

Fire Behavior of Cross-Laminated Timber (CLT) Slabs: Two-Way Action

<https://research.thinkwood.com/en/permalink/catalogue1413>

Author: Doyle, Nicholas
Emberley, Richard
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Country of Publication: Singapore

Format: Book Section

Material: CLT (Cross-Laminated Timber)

Application: General Application

Topic: Fire

Keywords: Analytical Model
Bending Tests
Small Scale
Strain
Stiffness
Failure Modes
Load Carrying Capacity
Two-Way
Elastic Stiffness

Language: English

Research Status: Complete

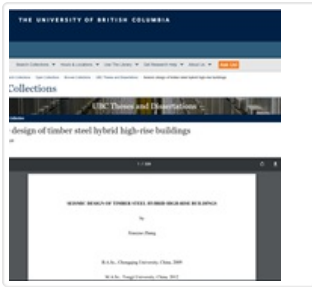
Series: Fire Science and Technology 2015

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Resource Link

https://doi.org/10.1007/978-981-10-0376-9_28



Seismic Design of Timber Steel Hybrid High-Rise Buildings

<https://research.thinkwood.com/en/permalink/catalogue1270>

Author: Zhang, Xiaoyue
Organization: University of British Columbia
Year of Publication: 2017
Country of Publication: Canada
Publication:
Format: Thesis
Application: Hybrid Building Systems
Topic: Seismic
Connections
Keywords: Timber-Steel Hybrid
FFTT
Seismic Performance
Strength
Stiffness
Ductility
Failure Mechanisms
Force Reduction Factors
High-Rise
Language: English
Research Status: Complete
Online Access: Free

Resource Link

<http://doi.org/10.14288/1.0348302>



Seismic Performance of Embedded Steel Beam Connection in Cross-Laminated Timber Panels for Tall-Wood Hybrid System

<https://research.thinkwood.com/en/permalink/catalogue415>

Author: Zhang, Xiaoyue
Azim, Riasat
Bhat, Pooja
Popovski, Marjan
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Publisher: Canadian Science Publishing

Year of Publication: 2017

Country of Publication: Canada

Format: Journal Article

Material: CLT (Cross-Laminated Timber)

Application: Hybrid Building Systems

Topic: Seismic

Keywords: Timber-Steel Hybrid
Energy Dissipation
FFTT
Quasi-Static
Monotonic Test
Reverse Cyclic Test
Failure mechanism
Beam Profiles
Embedment

Language: English

Research Status: Complete

Series: Canadian Journal of Civil Engineering

Summary:

Recent developments in novel engineered mass timber products and connection systems have created the possibility to design and construct tall timber-based buildings. This research presents the experiments conducted on the steel-wood connection as main energy dissipating part of a novel steel-timber hybrid system labelled Finding the Forest Through the Trees (FFTT)...

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Resource Link

<https://tspace.library.utoronto.ca/bitstream/1807/77971/1/cjce-2016-0386.pdf>