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

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

Author:	Xu, Feng
	Wang, Xiping
	Teder, Marko
	Liu, Yunfei
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:	Free

Resource Link

https://www.fs.usda.gov/treesearch/pubs/download/55133.pdf

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

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

Author:	Luengo, Emilio
	Hermoso, Eva
	Cabrero, Juan Carlos
	Arriaga, Francisco
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:	Free

Resource Link

https://www.researchgate.net/profile/Eva_Hermoso/publication/318641605_Bonding_strength_test_method_assessment_for_Cross-Laminated_Timber_Derived_Stressed-Skin_Panels_CLT_SSP/links/59dc790aaca2728e201f79a9/Bonding-strength-test-method-assessment-for-Cross-Laminated-Timber-Derived-Stressed-Skin-Panels-CLT-SSP.pdf

A Comparison of the Energy Saving and Carbon Reduction Performance between Reinforced Concrete and Cross-Laminated Timber Structures in Residential Buildings in the Severe Cold Region of China

https://research.thinkwood.com/en/permalink/catalogue1207

Author:	Guo, Haibo
	Liu, Ying
	Meng, Yiping
	Huang, Haoyu
	Sun, Cheng
	Shao, Yu
Publisher:	MDPI
Year of Publication:	2017
Country of Publication:	Switzerland
Format:	Journal Article
Material:	CLT (Cross-Laminated Timber)
Application:	Wood Building Systems
Topic:	Energy Performance
	Environmental Impact
Keywords:	Energy Consumption
	Carbon Emissions
	Residential
	Severe Cold Regions
	Simulation
	Reinforced Concrete
	Life-Cycle Assessment
Language:	English
Research Status:	Complete
Series:	Sustainability
ISSN:	2071-1050

Summary:

This paper aims to investigate the energy saving and carbon reduction performance of cross-laminated timber residential buildings in the severe cold region of China through a computational simulation approach. The authors selected Harbin as the simulation environment, designed reference residential...

Online Access: Free

Resource Link

https://doi.org/10.3390/su9081426

Cross Laminated Timber Properties Including Effects of Non-Glued Edges and Additional Cracks

https://research.thinkwood.com/en/permalink/catalogue1398

Author:	Nairn, John
Publisher:	Springer Berlin Heidelberg
Year of Publication:	2017
Country of Publication:	Germany
Format:	Journal Article
Material:	CLT (Cross-Laminated Timber)
Application:	General Application
Topic:	Serviceability
	Moisture
Keywords:	Cracks
	Thermal Expansion
	Moisture Expansion
	In-Plane
Language:	English
Research Status:	Complete
Series:	European Journal of Wood and Wood Products
ISSN:	1436-736X
Online Access:	Free

Resource Link

https://pubag.nal.usda.gov/?page=1435&per_page=100&search_field=all...&sort=date-desc

Description of Small and Large-Scale Cross Laminated Timber Fire Tests

https://research.thinkwood.com/en/permalink/catalogue1339

Author:	Emberley, Richard
	Putynska, Carmen
	Bolanos, Aaron
	Lucherini, Andrea
	Solarte, Angela
	Soriguer, Diana
	Gonzalez, Mateo
	Humphreys, Kathryn
	Hidalgo, Juan
	Maluk, Cristian
	Law, Angus
	Torero, Jose
Publisher:	ScienceDirect
Year of Publication:	2017
Country of Publication:	Netherlands
Format:	Journal Article
Material:	CLT (Cross-Laminated Timber)
Application:	Rooms
	Wood Building Systems
Topic:	Fire
Keywords:	Large Scale
	Small Scale
	Compartment Fire Test
	Heat Flux
	Temperature
	Self-Extinction
Language:	English
Research Status:	Complete
Series:	Fire Safety Journal
Online Access:	Free

Resource Link

http://discovery.ucl.ac.uk/10069562/7/Torero%20Cullen%20Submitted_pdf_.pdf

Effect of Glue-line Thickness on Pull-Out Behavior of Glued-in GFRP Rods in LVL: Finite Element Analysis

https://research.thinkwood.com/en/permalink/catalogue1331

Author:	Madhoushi, Mehrab
	Ansell, Martin
Publisher:	ScienceDirect
Year of Publication:	2017
Country of Publication:	Netherlands
Format:	Journal Article
Material:	LVL (Laminated Veneer Lumber)
Application:	General Application
Topic:	Mechanical Properties
Keywords:	Finite Element Analysis
	Glue-line Thickness
	Pull-Out Behavior
	Modulus of Elasticity
	Glued-In Rods
Language:	English
Research Status:	Complete
Series:	Polymer Testing
Online Access:	Free

