



Analysis of Shear Transfer and Gap Opening in Timber–Concrete Composite Members with Notched Connections

<https://research.thinkwood.com/en/permalink/catalogue1399>

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Publisher: Springer Netherlands

Year of Publication: 2017

Country of Publication: Netherlands

Format: Journal Article

Material: Timber-Concrete Composite

Application: General Application

Topic: Connections
Mechanical Properties

Keywords: Notched Connections
Analytical Model
Shear Stress
Failure

Language: English

Series: Materials and Structures

ISSN: 1871-6873

Online Access: Payment Required

Resource Link

<https://doi.org/10.1617/s11527-017-1098-3>



An Empirical Model for Predicting the Mechanical Properties Degradation of Bamboo Bundle Laminated Veneer Lumber (BLVL) by Hygrothermal Aging Treatment

<https://research.thinkwood.com/en/permalink/catalogue1405>

Author: Haidong Li
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Publisher: Springer Berlin Heidelberg

Year of Publication: 2017

Country of Publication: Germany

Format: Journal Article

Material: Other Materials

Application: General Application

Topic: Serviceability
Mechanical Properties

Keywords: Degradation
Computed Tomography
MOE
MOR
Temperature
Failure
Bamboo

Language: English

Series: European Journal of Wood and Wood Products

ISSN: 1436-736X

Online Access: Payment Required

Resource Link

<https://doi.org/10.1007/s00107-016-1100-8>



Bending Tests on Timber-Concrete Composite Members Made of Beech Laminated Veneer Lumber with Notched Connection

<https://research.thinkwood.com/en/permalink/catalogue1349>

Author: Lorenzo Boccadoro
Simon Zweidler
René Steiger
Andrea Frangi

Publisher: ScienceDirect

Year of Publication: 2017

Country of Publication: Netherlands

Format: Journal Article

Material: Timber-Concrete Composite
LVL (Laminated Veneer Lumber)

Application: General Application

Topic: Mechanical Properties

Keywords: Notched Connections
Analytical Model
Vertical Load
Ductility
Compressive Failure
Bending Test

Language: English

Series: Engineering Structures

Online Access: Payment Required

Resource Link

<https://doi.org/10.1016/j.engstruct.2016.11.029>



Components and Consequences of Cross-Laminated Timber Delamination

<https://research.thinkwood.com/en/permalink/catalogue1412>

Author: Richard Emberley
Arne Inghelbrecht
Nicholas Doyle
José Torero

Publisher: Springer, Singapore

Year of Publication: 2017

Country of Publication: Singapore

Format: Book Section

Material: CLT (Cross-Laminated Timber)

Application: General Application

Topic: Fire

Keywords: Delamination
Failure Modes
Charring
Thermal Penetration Depths

Language: English

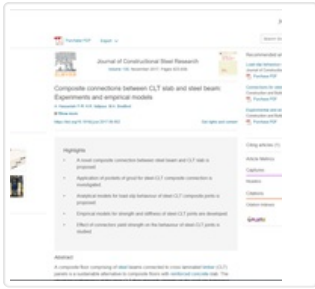
Series: Fire Science and Technology 2015

ISBN: 978-981-10-0376-9

Online Access: Payment Required

Resource Link

https://doi.org/10.1007/978-981-10-0376-9_27



Composite Connections between CLT Slab and Steel Beam: Experiments and Empirical Models

<https://research.thinkwood.com/en/permalink/catalogue1321>

Author: Amirhossein Hassanieh
Hamid Valipour
Mark Bradford

Publisher: ScienceDirect

Year of Publication: 2017

Country of Publication: Netherlands

Format: Journal Article

Material: CLT (Cross-Laminated Timber)
Steel-Timber Composite

Application: Floors

Topic: Design and Systems
Mechanical Properties
Connections

Keywords: Short-term
Push-Out Tests
Bolted Shear Connectors
Load-Slip
Failure Mode
Stiffness
Strength

Language: English

Series: Journal of Constructional Steel Research

Online Access: Payment Required

Resource Link

<https://doi.org/10.1016/j.jcsr.2017.09.002>



Cross Laminated Timber (CLT) Diaphragms under Shear: Test Configuration, Properties and Design

