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

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

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
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 Enginee...

Online Access: Free

Resource Link

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

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:	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

Capacity-Based Design for Cross-Laminated Timber Buildings

https://research.thinkwood.com/en/permalink/catalogue1255

Author:	Md Shahnewaz
	Thomas Tannert
	Shahria Alam
	Marjan Popovski
Organization:	Structures Congress
Publisher:	American Society of Civil Engineers
Year of Publication:	2017
Country of Publication:	United States
Format:	Conference Paper
Material:	CLT (Cross-Laminated Timber)
Application:	Wood Building Systems
	Shear Walls
Topic:	Mechanical Properties
	Connections
Keywords:	In-Plane Stiffness
	Strength
	Non-Linear Springs
	Finite Element Analysis
	Hysteretic Behaviour
	Cyclic Loading
Language:	English
Conference:	Structures Congress 2017
Research Status:	Complete
Notes:	April 6–8, 2017, Denver, Colorado

Abstract:

The use of cross-laminated timber (CLT) in residential and non-residential buildings is becoming increasingly popular in North America. While the 2016 supplement to the 2014 edition of the Canadian Standard for Engineering Design in Wood, CSAO86, provides provisions for CLT structures used in platform type applications, it does not provide guidance for the in-plane...

Online Access:	Payment Required

Resource Link

https://doi.org/10.1061/9780784480427.034

The Case for Tall Wood Buildings

https://research.thinkwood.com/en/permalink/catalogue835

Organization:	Michael Green Architecture
Edition:	Second
Year of Publication:	2017
Country of Publication:	Canada
Format:	Book
Application:	Wood Building Systems
Topic:	General Information
	Cost
	Environmental Impact
	Design and Systems
Keywords:	FFTT
	Tall Wood
Language:	English
Research Status:	Complete
Online Access:	Free

Resource Link

http://thecasefortallwood.com/wp-content/uploads/2017/02/2017-01-24-THE-CASE-FOR-TALL-WOOD-SECOND-EDITION.pdf

Effective Bonding Parameters for Hybrid Cross-Laminated Timber (CLT)

https://research.thinkwood.com/en/permalink/catalogue1368

Author:	Blake Larkin
Organization:	Oregon State University
Year of Publication:	2017
Country of Publication:	United States
Format:	Thesis
Material:	CLT (Cross-Laminated Timber)
Application:	General Application
Topic:	Mechanical Properties
	Connections
Keywords:	North America
	Low-Grade
	Adhesives
	Bond Integrity
	Polyurethane
	Phenol-Resorcinol Formaldehyde
	Lodgepole Pine
	Douglas-Fir
	Hemlock
	Manufacturing
Language:	English
Research Status:	Complete
Online Access:	Free

Resource Link

http://ir.library.oregonstate.edu/concern/graduate_thesis_or_dissertations/cz30px59b

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:	Mehrab Madhoushi
	Martin Ansell
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:	Fuming Chen
	Jianchao Deng
	Xingjun Li
	Ge Wang
	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
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

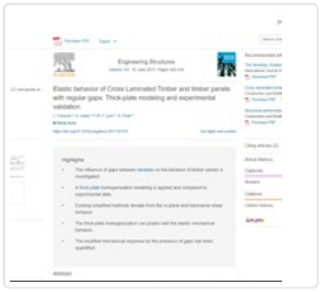
Effect of Manufacturing Parameters on Mechanical Properties of Southern Yellow Pine Cross Laminated Timbers

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

Author:	Houri Sharifnia
	Daniel Hindman
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



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:	Lorenzo Franzoni
	Arthur Lebée
	Florent Lyon
	Gilles Forêt
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