



Assessment of the Glue-Line Quality in Glued Laminated Timber Structures

<https://research.thinkwood.com/en/permalink/catalogue654>

Author: Bettina Franke
Florian Scharmacher
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Publisher: Scientific.net

Year of Publication: 2013

Country of Publication: Switzerland

Format: Journal Article

Material: Glulam (Glue-Laminated Timber)

Application: General Application

Topic: Mechanical Properties

Keywords: Adhesives
Glue Lines
Production

Language: English

Series: Advanced Materials Research

Abstract:

Timber constructions with glulam members have regularly to be proofed for their performance to avoid structural collapse. For the assessment of glued laminated timber, it is important to know reliable methods and criteria. The requirements given in stand...

Online Access: Payment Required

Resource Link

<http://dx.doi.org/10.4028/www.scientific.net/AMR.778.424> [↗](#)



Effect of Laminated Structure Design on the Mechanical Properties of Bamboo-Wood Hybrid Laminated Veneer Lumber

<https://research.thinkwood.com/en/permalink/catalogue1407>

Author: Fuming Chen
Jianchao Deng
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Lee Smith
Sheldon Shi

Publisher: Springer Berlin Heidelberg

Year of Publication: 2017

Country of Publication: Germany

Format: Journal Article

Material: LVL (Laminated Veneer Lumber)
Other Materials

Application: General Application

Topic: Mechanical Properties
Design and Systems

Keywords: Bamboo
Poplar
Analytical Model
Density
MOE
MOR
Shear Strength
Glue Lines
Loading Tests

Language: English

Series: European Journal of Wood and Wood Products

ISSN: 1436-736X

Online Access: Payment Required

Resource Link

<https://doi.org/10.1007/s00107-016-1080-8>



Evaluation of Adhesive Systems for Treated Cross-Laminated Timber (CLT)

<https://research.thinkwood.com/en/permalink/catalogue2049>

Author: Sachin Tripathi
Hyungsuk Lim

Year of Publication: 2018

Country of Publication: South Korea

Format: Conference Paper

Material: CLT (Cross-Laminated Timber)

Application: General Application

Topic: Connections
Mechanical Properties

Keywords: Block Shear Tests
Delamination Tests
Glue Lines
Shear Strength
Resorcinol Formaldehyde
Melamine Formaldehyde
Micronized Copper Azole (MCA) Type C

Language: English

Conference: World Conference on Timber Engineering

Online Access: Free

Resource Link

<https://indico.conference4me.psnc.pl/event/171/session/337/contribution/91/material/paper/1.pdf>



Evaluation of Glue Line Shear Strength of Laminated Timber Structures Using Block and Core Type Specimens

<https://research.thinkwood.com/en/permalink/catalogue1382>

Author: Florindo Gaspar
Helena Cruz
Augusto Gomes

Publisher: Springer Berlin Heidelberg

Year of Publication: 2018

Country of Publication: Germany

Format: Journal Article

Material: Glulam (Glue-Laminated Timber)

Application: General Application

Topic: Mechanical Properties
Serviceability

Keywords: Pine
Spruce
Preservatives
Weathering
Glue Lines
Shear Strength
Cores
Modification Factor

Language: English

Series: European Journal of Wood and Wood Products

ISSN: 1436-736X

Online Access: Payment Required

Resource Link

<https://doi.org/10.1007/s00107-017-1217-4>



Planing Quality of Glulam Lamellae and its Impact on Bonding Quality and Fracture Surface Characteristics

<https://research.thinkwood.com/en/permalink/catalogue1516>

Author: Gerhard Grill
Anton Wegscheider
Johannes Konnerth
Alfred Teischinger
Andreas Neumüller

Year of Publication: 2016

Country of Publication: Austria

Format: Conference Paper

Material: Glulam (Glue-Laminated Timber)

Application: General Application

Topic: Mechanical Properties
Connections

Keywords: Bonding Quality
Shear Strength
Glue Lines
Shear Tests
Delamination
Spruce
Planing Quality

Language: English

Conference: World Conference on Timber Engineering

Notes: August 22-25, 2016, Vienna, Austria
p. 511-517

Abstract:

The surface quality of spruce wood lamellae produced in industrial plants and its impact on bonding quality was investigated comparing the two planing technologies "conventional or peripheral planing" and "face milling". Clear differences in planing quality were found with rougher and more fibrous surfaces as well as more wood...

Online Access: Free

Resource Link

<http://repositum.tuwien.ac.at/obvutwoa/content/pageview/1567655>



Screw Gluing - Theoretical and Experimental Study on Screw Pressure Distribution and Glue Line Strength

<https://research.thinkwood.com/en/permalink/catalogue1518>

Author: Katarina Bratulic
Manfred Augustin

Year of Publication: 2016

Country of Publication: Austria

Format: Conference Paper

Material: CLT (Cross-Laminated Timber)

Application: General Application

Topic: Connections
Mechanical Properties

Keywords: Screw Gluing
Glue Lines
Shear Tests

Language: English

Conference: World Conference on Timber Engineering

Notes: August 22-25, 2016, Vienna, Austria
p. 579-588

Abstract:

Screw gluing (SG) is an alternative method for the pressure application during the adhesive bonding in cases when hydraulic presses are not applicable. Since the pressure level obtained with screws is relatively low and...

Online Access: Free

Resource Link

<http://repositum.tuwien.ac.at/obvutwoa/content/pageview/1567664>



Structural Safety and Rehabilitation of Connections in Wide-Span Timber Structures - Two Exemplary Truss Systems

<https://research.thinkwood.com/en/permalink/catalogue1485>

Author: Philipp Dietsch
Michael Merk
Peter Mestek
Stefan Winter

Organization: Technical University of Munich

Year of Publication: 2008

Country of Publication: Germany

Format: Report

Material: Glulam (Glue-Laminated Timber)
LVL (Laminated Veneer Lumber)

Application: Bridges and Spans

Topic: Connections
Mechanical Properties

Keywords: Failure Mechanisms
Wide-Span
Cracks
Glue Lines
Strength

Language: English

Online Access: Free

Resource Link

<https://mediatum.ub.tum.de/doc/737234/file.pdf>



Study of Massive Timber Walls based on NLT and Post Laminated LVL

<https://research.thinkwood.com/en/permalink/catalogue1585>

Author: Chao Zhang
George Lee
Frank Lam

Organization: University of British Columbia

Year of Publication: 2018

Country of Publication: Canada

Format: Report

Material: LVL (Laminated Veneer Lumber)
NLT (Nail-Laminated Timber)

Application: Shear Walls

Topic: Connections
Mechanical Properties

Keywords: Shear Tests
Glue Lines
Lateral Loading
Sheathing
Load Carrying Capacity
Stiffness
Energy Dissipation
Shear Strength

Language: English

Abstract:

Currently the massive timber shear walls are mainly made from Cross Laminated Timber (CLT), which possesses a high in-plane shear strength and rigidity. But only part of its elements (mainly the vertically aligned laminae) are engaged in carrying the vertical load and that could be a limitation when designing taller timber structures or wherever higher...

Online Access: Free

Resource Link

<http://team.forestry.ubc.ca/files/2018/05/TEAM-Report-2017-07-Mass-Timber-Walls-based-on-NLT-and-Post-Laminated-LVL-1.pdf>