<https://research.thinkwood.com/en/permalink/catalogue1332>

Author: Reinhard Brandner
Philip Dietsch
Julia Dröschner
Michael Schulte-Wrede
Heinrich Kreuzinger
Mike Sieder

Publisher: ScienceDirect

Year of Publication: 2017

Country of Publication: Netherlands

Format: Journal Article

Material: CLT (Cross-Laminated Timber)

Application: General Application

Topic: Design and Systems
Mechanical Properties

Keywords: Failure Mechanisms
Gross-Shear
Net-Shear
In-Plane

Language: English

Series: Construction and Building Materials

Online Access: Payment Required

Resource Link

<https://doi.org/10.1016/j.conbuildmat.2017.04.153>



Experimental and Numerical Investigation of Short-Term Behaviour of CLT-Steel Composite Beams

<https://research.thinkwood.com/en/permalink/catalogue1334>

Author: Amirhossein Hassanieh
Hamid Valipour
Mark Bradford

Publisher: ScienceDirect

Year of Publication: 2017

Country of Publication: Netherlands

Format: Journal Article

Material: Steel-Timber Composite
CLT (Cross-Laminated Timber)

Application: Floors

Topic: Mechanical Properties

Keywords: Short-term
Peak Load
Full Scale
Four Point Bending Test
Finite Element Analysis
Load-Deflection Response
Stiffness
Failure Modes

Language: English

Series: Engineering Structures

Online Access: Payment Required

Resource Link

<https://doi.org/10.1016/j.engstruct.2017.04.052>



Feasibility of Manufacturing Cross-Laminated Timber using Fast-Grown Small Diameter Eucalyptus Lumbers

<https://research.thinkwood.com/en/permalink/catalogue1347>

Author: Yuchao Liao
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Haibin Zhou
Hong Yun
Jin Gu
Chuanshuang Hu

Publisher: ScienceDirect

Year of Publication: 2017

Country of Publication: Netherlands

Format: Journal Article

Material: CLT (Cross-Laminated Timber)

Application: General Application

Topic: Mechanical Properties

Keywords: Eucalyptus
Manufacturing
Block Shear Strength
Wood Failure Percentage
Rate of Delamination
Modulus of Rupture
Modulus of Elasticity

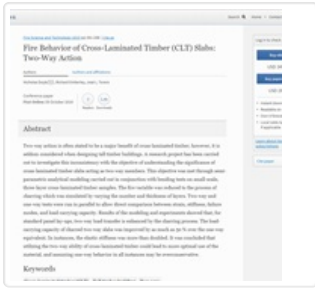
Language: English

Series: Construction and Building Materials

Online Access: Payment Required

Resource Link

<https://doi.org/10.1016/j.conbuildmat.2016.12.027>



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

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

Author: Nicholas Doyle
Richard Emberley
José Torero

Publisher: Springer, Singapore

Year of Publication: 2017

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

Series: Fire Science and Technology 2015

ISBN: 978-981-10-0376-9

Online Access: Payment Required

Resource Link

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



Improvement of Shear Strength, Wood Failure Percentage and Wet Delamination of Cross-Laminated Timber (CLT) Panels Made with Superheated Steam Treated (SHST) Layers of Larch Wood

<https://research.thinkwood.com/en/permalink/catalogue1428>

Author: Yeonjung Han
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Hyunwoo Chung
Chang-Deuk Eom
Hwanmyeong Yeo

Publisher: De Gruyter

Year of Publication: 2017

Country of Publication: Germany

Format: Journal Article

Material: CLT (Cross-Laminated Timber)

Application: General Application

Topic: Moisture
Mechanical Properties

Keywords: Larch
Dimensional Stability
Block Shear Tests
Delamination Tests
One-Component Polyurethane
Shear Strength
Wood Failure Percentage

Language: English

Series: Holzforschung

ISSN: 1437-434X

Online Access: Payment Required

Resource Link

<https://doi.org/10.1515/hf-2017-0008>