



## Experimental and Numerical Results on Semi-Prestressed Wood-Concrete Composite Floor Systems for Long-Span Applications

<https://research.thinkwood.com/en/permalink/catalogue727>

Author: Leander Bathon  
Peggi Clouston

Organization: Structural Building Components Association

Year of Publication: 2004

Country of Publication: United States

Format: Report

Material: Timber-Concrete Composite

Application: Floors

Topic: Design and Systems  
Mechanical Properties

Keywords: Long Span  
Shear connection  
Bending Tests  
Shear Tests  
Climate  
Semi Prestressed  
Continuous Steel Mesh

Language: English

Research Status: Complete

Online Access: Free

### Resource Link

[http://support.sbcindustry.com/Archive/2004/jun/Paper\\_058.pdf](http://support.sbcindustry.com/Archive/2004/jun/Paper_058.pdf)



## Experimental Behavior of a Continuous Metal Connector for a Wood-Concrete Composite System

<https://research.thinkwood.com/en/permalink/catalogue730>

Author: Peggi Clouston  
Scott Civjan  
Leander Bathon

Publisher: Forest Products Society

Year of Publication: 2004

Country of Publication: United States

Format: Journal Article

Material: Timber-Concrete Composite  
PSL (Parallel Strand Lumber)

Application: Floors

Topic: Connections  
Design and Systems  
Mechanical Properties

Keywords: Pine  
US  
Continuous Steel Mesh  
Steel Connectors  
Push-Out Tests  
Shear Strength  
Stiffness  
Bending Tests

Language: English

Research Status: Complete

Series: Forest Products Journal

Online Access: Free

### Resource Link

[https://www.researchgate.net/profile/Peggi\\_Clouston/publication/242231830\\_Experimental\\_behavior\\_of\\_a\\_continuous\\_metal\\_connector\\_for\\_a\\_wood-concrete\\_composite\\_system/links/5bef28c04585150b2bbc64cf/Experimental-behavior-of-a-continuous-metal-connector-for-a-wood-concrete-composite-system.pdf](https://www.researchgate.net/profile/Peggi_Clouston/publication/242231830_Experimental_behavior_of_a_continuous_metal_connector_for_a_wood-concrete_composite_system/links/5bef28c04585150b2bbc64cf/Experimental-behavior-of-a-continuous-metal-connector-for-a-wood-concrete-composite-system.pdf)



# Simulation Based Modeling of the Elastic Properties of Structural Composite Lumber

<https://research.thinkwood.com/en/permalink/catalogue1471>

Author: Laszlo Bejo  
Elemer Lang

Publisher: Society of Wood Science and Technology

Year of Publication: 2004

Country of Publication: United States

Format: Journal Article

Material: LVL (Laminated Veneer Lumber)  
PSL (Parallel Strand Lumber)

Application: General Application

Topic: Mechanical Properties

Keywords: Modulus of Elasticity  
Monte Carlo Model

Language: English

Research Status: Complete

Series: Wood and Fiber Science

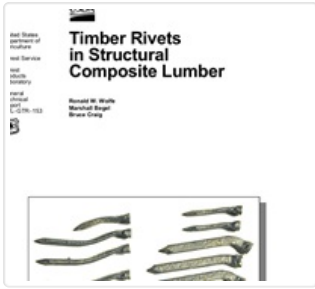
## Abstract:

Structural composite lumber (SCL) products were introduced into the construction practice several decades ago. Their apparent advantages over traditional lumber did not generate copious research interests. However, increasing demands for structural materials coupled with the decreasing quality and quantity of raw materials...

Online Access: Free

## Resource Link

<https://wfs.swst.org/index.php/wfs/article/view/1511> ↗



## Timber Rivets in Structural Composite Lumber

<https://research.thinkwood.com/en/permalink/catalogue777>

Author: Ronald Wolfe  
Marshall Begel  
Bruce Craig

Organization: Forest Products Laboratory

Year of Publication: 2004

Country of Publication: United States

Format: Report

Material: LSL (Laminated Strand Lumber)  
PSL (Parallel Strand Lumber)

Application: General Application

Topic: Connections

Keywords: Pine  
Poplar  
Rivets  
Failure

Language: English

Research Status: Complete

### Abstract:

Timber rivet connections, originally developed for use with glulam construction, may be a viable option for use with structural composite lumber (SCL) products. Tests were conducted on small samples to assess the performance and predictability of timber ...

Online Access: Free

### Resource Link

[https://www.fpl.fs.fed.us/documnts/fplgtr/fpl\\_gtr153.pdf](https://www.fpl.fs.fed.us/documnts/fplgtr/fpl_gtr153.pdf)