Resource Link

https://www.researchgate.net/profile/Mehrab_Madhoushi/publication/318232230_Effect_of_glue-line_thickness_on_pull-out_behavior_of_glued-in_GFRP_rods_in_LVL_Finite_element_analysis/links/5b07bf68aca2725783e27457/Effect-of-glue-line-thickness-on-pull-out-behavior-of-glued-in-GFRP-rods-in-LVL-Finite-element-analysis.pdf

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

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

Author:	Chen, Fuming
	Deng, Jianchao
	Li, Xingjun
	Wang, Ge
	Smith, Lee
	Shi, Sheldon
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
Research Status:	Complete
Series:	European Journal of Wood and Wood Products
ISSN:	1436-736X
Online Access:	Free

Resource Link

https://www.researchgate.net/profile/Fuming_Chen/project/bamboo-fiber-composite/attachment/579ff63e08ae4c2f64cb1aa4/AS:390446275678208@1470101054575/download/Eur.J.+wood+and+products%28fuming%29.pdf?context=ProjectUpdatesLog

Effect of Manufacturing Parameters on Mechanical Properties of Southern Yellow Pine Cross Laminated Timbers

https://research.thinkwood.com/en/permalink/catalogue1314

Author:	Sharifnia, Houri
	Hindman, Daniel
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:	Manufacturing
	Southern Yellow Pine
	Polyurethane
	Five Point Bending Test
	Bending Stiffness
	Bending Strength
	Shear Stiffness
Language:	English
Research Status:	Complete
Series:	Construction and Building Materials
Online Access:	Free

Resource Link

https://www.researchgate.net/profile/Houri_Sharifniay_Dizboni/publication/319977923_Effect_of_manufacturing_parameters_on_mechanical_properties_of_southern_yellow_pine_cross_laminated_timbers/links/5a2f48954585155b617a251b/Effect-of-manufacturing-parameters-on-mechanical-properties-of-southern-yellow-pine-cross-laminated-timbers.pdf

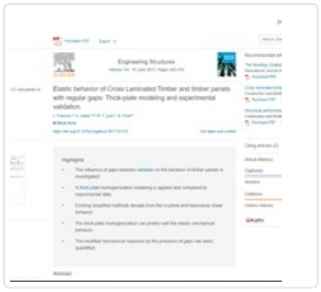
Effects of Exposed Cross Laminated Timber on Compartment Fire Dynamics

https://research.thinkwood.com/en/permalink/catalogue1340

Author:	Hadden, Rory
	Bartlett, Alastair
	Hidalgo, Juan
	Santamaria, Simón
	Wiesner, Felix
	Bisby, Luke
	Deeny, Susan
	Lane, Barbara
Publisher:	ScienceDirect
Year of Publication:	2017
Country of Publication:	Netherlands
Format:	Journal Article
Material:	CLT (Cross-Laminated Timber)
Application:	Rooms
Topic:	Fire
Keywords:	Compartment Fires
	Heat Release Rate
	Temperature
	Exposed Timber
	Auto-Extinction
	Combustible Material
	Heat Transfer
Language:	English
Research Status:	Complete
Series:	Fire Safety Journal
Online Access:	Free

Resource Link

https://doi.org/10.1016/j.firesaf.2017.03.074



Elastic Behavior of Cross Laminated Timber and Timber Panels with Regular Gaps: Thick-Plate Modeling and Experimental Validation

https://research.thinkwood.com/en/permalink/catalogue1341

Author:	Franzoni, Lorenzo
	Lebée, Arthur
	Lyon, Florent
	Forêt, Gilles
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:	Homogenization
	Gaps
	Elastic Behavior
	Bending Stiffness
	Thick Plates
Language:	English
Research Status:	Complete
Series:	Engineering Structures
Online Access:	Free

Resource Link

https://hal-enpc.archives-ouvertes.fr/hal-01691125/file/PaperSpacedCLT_PDF.pdf