

Cradle-To-Gate Life-Cycle Assessment of Laminated Veneer Lumber (LVL) Produced in the Pacific Northwest Region of the United States

<https://research.thinkwood.com/en/permalink/catalogue783>

Author: Richard Bergman
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Organization: Forest Products Laboratory

Year of Publication: 2017

Country of Publication: United States

Format: Report

Material: LVL (Laminated Veneer Lumber)

Application: General Application

Topic: Environmental Impact

Keywords: Life-Cycle Assessment
US
Cradle-to-Gate
Production
Life-Cycle Inventory
Life-Cycle Impact Assessment

Language: English

Research Status: Complete

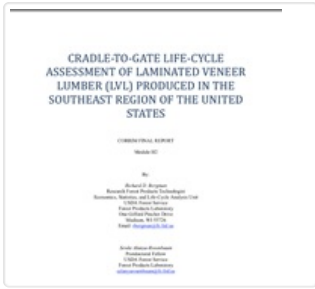
Abstract:

The goal of this study was to update life-cycle assessment (LCA) data associated with laminated veneer lumber (LVL) production in the Pacific Northwest (PNW) region of the United States from cradle-to-gate mill output. The authors collected primary mill ...

Online Access: Free

Resource Link

https://www.fpl.fs.fed.us/documnts/pdf2017/fpl_2017_bergman003.pdf



Cradle-To-Gate Life-Cycle Assessment of Laminated Veneer Lumber (LVL) Produced in the Southeast Region of the United States

<https://research.thinkwood.com/en/permalink/catalogue782>

Author: Richard Bergman
Sevda Alanya-Rosenbaum

Organization: Forest Products Laboratory

Year of Publication: 2017

Country of Publication: United States

Format: Report

Material: LVL (Laminated Veneer Lumber)

Application: General Application

Topic: Environmental Impact

Keywords: Life-Cycle Impact Assessment
US
Production
Life-Cycle Assessment
Cradle-to-Gate

Language: English

Research Status: Complete

Abstract:

The goal of the present study was to develop life-cycle impact assessment (LCIA) data associated with gate-to-gate laminated veneer lumber (LVL) production in the southeast (SE) region of the U.S. with the ultimate aim of constructing an updated cradle-t...

Online Access: Free

Resource Link

https://www.fpl.fs.fed.us/documnts/pdf2017/fpl_2017_bergman004.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: 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_rod_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



Lateral Load-Resisting System Using Mass Timber Panel for High-Rise Buildings

<https://research.thinkwood.com/en/permalink/catalogue1221>

Author: Zhiyong Chen
Ying-hei Chui

Publisher: Frontiers Media

Year of Publication: 2017

Country of Publication: Switzerland

Format: Journal Article

Material: LSL (Laminated Strand Lumber)

Application: Shear Walls
Hybrid Building Systems

Topic: Seismic
Wind
Design and Systems

Keywords: Lateral Load Resisting System
High-Rise
Dowel-Type Connections
FE model
Linear Static Analysis
Non-linear Dynamic Analysis
Timber-Steel Hybrid

Language: English

Research Status: Complete

Series: Frontiers in Built Environment

Online Access: Free

Resource Link

<https://doi.org/10.3389/fbuil.2017.00040>



Planar Shear and Bending Properties of Hybrid CLT Fabricated with Lumber and LVL

<https://research.thinkwood.com/en/permalink/catalogue1324>

Author: Zhiqiang Wang
Hongmei Fu
Meng Gong
Jiayan Luo
Weiqun Dong
Ting Wang
Ying Hei Chui

Publisher: ScienceDirect

Year of Publication: 2017

Country of Publication: Netherlands

Format: Journal Article

Material: CLT (Cross-Laminated Timber)
LVL (Laminated Veneer Lumber)

Application: General Application

Topic: Mechanical Properties

Keywords: Rolling Shear Modulus
Rolling Shear Strength
SPF
Failure Modes

Language: English

Research Status: Complete

Series: Construction and Building Materials

Online Access: Free

Resource Link

https://www.researchgate.net/profile/Zhiqiang_Wang28/publication/317833137_Planar_shear_and_bending_properties_of_hybrid_CLT_fabricated_with_lumber_and_LVL/links/59d18364a6fdcc181ad3b24f/Planar-shear-and-bending-properties-of-hybrid-CLT-fabricated-with-lumber-and-LVL.pdf



A Study Comparing the Global Warming Potential of Timber and Reinforced Concrete Construction in Office and Apartment Buildings

<https://research.thinkwood.com/en/permalink/catalogue1928>

Author: Grace Ding
Perry Forsythe

Publisher: Forest & Wood Products Australia

Year of Publication: 2017

Country of Publication: Australia

Format: Report

Material: CLT (Cross-Laminated Timber)
LVL (Laminated Veneer Lumber)

Application: Wood Building Systems

Topic: Environmental Impact

Keywords: Cradle-to-Gate
Superstructures
Reinforced Concrete
GHG

Language: English

Research Status: Complete

ISBN: 978-1-925213-56-0

Online Access: Free

Resource Link

<https://www.fwpa.com.au/resources/reports/market-access/1248-a-study-comparing-the-global-warming-potential-of-timber-and-reinforced-concrete-construction-in-office-and-apartment-buildings-pna308a-1213.html> ↗



Thermal Conductivity Values for Laminated Strand Lumber and Spruce for Use in Hybrid Cross-laminated Timber Panels

<https://research.thinkwood.com/en/permalink/catalogue1861>

Author: Jaya Tripathi
Robert William Rice

Publisher: NC State University

Year of Publication: 2017

Country of Publication: United States

Format: Journal Article

Material: LSL (Laminated Strand Lumber)
CLT (Cross-Laminated Timber)

Application: Walls
Wood Building Systems

Topic: Moisture

Keywords: Spruce
Specific Gravity
Moisture Content
Thermal Conductivity

Language: English

Research Status: Complete

Series: BioResources

Online Access: Free

Resource Link

http://ojs.cnr.ncsu.edu/index.php/BioRes/article/view/BioRes_12_4_8827_Tripathi_Thermal_Conductivity_Laminated_Strand/5641 ↗



Use of Sustainable Wood Building Materials in Bosnia and Herzegovina, Slovenia and Sweden

<https://research.thinkwood.com/en/permalink/catalogue836>

Author: Murco Obucina
Manja Kuzman
Dick Sandberg

Organization: University of Sarajevo

Year of Publication: 2017

Country of Publication: Bosnia & Herzegovina

Format: Book

Material: CLT (Cross-Laminated Timber)
DLT (Dowel Laminated Timber)
Glulam (Glue-Laminated Timber)
LSL (Laminated Strand Lumber)
LVL (Laminated Veneer Lumber)
PSL (Parallel Strand Lumber)

Application: Wood Building Systems

Topic: Design and Systems
Environmental Impact

Keywords: Bosnia and Herzegovina
Building Materials
Construction
Prefabrication
Slovenia
Sustainable
Sweden

Language: English

Research Status: Complete

Online Access: Free

Resource Link

<http://tu.diva-portal.org/smash/get/diva2:1140697/FULLTEXT01.pdf>