



Experimental Analysis of Glued-In Steel Plates Used as Shear Connectors in Timber-Concrete-Composites

<https://research.thinkwood.com/en/permalink/catalogue1285>

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Country of Publication: Netherlands

Format: Journal Article

Material: Timber-Concrete Composite
 Glulam (Glue-Laminated Timber)

Application: General Application

Topic: Connections

Keywords: Steel Plates
 Epoxy
 Adhesives
 Steel Mesh
 Strength
 Stiffness
 Shear Connectors

Language: English

Series: Engineering Structures

Online Access: Payment Required

Resource Link

<https://doi.org/10.1016/j.engstruct.2018.05.062>



Fire Tests on Finger-Jointed Timber Boards

<https://research.thinkwood.com/en/permalink/catalogue170>

Author: Michael Klippel
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Organization: ETH Zurich

Year of Publication: 2014

Country of Publication: Switzerland

Format: Report

Material: Glulam (Glue-Laminated Timber)

Application: General Application

Topic: Fire

Keywords: Adhesives
Strength
Finger-joint
Temperature
Fire Resistance

Language: English

Online Access: Free

Resource Link

<http://dx.doi.org/10.3929/ethz-a-010214961> [↗](#)



Reinforcing Glued Laminated Timber with AB Initio Embedded Steel Sheets

<https://research.thinkwood.com/en/permalink/catalogue1758>

Author: Christoph Koj
Martin Trautz
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Year of Publication: 2016

Country of Publication: Austria

Format: Conference Paper

Material: Glulam (Glue-Laminated Timber)

Application: General Application

Topic: Connections
Mechanical Properties

Keywords: Reinforcement
Steel Sheets
Joints
Ductile
Load-Bearing Behavior
Adhesives
Strength

Language: English

Conference: World Conference on Timber Engineering

Notes: August 22-25, 2016, Vienna, Austria
p. 5049-5057

Abstract:

To enable high strength connections of glulam elements a new method of reinforcing the glulam with steel sheets has been developed. The steel sheets are installed 'ab initio' during the production process of the glulam. In the conducted series of test suitable adhesives and treatments of the steel surface have been selected and evaluated...

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Resource Link

<http://repositum.tuwien.ac.at/obvutwoa/content/pageview/1650027> ↗



Timber-Glass Composite Beams: Experimental Study

<https://research.thinkwood.com/en/permalink/catalogue1748>

Author: Alireza Fadai
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Year of Publication: 2016

Country of Publication: Austria

Format: Conference Paper

Material: Timber-Glass Composite

Application: Beams

Topic: Connections
Mechanical Properties

Keywords: Load Bearing Capacity
Adhesives
Silicone
Epoxy
Strength
Stiffness

Language: English

Conference: World Conference on Timber Engineering

Notes: August 22-25, 2016, Vienna, Austria
p. 4964-4971

Abstract:

Glued glass fronts are extensively applied and meet the highest standards. The objective of several research projects was the development of stiffening glass fronts to replace expensive frameworks or wind bracings. Furthermore, the use of timber-glass composite (TGC) beams was investigated. Within the research project "Load Bearing TimberGlass...

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