



## Accelerated Curing of Large Scale Glued-in-Rods

<https://research.thinkwood.com/en/permalink/catalogue2018>

Author: Nils Ratsch  
Morten Voß  
Jonas Wirries  
Sebastian Myslicki  
Daniel Kohl  
Stefan Böhm  
Till Vallée  
Michael Adam

Year of Publication: 2018

Country of Publication: South Korea

Format: Conference Paper

Material: LVL (Laminated Veneer Lumber)

Application: General Application

Topic: Mechanical Properties  
Connections

Keywords: Beech  
Glued-In Rods

Language: English

Conference: World Conference on Timber Engineering

Research Status: Complete

Online Access: Free

### Resource Link

<https://indico.conference4me.psnr.pl/event/171/session/404/contribution/575/material/paper/1.pdf>



## Accurate Strength Parameters for Fasteners with Examples for Ring Shank Nails

<https://research.thinkwood.com/en/permalink/catalogue1510>

Author: Jørgen Munch-Andersen  
Staffan Svensson

Year of Publication: 2016

Country of Publication: Austria

Format: Conference Paper

Material: LVL (Laminated Veneer Lumber)

Application: General Application

Topic: Connections  
Mechanical Properties

Keywords: Withdrawal Test  
Ring Shank Nails  
Fasteners  
Strength

Language: English

Conference: World Conference on Timber Engineering

Research Status: Complete

Notes: August 22-25, 2016, Vienna, Austria  
p. 344-352

### Abstract:

Strength parameters for fasteners determined in accordance with the methods prescribed for the European CE-marking leads to quite different values for seemingly similar products from different manufactures. The results are hardly repeatable, to some extent due to difficulties in selecting representative on engineered wood products...

Online Access: Free

### Resource Link

<http://repositum.tuwien.ac.at/obvutwoa/content/pageview/1567618>



## Adhesion Performance of Melamine-Urea-Formaldehyde Resins with Various Melamine Contents for Glued Laminated Timber by High Frequency Heating System

<https://research.thinkwood.com/en/permalink/catalogue1515>

Author: Byung-Dae Park  
Keon-Ho Kim  
Kugbo Shim  
Min-Kug Hong

Year of Publication: 2016

Country of Publication: Austria

Format: Conference Paper

Material: Glulam (Glue-Laminated Timber)

Application: General Application

Topic: Connections  
Mechanical Properties

Keywords: MUF  
Adhesives  
PRF  
High Frequency  
Korea  
Delamination Test  
Pine  
Water Resistance

Language: English

Conference: World Conference on Timber Engineering

Research Status: Complete

Notes: August 22-25, 2016, Vienna, Austria  
p. 504-510

### Abstract:

This work attempted to investigate adhesion performance of melamine-urea-formaldehyde (MUF) resin adhesives for bonding glued-laminated timber (Glulam). Two preparation methods were employed to formulate MUF resins with various melamine contents from 20 % to 50 %: one-step method of synthesizing MUF resins in a batch...

Online Access: Free

### Resource Link

<http://repositum.tuwien.ac.at/obvutwoa/content/pageview/1567654> ↗



## Adhesive Bonding of Timber and Glass in Load-Bearing Facades - Evaluation of the Ageing Behaviour

<https://research.thinkwood.com/en/permalink/catalogue1742>

Author: Felix Nicklisch  
Bernhard Weller

Year of Publication: 2016

Country of Publication: Austria

Format: Conference Paper

Material: Timber-Glass Composite

Application: Hybrid Building Systems

Topic: Connections  
Serviceability

Keywords: Adhesives  
Façade  
Load Bearing

Language: English

Conference: World Conference on Timber Engineering

Research Status: Complete

Notes: August 22-25, 2016, Vienna, Austria  
p. 4913-4920

### Abstract:

Wooden constructions are on the rise again – encouraged by a strong trend towards sustainable and resource efficient buildings. Load-bearing timber-glass composite elements – a novel concept to use the in-plane loadbearing potential of glass – could contribute to a more efficient use of materials in façades. The current study relates to...

Online Access: Free

### Resource Link

<http://repositum.tuwien.ac.at/obvutwoa/content/pageview/1650010> ↗



# 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

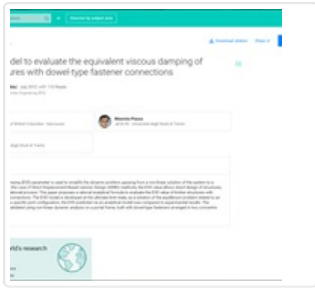
Series: Materials and Structures

ISSN: 1871-6873

Online Access: Free

## Resource Link

<https://link.springer.com/article/10.1617/s11527-017-1098-3>



# Analytical Model to Evaluate the Equivalent Viscous Damping of Timber Structures with Dowel-Type Fastener Connections

<https://research.thinkwood.com/en/permalink/catalogue1893>

Author: Cristiano Loss  
Maurizio Piazza  
Daniele Zonta

Year of Publication: 2012

Country of Publication: New Zealand

Format: Conference Paper

Material: Timber (unspecified)

