



## Acoustic Impact Testing and Waveform Analysis for Damage Detection in Glued Laminated Timber

<https://research.thinkwood.com/en/permalink/catalogue771>

Author: Feng Xu  
Xiping Wang  
Marko Teder  
Yunfei Liu

Publisher: De Gruyter

Year of Publication: 2017

Country of Publication: Germany

Format: Journal Article

Material: Glulam (Glue-Laminated Timber)

Application: General Application

Topic: Acoustics and Vibration  
Serviceability

Keywords: Decay  
Delamination  
Damage Detection  
Moment Analysis  
Wavelet Transform  
Acoustic Signals

Language: English


Research Status: Complete

Series: Holzforschung

ISSN: 1437-434X

Online Access: Payment Required

### Resource Link

<https://doi.org/10.1515/hf-2016-0237> 



## Advanced Wood Product Manufacturing Study for Cross-Laminated Timber Acceleration in Oregon & SW Washington, 2017

<https://research.thinkwood.com/en/permalink/catalogue715>

Organization: Oregon BEST  
Year of Publication: 2017  
Country of Publication: United States  
Format: Report  
Material: CLT (Cross-Laminated Timber)  
Application: General Application  
Topic: Market and Adoption  
Keywords: Market  
US  
Economic Impact  
Language: English  
Research Status: Complete  
Online Access: Free

### Resource Link

[http://oregonbest.org/fileadmin/media/Mass\\_Timber/Accelerating\\_CLT\\_Manufacturing\\_in\\_Oregon\\_\\_SW\\_Washington\\_2017\\_\\_Oregon\\_BEST\\_.pdf](http://oregonbest.org/fileadmin/media/Mass_Timber/Accelerating_CLT_Manufacturing_in_Oregon__SW_Washington_2017__Oregon_BEST_.pdf)



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

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

Author: Lorenzo Boccadoro  
René Steiger  
Simon Zweidler  
Andrea Frangi

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

Research Status: Complete

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  
Fuming Chen  
Yu Xian  
Jianchao Deng  
Ge Wang  
Haitao Cheng

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

Research Status: Complete

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>



## Apparent Sound Insulation in Cross-Laminated Timber Buildings

<https://research.thinkwood.com/en/permalink/catalogue1276>

Author: Christoph Hoeller  
Jeffrey Mahn  
Dave Quirt  
Stefan Schoenwald  
Berndt Zeitler

Organization: National Research Council of Canada

Year of Publication: 2017

Country of Publication: Canada

Format: Report

Material: CLT (Cross-Laminated Timber)

Application: Wood Building Systems

Topic: Acoustics and Vibration  
Connections

Keywords: Airborne Sound Transmission  
Adhesives

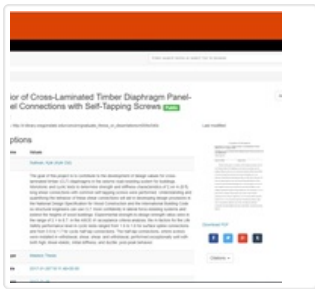
Language: English

Research Status: Complete

Online Access: Free

### Resource Link

<http://doi.org/10.4224/23002009>



# Behavior of Cross-Laminated Timber Diaphragm Panel-to-Panel Connections with Self-Tapping Screws

<https://research.thinkwood.com/en/permalink/catalogue1422>

Author: Kyle Sullivan  
Organization: Oregon State University  
Year of Publication: 2017  
Country of Publication: United States  
Format: Thesis  
Material: CLT (Cross-Laminated Timber)  
Application: Wood Building Systems  
Topic: Seismic  
Keywords: Lateral Load Resisting System  
Monotonic Tests  
Cyclic Tests  
Strength  
Stiffness  
Self-Tapping Screws  
International Building Code  
Language: English  
Research Status: Complete  
Online Access: Free

## Resource Link

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[http://ir.library.oregonstate.edu/concern/graduate\\_thesis\\_or\\_dissertations/n009w540c](http://ir.library.oregonstate.edu/concern/graduate_thesis_or_dissertations/n009w540c)



# 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

Research Status: Complete

Series: Engineering Structures

Online Access: Payment Required

## Resource Link

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



## Blast-Resistant Testing for Loaded Mass Timber Structures

<https://research.thinkwood.com/en/permalink/catalogue843>

Organization: Forest Products Laboratory  
 Year of Publication: 2017  
 Country of Publication: United States  
 Publication:  
 Format: Report  
 Material: CLT (Cross-Laminated Timber)  
 Application: Walls  
 Topic: Mechanical Properties  
 Keywords: Exterior Walls  
 Blast Loads  
 Protection  
 Language: English  
 Research Status: In Progress

### Abstract:

The objectives of this project are to develop a design methodology and to demonstrate performance for exterior bearing CLT walls used in buildings subject to force protection requirements. This methodology should be published by U.S. Army Corp of Engine...

Online Access: Free

### Resource Link

<https://www.apawood.org/data/sites/1/documents/technicalresearch/rip/fplrip-4714-033-WoodWorks-Senalik-Podesto.pdf>





## Bonding Quality of Industrially Produced Cross-Laminated Timber (CLT) as Determined in Delamination Tests

<https://research.thinkwood.com/en/permalink/catalogue1346>

Author: Markus Knorz  
Stefan Torno  
Jan-Willem Van de Kuilen

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: Delamination  
Spruce  
Number of Layers  
Layer Thickness  
Shape

Language: English

Research Status: Complete

Series: Construction and Building Materials

Online Access: Payment Required

### Resource Link

<https://doi.org/10.1016/j.conbuildmat.2016.12.057>



# Bonding Strength Test Method Assessment for Cross-Laminated Timber Derived Stressed-Skin Panels (CLT SSP)

<https://research.thinkwood.com/en/permalink/catalogue1404>

Author: Emilio Luengo  
Eva Hermoso  
Juan Carlos Cabrero  
Francisco Arriaga

Publisher: Springer Netherlands

Year of Publication: 2017

Country of Publication: Netherlands

Format: Journal Article

Material: CLT (Cross-Laminated Timber)

Application: General Application

Topic: Mechanical Properties

Keywords: Stressed-Skin Panels  
Shear Strength  
Glue Lines  
Shear Tests  
Bending Tests  
Bonding

Language: English

Research Status: Complete

Series: Materials and Structures

ISSN: 1871-6873

Online Access: Payment Required

## Resource Link

<https://doi.org/10.1617/s11527-017-1069-8>