



Experimental Assessment of the Glued Laminated Timber Beams in 4-Point Bending Tests and Photoelastic Coating Technique

<https://research.thinkwood.com/en/permalink/catalogue31>

Author: Jankowski, Ludomir
Nowak, Tomasz

Publisher: Scientific.net

Year of Publication: 2015

Country of Publication: Switzerland

Format: Journal Article

Material: Glulam (Glue-Laminated Timber)

Application: Beams

Topic: Mechanical Properties

Keywords: Failure
Four Point Bending Test
Modulus of Elasticity
Bending Strength
Photoelastic Coating Technique
Strain Gauge Method

Language: English

Research Status: Complete

Series: Solid State Phenomena

Notes: doi:10.4028/www.scientific.net/SSP.240.155

Summary:

The paper presents the results of investigation on seven glued laminated timber (GL24h class) bending beams. Bending strength and modulus of elasticity were determined. The beams were tested for four-point bending by loading them at a constant speed defl...

Online Access: Free

Resource Link

<http://citeseerx.ist.psu.edu/viewdoc/download?doi=10.1.1.970.7538&rep=rep1&type=pdf>



Experimental Testing of Glued Laminated Timber Members using Ultrasonic and Stress Wave Techniques

<https://research.thinkwood.com/en/permalink/catalogue151>

Author: Nowak, Tomasz
Hamrol-Bielecka, Katarzyna
Jasienko, Jerzy

Organization: Structural Health Assessment of Timber Structures

Year of Publication: 2015

Country of Publication: Poland

Format: Conference Paper

Material: Glulam (Glue-Laminated Timber)

Application: General Application

Topic: Mechanical Properties

Keywords: Non-Destructive
Physical Properties
Spruce
Stress
Ultrasonic
Wave Propagation
Wave Techniques

Language: English

Conference: Structural Health Assessment of Timber Structures 15

Research Status: Complete

Notes: September 9-11, 2015, Wroclaw, Poland

Online Access: Free

Resource Link

https://www.researchgate.net/publication/281748796_EXPERIMENTAL_TESTING_OF_GLUED_LAMINATED_TIMBER_MEMBERS_USING_ULTRASONIC_AND_STRESS_WAVE_TECHNIQUES





High-Precision Pattern Recognition Wood Components with 3D Ultrasound

<https://research.thinkwood.com/en/permalink/catalogue937>

Author: Nowak, Tomasz
Borchardt, Kerstin

Organization: University of Kassel

Year of Publication: 2013

Country of Publication: Germany

Format: Report

Material: Glulam (Glue-Laminated Timber)
Solid-sawn Heavy Timber

Application: General Application

Topic: Mechanical Properties
Serviceability

Keywords: 3D Ultrasound
Cracks
Non-Destructive Testing
Decay

Language: German

Research Status: Complete

Online Access: Free

Resource Link

http://www.irbnet.de/daten/kbf/kbf_d_F_2849.pdf



Non-Destructive Testing of Wood—Correlation of Ultrasonic and Stress Wave Test Results in Glued Laminated Timber Members

<https://research.thinkwood.com/en/permalink/catalogue1122>

Author: Nowak, Tomasz
Hamrol-Bielecka, Katarzyna
Jasienko, Jerzy

Organization: Wroclaw University of Technology

Year of Publication: 2015

Country of Publication: Poland

Format: Journal Article

Material: Glulam (Glue-Laminated Timber)

Application: General Application

Topic: Mechanical Properties

Keywords: Non-Destructive Testing
Ultrasonic Waves
Stress Waves
Physical Properties
Spruce
Wave Propagation

Language: English

Research Status: Complete

Series: Annals of Warsaw University of Life Sciences - SGGW

Online Access: Free

Resource Link

[http://agro.icm.edu.pl/agro/element/bwmeta1.element.agro-9418364d-dd93-42e6-a17d-c7e56f06c00e?q=6d9c56ea-bf3a-4972-9e79-842c003571fa\\$1&qt=IN_PAGE](http://agro.icm.edu.pl/agro/element/bwmeta1.element.agro-9418364d-dd93-42e6-a17d-c7e56f06c00e?q=6d9c56ea-bf3a-4972-9e79-842c003571fa$1&qt=IN_PAGE)