



Computer-Aided Methods for the Pragmatic Assessment of the Bearing Resistance of Glued Laminated Timber: Summary of Exemplary Simulation Studies

<https://research.thinkwood.com/en/permalink/catalogue1147>

Author: Frese, Matthias
 Organization: Karlsruher Institut für Technologie
 Publisher: KIT Scientific Publishing
 Year of Publication: 2016
 Country of Publication: Germany
 Format: Report
 Material: Glulam (Glue-Laminated Timber)
 Topic: Mechanical Properties
 Keywords: Bending Tests
 Tension Tests
 Compression Tests
 Computer Simulations
 Language: German
 Research Status: Complete
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Summary:

This book contains experiences and results of computer simulations in the field of research on glued laminated timber. Literature and references to the corresponding methodical approach are given to facilitate the access to the elementary basics. It also contains constructive explanations and critical annotations on modelling glued laminated timber for bending, tension and compression tests. Finally, the relevance of the simulation results for practical issues is discussed.

Online Access: Free

Resource Link

<http://dx.doi.org/10.5445/KSP/1000052710>



Glulam from Acetylated Radiata Pine

<https://research.thinkwood.com/en/permalink/catalogue956>

Author: Blaß, Hans Joachim
Frese, Matthias
Kunkel, Henning
Schädle, Patrick

Organization: Karlsruher Institut für Technologie

Year of Publication: 2013

Country of Publication: Germany

Format: Report

Material: Glulam (Glue-Laminated Timber)

Topic: Serviceability

Keywords: Pine
Durability
Dimensional Stability
Fasteners

Language: German


Research Status: Complete

Summary:

Acetylierte Radiata Kiefer, das Produkt einer speziellen Holzmodifikation, besitzt eine verbesserte Dauerhaftigkeit und Formstabilität. Sie ist grundsätzlich für die Herstellung von Brettschichtholz frei bewitterter Konstruktionen geeignet. In der Forschungsarbeit werden entsprechende Kennwerte, die für die Bemessung von Bauteilen und von Verbindungsmitteln erforderlich sind, mit wissenschaftlichen Verfahren hergeleitet.

Online Access: Free

Resource Link

<http://dx.doi.org/10.5445/KSP/1000034162> 



Study on a Newly Developed Diagonal Connection for Hybrid Timber Trusses Made of Spruce Glulam and Beech Laminated Veneer Lumber

<https://research.thinkwood.com/en/permalink/catalogue2459>

Author: Steige, Yvonne
Frese, Matthias

Publisher: Taylor&Francis Online

Year of Publication: 2019

Country of Publication: United Kingdom

Format: Journal Article

Material: Glulam (Glue-Laminated Timber)
LVL (Laminated Veneer Lumber)

Application: Trusses

Topic: Connections
Design and Systems

Keywords: Beech
Spruce
Diagonal Connection

Language: English

Research Status: Complete

Series: Wood Material Science & Engineering

Online Access: Free

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