Application: Frames

Topic: Connections

Keywords: Equivalent Viscous Damping  
Moment Resisting Joints  
Dowel-Type Connections  
Non-linear Dynamic Analysis  
Metal Fasteners

Language: English

Conference: World Conference on Timber Engineering

Research Status: Complete

Notes: July 16-19, 2012, Auckland, New Zealand

Online Access: Free

## Resource Link

[https://www.researchgate.net/publication/259758514\\_Analytical\\_model\\_to\\_evaluate\\_the\\_equivalent\\_viscous\\_damping\\_of\\_timber\\_structures\\_with\\_dowel-type\\_fastener\\_connections](https://www.researchgate.net/publication/259758514_Analytical_model_to_evaluate_the_equivalent_viscous_damping_of_timber_structures_with_dowel-type_fastener_connections)



# An Analytical, Numerical and Experimental Study of Non-Metallic Mechanical Joints for Engineered Timber Constructions

<https://research.thinkwood.com/en/permalink/catalogue1606>

Author: Gheorghe Bazu  
Siavash Mahjourian Namari  
Jörg Wehsener  
Jens Hartig  
Peer Haller

Year of Publication: 2016

Country of Publication: Austria

Format: Conference Paper

Material: LVL (Laminated Veneer Lumber)

Application: General Application

Topic: Connections  
Mechanical Properties

Keywords: GFRP  
Densified Veneer Wood  
Plates  
Dowels  
Load Bearing Behaviour  
Analytical Model  
Numerical Model

Language: English

Conference: World Conference on Timber Engineering

Research Status: Complete

Notes: August 22-25, 2016, Vienna, Austria  
p. 2059-2068

## Abstract:

Timber structures are strongly depending on the design of connections, which are mostly constructed from steel components. However, these joints have a number of limitations such as the tendency to be heavy, proneness to corrosion and often poor aesthetic appearances...

Online Access: Free

## Resource Link

<http://repositum.tuwien.ac.at/obvutwoa/content/pageview/1607776>



# An Experimental Study on the Ductility of Bolted Connections Loaded Perpendicular to the Grain

<https://research.thinkwood.com/en/permalink/catalogue512>

Author: Wataru Kambe  
 Kei Tanaka  
 Kotaro Kawano  
 Takumi Nakahata  
 Masafumi Inoue

Year of Publication: 2014

Country of Publication: Canada

Format: Conference Paper

Material: Glulam (Glue-Laminated Timber)

Application: General Application

Topic: Connections  
 Mechanical Properties

Keywords: Bolts  
 Ductility Factor

Language: English

Conference: World Conference on Timber Engineering

Research Status: Complete

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

### Abstract:

The fracture characteristics and deformation ability in timber engineering is very important criteria for structural design. However those fracture patterns are complex and confusing, so the quantitative evaluation is very difficult. In our past study, w...

Online Access: Free

### Resource Link

[http://sclhd.ws/hosted\\_files/wcte2014/12/ABS250\\_Kambe\\_web.pdf](http://sclhd.ws/hosted_files/wcte2014/12/ABS250_Kambe_web.pdf)





# An Innovative Connection System for CLT Structures: Experimental - Numerical Analysis

<https://research.thinkwood.com/en/permalink/catalogue460>

Author: Andrea Polastri  
Albino Angeli

Year of Publication: 2014

Country of Publication: Canada

Format: Conference Paper

Material: CLT (Cross-Laminated Timber)

Application: General Application

Topic: Connections

Keywords: Prefabrication  
Self-Tapping Screws  
X-RAD

Language: English

Conference: World Conference on Timber Engineering

Research Status: Complete

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

## Abstract:

The paper describes experimental and numerical analyses on a completely new connection system developed for CLT (Cross Laminated Timber) constructions. The innovative solution herein proposed, named X-RAD, consists of a point-to-point mechanical connecti...

Online Access: Free

## Resource Link

[http://scho.wshosted\\_files/wcte2014/f2/ABS511\\_Angeli\\_web.pdf](http://scho.wshosted_files/wcte2014/f2/ABS511_Angeli_web.pdf)



## An Innovative Hybrid Timber Structure in Japan: Beam-to-Beam Moment Resisting Connection

<https://research.thinkwood.com/en/permalink/catalogue1581>

Author: Shigeharu Kusumoto  
Shinichi Shioya  
Ryosuke Kawabe  
Kotaro Inomoto

Year of Publication: 2016

Country of Publication: Austria

Format: Conference Paper

Material: Glulam (Glue-Laminated Timber)

Application: Beams

Topic: Connections  
Mechanical Properties

Keywords: Steel Bars  
Epoxy  
Beam-to-Beam  
Four Point Bending Test  
Short-term  
Long-term  
Ductility

Language: English

Conference: World Conference on Timber Engineering

Research Status: Complete

Notes: August 22-25, 2016, Vienna, Austria  
p. 17911798

### Abstract:

Hybrid composite glulam timber reinforced using deformed steel bars and epoxy resin adhesive (RGTSB), was significantly developed in Kagoshima University. In this paper, a beam-to-beam connection for RGTSB and experimental data on the connection are presented...

Online Access: Free

### Resource Link

<http://repositum.tuwien.ac.at/obvutwoa/content/pageview/1607740>