



## 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  
 ISBN: 978-3-7315-0493-1

### 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

Online Access: Free

### Resource Link

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<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

### Resource Link

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<https://doi.org/10.1080/17480272.2019.1626908>