



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

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

Author: Bathon, Leander
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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



Simulation Based Modeling of the Elastic Properties of Structural Composite Lumber

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

Author: Bejő, László
Lang, Elemer

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

Summary:

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>