

## 8 – Cross Laminated Timber

<https://research.thinkwood.com/en/permalink/catalogue1166>

Author:	Richard Harris
Publisher:	ScienceDirect
Year of Publication:	2015
Country of Publication:	Netherlands
Format:	Book Section
Material:	CLT (Cross-Laminated Timber)
Application:	General Application
Topic:	General Information Mechanical Properties
Keywords:	Manufacturing Research Joints
Language:	English
Series:	Wood Composites
Online Access:	Payment Required

### Resource Link

<https://doi.org/10.1016/B978-1-78242-454-3.00008-1>



## 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  
Online Access: Free

### Resource Link

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<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  
Online Access: Free

### Resource Link

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



## 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

Online Access: Free

### Resource Link

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<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

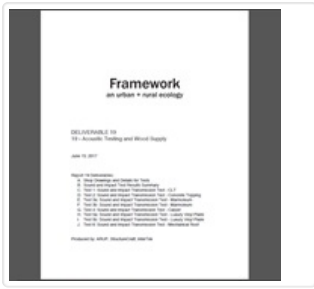
Language: English

Online Access: Free

### Resource Link

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



# Acoustic Testing and Wood Supply for Framework Office Building in Portland, OR

<https://research.thinkwood.com/en/permalink/catalogue1830>

Organization: ARUP  
StructureCraft  
InterTek

Year of Publication: 2017

Country of Publication: United States

Format: Report

Material: CLT (Cross-Laminated Timber)

Application: Floors  
Ceilings  
Walls  
Roofs  
Wood Building Systems

Topic: Acoustics and Vibration

Keywords: Sound Transmission  
Impact Noise Transmission  
Concrete Topping

Language: English

Series: Framework: An Urban + Rural Design

**Abstract:**

- A. Shop Drawings and Details for Tests
- B. Sound and Impact Test Results Summary
- C. Test 1: Sound and Impact Transmission Test - CLT
- D. Test 2: Sound and Impact Transmission Test - Concrete Topping
- E. Test 3a: Sound and Impact Transmission Test - Marmoleum
- F. Test 3b: Sound and Impact Transmission Test - Marmoleum
- G. Test 4: Sound and Impact Transmission Test - Carpet
- H. Test 5a: Sound and Impact Transmission Test - Luxury Vinyl Plank
- I. Test 5b: Sound and Impact Transmission Test - Luxury Vinyl Plank
- J. Test 6: Sound and Impact Transmission Test - Mechanical Roof

Online Access: Free

**Resource Link**

<https://www.thinkwood.com/wp-content/uploads/2018/10/19-Framework-Acoustic-Testing-and-Wood-Supply.pdf>



## Acoustic Testing of CLT and Glulam Floor Assemblies

<https://research.thinkwood.com/en/permalink/catalogue1863>

Author: Ivan Sabourin  
Organization: National Research Council of Canada  
Publisher: Regupol America  
Year of Publication: 2016  
Country of Publication: Canada  
Format: Report  
Material: CLT (Cross-Laminated Timber)  
Glulam (Glue-Laminated Timber)  
Application: Floors  
Topic: Acoustics and Vibration  
Keywords: Transmission Loss  
Impact Sound Transmission  
Impact Sound Pressure Level  
Language: English  
Series: Nordic Engineered Wood Report  
Online Access: Free

### Resource Link

<https://www.regupol.com/test-reports/pdfs/A1-008253.pdf>



## Adequate Impact Sound Protection in Light Construction and Solid Floors - Sequence of Layers. Materials Selection and Dimensioning

<https://research.thinkwood.com/en/permalink/catalogue1912>

Author: Anton Kraler  
Ewald Kammeringer

Publisher: Intergrated Digital Conference (INDICO)

Year of Publication: 2018

Country of Publication: Korea

Format: Conference Paper

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

Application: Floors

Topic: Acoustics and Vibration

Keywords: Stiffness  
Dynamic Properties  
Sound Absorption  
Multi-Storey  
Residential Buildings

Language: English

Conference: World Conference on Timber Engineering

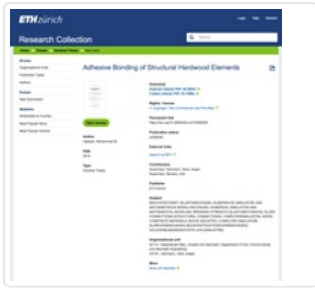
Notes: August 20-23, 2018, Seoul, Republic of Korea

Online Access: Free

### Resource Link

<https://indico.conference4me.psnr.pl/event/171/session/370/contribution/251/material/paper/1.pdf>





## Adhesive Bonding of Structural Hardwood Elements

<https://research.thinkwood.com/en/permalink/catalogue75>

Author: Mohammad Hassani  
Organization: ETH Zurich  
Year of Publication: 2015  
Country of Publication: Switzerland  
Publication:  
Format: Thesis  
Material: Glulam (Glue-Laminated Timber)  
CLT (Cross-Laminated Timber)  
Application: General Application  
Topic: Mechanical Properties  
Serviceability  
Moisture  
Keywords: Abaqus  
Adhesives  
Beech  
Bonding  
Delamination  
Finite Element Model  
Fracture  
Long-term  
Model  
Hardwood  
Language: English  
Online Access: Free

### Resource Link

<http://dx.doi.org/10.3929/ethz-a-010528229>



## Adoption of Unconventional Approaches in Construction: The Case of Cross-Laminated Timber

<https://research.thinkwood.com/en/permalink/catalogue1358>

Author: Kell Jones  
Julia Stegemann  
Judith Sykes  
Peter Winslow

Publisher: ScienceDirect

Year of Publication: 2016

Country of Publication: Netherlands

Format: Journal Article

Material: CLT (Cross-Laminated Timber)

Application: Wood Building Systems

Topic: Market and Adoption

Keywords: United Kingdom  
Construction

Language: English

Series: Construction and Building Materials

Online Access: Free

### Resource Link

<https://doi.org/10.1016/j.conbuildmat.2016.08.088>