



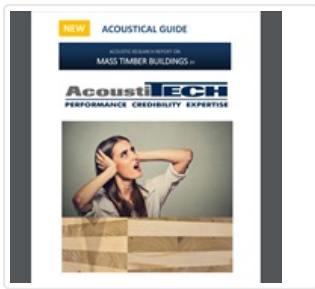
7 – Glue-Laminated Timber (Glulam)

<https://research.thinkwood.com/en/permalink/catalogue1165>

Author: Chee Beng Ong
 Publisher: ScienceDirect
 Year of Publication: 2015
 Country of Publication: Netherlands
 Publication:
 Format: Book Section
 Material: Glulam (Glue-Laminated Timber)
 Application: General Application
 Topic: General Information
 Connections
 Keywords: Production
 Adhesives
 Finger Joints
 Language: English
 Research Status: Complete
 Series: Wood Composites
 Online Access: Payment Required

Resource Link

<https://doi.org/10.1016/B978-1-78242-454-3.00007-X>



Acoustical Guide: Acoustic Research Report on Mass Timber Buildings

<https://research.thinkwood.com/en/permalink/catalogue1839>

Organization:	AcoustiTECH
Editor:	David Dompierre Samuel Garant
Publisher:	AcoustiTECH
Year of Publication:	2018
Country of Publication:	Canada
Format:	Report
Material:	CLT (Cross-Laminated Timber) Other Materials
Application:	Floors
Topic:	Acoustics and Vibration
Keywords:	Mass Timber Sound Absorption Impact Sound Insulation
Language:	English
Research Status:	Complete
Online Access:	Free

Resource Link

<https://www.acousti-tech.com/Design/PDF/mass-timber-guide.pdf> 



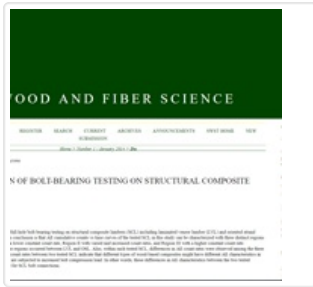
Acoustically-Tested Mass Timber Assemblies

<https://research.thinkwood.com/en/permalink/catalogue1874>

Organization:	WoodWorks
Year of Publication:	2019
Country of Publication:	United States
Format:	Report
Material:	CLT (Cross-Laminated Timber) NLT (Nail-Laminated Timber) Glulam (Glue-Laminated Timber)
Application:	Floors Walls
Topic:	Acoustics and Vibration
Keywords:	Mass Timber Sound Transmission Class Impact Isolation Class Assembly
Language:	English
Research Status:	Complete
Online Access:	Free

Resource Link

<http://www.woodworks.org/wp-content/uploads/Acoustically-Tested-Mass-Timber-Assemblies-WoodWorks.pdf>



Acoustic Emission of Bolt-Bearing Testing on Structural Composite Lumbers

<https://research.thinkwood.com/en/permalink/catalogue1443>

Author: Yicheng Du
Jilei Zhang
Sheldon Shi

Publisher: Society of Wood Science and Technology

Year of Publication: 2014

Country of Publication: United States

Format: Journal Article

Material: LVL (Laminated Veneer Lumber)
OSL (Oriented Strand Lumber)

Application: General Application

Topic: Acoustics and Vibration

Keywords: Acoustic Emission
Bolted Connection

Language: English

Research Status: Complete

Series: Wood and Fiber Science

Abstract:

Acoustic emission (AE) characteristics of full-hole bolt-bearing testing on structural composite lumbers (SCL) including laminated veneer lumber (LVL) and oriented strand lumber (OSL) were investigated. The main conclusion is that AE cumulative...

Online Access: Payment Required

Resource Link

<https://wfs.swst.org/index.php/wfs/article/view/637> [↗](#)



Acoustic Impact Testing and Waveform Analysis for Damage Detection in Glued Laminated Timber

<https://research.thinkwood.com/en/permalink/catalogue771>

Author: Feng Xu
Xiping Wang
Marko Teder
Yunfei Liu

Publisher: De Gruyter

Year of Publication: 2017

Country of Publication: Germany

Format: Journal Article

Material: Glulam (Glue-Laminated Timber)

Application: General Application

Topic: Acoustics and Vibration
Serviceability

Keywords: Decay
Delamination
Damage Detection
Moment Analysis
Wavelet Transform
Acoustic Signals

