi-Storey
National Building Code of Canada
Timber-Steel Hybrid
Tall Wood
Language: English
Research Status: Complete
Online Access: Free

Resource Link

<https://doi.org/10.14288/1.0166936> 



Effective Out-of-Plane Stiffness and Strength of Rotated Cross Laminated Timber Panels

<https://research.thinkwood.com/en/permalink/catalogue1622>

Author: Cheng, Alexandra
Schneider, Johannes
Tannert, Thomas

Year of Publication: 2016

Country of Publication: Austria

Format: Conference Paper

Material: CLT (Cross-Laminated Timber)

Application: General Application

Topic: Mechanical Properties

Keywords: Strength
Stiffness
Analytical Model
Finite Element Model

Language: English

Conference: World Conference on Timber Engineering

Research Status: Complete

Notes: August 22-25, 2016, Vienna, Austria
p. 2557-2564

Abstract:

This research considers the effect of in-plane rotation angles on the structural performance of Cross Laminated Timber (CLT) panels. In the interest of expanding the application of CLT to folded or freeform structures, rectangular CLT panels are likely to be divided into irregular geometries, in which case the loading will be applied at an...

Online Access: Free

Resource Link

<http://repositum.tuwien.ac.at/obvutwoa/content/pageview/1648912> 



Effect of End Support Conditions on the Vibrational Performance of Cross-Laminated Timber Floors

<https://research.thinkwood.com/en/permalink/catalogue209>

Author: Maldonado, Saul
Chui, Ying Hei

Year of Publication: 2014

Country of Publication: Canada

Format: Conference Paper

Material: CLT (Cross-Laminated Timber)

Application: Floors

Topic: Acoustics and Vibration

Keywords: End Support
Natural Frequency
Damping
Static Deflection
Finite Element Model

Language: English

Conference: World Conference on Timber Engineering

Research Status: Complete

Notes: August 10-14, 2014, Quebec City, Canada

Abstract:

This study focused on the vibrational behaviour of a 3-ply cross-laminated timber (CLT) plate supported on two sides with different support conditions. Three end support setups were studied; 1) top load over the two supported edges, 2) direct fastening t...

Online Access: Free

Resource Link

http://newbuildscanada.ca/wp-content/uploads/2010/11/wcte-2014_PAP571_Hernandez.pdf



Evaluation of Effective Flange Width in the CLT Composite T-Beams

<https://research.thinkwood.com/en/permalink/catalogue1715>

Author: Masoudnia, Reza
Hashemi, Ashkan
Quenneville, Pierre

Year of Publication: 2016

Country of Publication: Austria

Format: Conference Paper

Material: CLT (Cross-Laminated Timber)
Glulam (Glue-Laminated Timber)

Application: Beams

Topic: Mechanical Properties

Keywords: T-Beams
Finite Element Model
Effective Flange Width
Shear Lag

Language: English

Conference: World Conference on Timber Engineering

Research Status: Complete

Notes: August 22-25, 2016, Vienna, Austria
p. 4539-4546

Abstract:

This paper deals with the behaviour of CLT composite T-beams composed of a Cross Laminated Timber (CLT) acting as panel attached to a Glulam (GL) girder. The paper investigates the effect of the configuration of the CLT panel and GL beam on the effective flange width of the CLT composite T-beams. When the CLT composite T-beams are...

Online Access: Free

Resource Link

<http://repositum.tuwien.ac.at/obvutwoa/content/pageview/1649862> 



Experimental and Numerical Evaluation of Cross-Laminated Timber (CLT) Panels Produced with Pine Timber from Thinnings in Uruguay

<https://research.thinkwood.com/en/permalink/catalogue1601>

Author: Baño, Vanesa
Godoy, Daniel
Vega, Abel

Year of Publication: 2016

Country of Publication: Austria

Format: Conference Paper

Material: CLT (Cross-Laminated Timber)

Application: Floors

Topic: Market and Adoption
Mechanical Properties

Keywords: Uruguay
Pine
Finite Element Model
Strength

Language: English

Conference: World Conference on Timber Engineering

Research Status: Complete

Notes: August 22-25, 2016, Vienna, Austria
p. 1948-1955

Abstract:

Due to the high volume of timber required for manufacturing, the production of cross-laminated timber (CLT) panels could be an appropriate destiny for the existing surplus of pinewood presently available in Uruguay. Although wood construction is uncommon in this country, there are some companies with the capacity to adapt their production to new...

Online Access: Free

Resource Link

<http://repositum.tuwien.ac.at/obvutwoa/content/pageview/1607762>



Experimental-Numerical Analyses of the Seismic Behaviour of Cross-Laminated Wall Systems

<https://research.thinkwood.com/en/permalink/catalogue56>

Author: Gavric, Igor
Rinaldin, Giovanni
Amadio, Claudio
Fragiacomo, Massimo
Ceccotti, Ario

Year of Publication: 2012

Country of Publication: Portugal

Format: Conference Paper

Material: CLT (Cross-Laminated Timber)

Application: Walls

Topic: Seismic
Energy Performance

Keywords: Finite Element Model
Abaqus
Experimental
Numerical
Full Scale
Cyclic Testing

Language: English

Conference: World Conference on Earthquake Engineering

Research Status: Complete

Notes: September 24-28, 2012, Lisbon, Portugal

Online Access: Free

Resource Link

http://www.iitk.ac.in/nicee/wcee/article/WCEE2012_2749.pdf