Language: English

Research Status: Complete

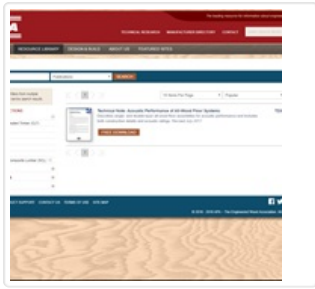
Series: Holzforschung

ISSN: 1437-434X

Online Access: Payment Required

Resource Link

<https://doi.org/10.1515/hf-2016-0237> [↗](#)



Acoustic Performance of All-Wood Floor Systems

<https://research.thinkwood.com/en/permalink/catalogue1931>

Organization: APA
Year of Publication: 2017
Country of Publication: United States
Format: Report
Material: Light Frame (Lumber+Panels)
Application: Floors
Topic: Acoustics and Vibration
Keywords: Sound Transmission Class
Impact Isolation Class
Code
Language: English
Research Status: Complete
Online Access: Free

Resource Link

<https://www.apawood.org/publication-search?q=T230&tid=1> 



Acoustic Performance of Timber and Timber-Concrete Composite Floors

<https://research.thinkwood.com/en/permalink/catalogue684>

Author: Marc Schluessel
Rijun Shrestha
Keith Crews

Year of Publication: 2014

Country of Publication: Canada

Format: Conference Paper

Material: LVL (Laminated Veneer Lumber)
Timber-Concrete Composite

Application: Floors

Topic: Acoustics and Vibration

Keywords: New Zealand
Australia
Building Code of Australia
Sound Insulation

Language: English

Conference: World Conference on Timber Engineering

Research Status: Complete

Notes: August 10-14, 2014, Quebec City, Canada

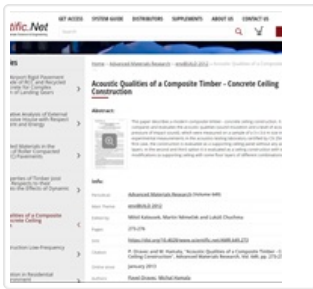
Abstract:

A major problem in light-weight timber floors is their insufficient performance coping with impact noise in low frequencies. There are no prefabricated solutions available in Australia and New Zealand. To rectify this and enable the implementation of lig...

Online Access: Free

Resource Link

http://schr.ws/hosted_files/wcte2014/68/ABS139_Crews_web.pdf



Acoustic Qualities of a Composite Timber - Concrete Ceiling Construction

<https://research.thinkwood.com/en/permalink/catalogue848>

Author: Pavel Oravec
Michal Hamala

Publisher: Scientific.net

Year of Publication: 2013

Country of Publication: Switzerland

Format: Journal Article

Material: Timber-Concrete Composite

Application: Ceiling

Topic: Acoustics and Vibration

Keywords: Sound Insulation
Impact Sound

Language: English

Research Status: Complete

Series: Advanced Materials Research

Abstract:

This paper describes a modern composite timber - concrete ceiling construction. It also compares and evaluates the acoustic qualities (sound insulation and a level of acoustic pressure of impact sound), which were measured on a sample of a 3 x 3.6 m size in the experimental measurements in the acoustics testing laboratory certified by CSI Zlin...

Online Access: Payment Required

Resource Link

<http://dx.doi.org/10.4028/www.scientific.net/AMR.649.273>



Acoustics: Sound Insulation in Mid-Rise Wood Buildings

<https://research.thinkwood.com/en/permalink/catalogue37>

Author: Stefan Schoenwald
Berndt Zeitler
Frances King
Ivan Sabourin

Organization: National Research Council of Canada

Year of Publication: 2014

Country of Publication: Canada

Format: Report

Material: CLT (Cross-Laminated Timber)
Light Frame (Lumber+Panels)

Application: Floors
Walls

Topic: Acoustics and Vibration

Keywords: Acoustics
Mid-Rise
Sound Insulation

Language: English

Research Status: Complete

Online Access: Free

Resource Link

<http://doi.org/10.4224/21274579>



Acoustics Summary: Sound Insulation in Mid-Rise Wood Building

<https://research.thinkwood.com/en/permalink/catalogue750>

Author: Stephan Schoenwald
Berndt Zeitler
Frances King
Ivan Sabourin

Organization: National Research Council of Canada

Year of Publication: 2014

Country of Publication: Canada

Format: Report

Material: CLT (Cross-Laminated Timber)
Light Frame (Lumber+Panels)

Application: Wood Building Systems

Topic: Acoustics and Vibration
Design and Systems

Keywords: Mid-Rise
Sound Insulation
Impact Sound Transmission
Airborne Sound Transmission

Language: English

Research Status: Complete

Online Access: Free

Resource Link

<http://doi.org/10.4224/21274554> 