



Acoustics: Sound Insulation in Mid-Rise Wood Buildings

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

Author: Schoenwald, Stefan
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King, Frances
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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: Schoenwald, Stefan
Zeitler, Berndt
King, Frances
Sabourin, Ivan

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> 



Acoustic Testing of CLT and Glulam Floor Assemblies

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

Author: Sabourin, Ivan
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
Research Status: Complete
Series: Nordic Engineered Wood Report
Online Access: Free

Resource Link

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



Addendum to RR-335: Sound Transmission Through Nail-Laminated Timber (NLT) Assemblies

<https://research.thinkwood.com/en/permalink/catalogue1868>

Author: Mahn, Jeffrey
Quirt, David
Hoeller, Christoph
Mueller-Trapet, Markus

Organization: National Research Council of Canada

Publisher: National Research Council Canada. Construction

Year of Publication: 2018

Country of Publication: Canada

Format: Report

Material: NLT (Nail-Laminated Timber)

Application: Floors
Walls

Topic: Acoustics and Vibration

Keywords: Sound Insulation
Assembly
Sound Transmission Class

Language: English

Research Status: Complete

Online Access: Free

Resource Link

<https://nrc-publications.canada.ca/eng/view/object/?id=9e3b39be-e0ed-415b-9649-3e7ec228f52c>



Apparent Sound Insulation in Cross-Laminated Timber Buildings

<https://research.thinkwood.com/en/permalink/catalogue1276>

Author: Hoeller, Christoph
Mahn, Jeffrey
Quirt, Dave
Schoenwald, Stefan
Zeitler, Berndt

Organization: National Research Council of Canada

Year of Publication: 2017

Country of Publication: Canada

Format: Report

Material: CLT (Cross-Laminated Timber)

Application: Wood Building Systems

Topic: Acoustics and Vibration
Connections

Keywords: Airborne Sound Transmission
Adhesives

Language: English

Research Status: Complete

Online Access: Free

Resource Link

<http://doi.org/10.4224/23002009>



Apparent Sound Insulation in Wood-Framed Buildings

<https://research.thinkwood.com/en/permalink/catalogue1952>

Author: Hoeller, Christoph
Quirt, David
Mueller-Trapet, Markus

Organization: National Research Council of Canada

Year of Publication: 2017

Country of Publication: Canada

Format: Report

Material: Light Frame (Lumber+Panels)

Application: Walls
Floors

Topic: Acoustics and Vibration

Keywords: Sound Transmission

Language: English

Research Status: Complete

Online Access: Free

Resource Link

<https://doi.org/10.4224/23002820>



Benchmarking of the Advanced Hygrothermal Model HygIRC – Large Scale Drying Experiment of the Mid-Rise Wood Frame Assembly

<https://research.thinkwood.com/en/permalink/catalogue349>

Author: Meref, Wahid
Saber, Hamed
Ganapathy, Gnanamurugan
Abdulghani, Khaled
Nicholls, Mike

Organization: National Research Council of Canada

Year of Publication: 2014

Country of Publication: Canada

Format: Report

Material: Light Frame (Lumber+Panels)

Application: Wood Building Systems

Topic: Design and Systems
Moisture

Keywords: Drying Rate
Full Scale
Hygrothermal
Mid-Rise
Moisture Content
Construction Phase

Language: English

Research Status: Complete

Online Access: Free

Resource Link

<http://doi.org/10.4224/21274563>



Building Envelope Summary: Hygrothermal Assessment of Systems for Mid-Rise Wood Buildings

<https://research.thinkwood.com/en/permalink/catalogue250>

Author: Abdulghani, Khaled
Cornick, Steve
Di Lenardo, Bruno
Ganapathy, Gnanamurugan
Lacasse, Michael
Maref, Wahid
Moore, Travis
Mukhopadhyaya, Phalguni
Nicholls, Mike
Saber, Hamed
Swinton, Michael
van Reenen, David

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: Design and Systems
Fire
Moisture

Keywords: National Building Code of Canada
Mid-Rise
Building Envelopes

Language: English

Research Status: Complete

Online Access: Free

Resource Link

<http://doi.org/10.4224/21274555>



Climatological Analysis for Hygrothermal Performance Evaluation: Mid-Rise Wood

<https://research.thinkwood.com/en/permalink/catalogue755>

Author: Cornick, Steve
Swinton, Michael

Organization: National Research Council of Canada

Year of Publication: 2014

Country of Publication: Canada

Format: Report

Material: Light Frame (Lumber+Panels)

Application: Wood Building Systems

Topic: Moisture

Keywords: Climate
Hygrothermal
Mid-Rise
Moisture Content
National Building Code of Canada
Water Penetration

Language: English

Research Status: Complete

Online Access: Free

Resource Link

<http://doi.org/10.4224/21274582>



Fire Demonstration: Cross-Laminated Timber Stair/Elevator Shaft

<https://research.thinkwood.com/en/permalink/catalogue1277>

Author: Su, Joseph
Muradori, Saša

Organization: National Research Council of Canada

Year of Publication: 2015

Country of Publication: Canada

Publication: Report

Material: CLT (Cross-Laminated Timber)

Application: Floors
Walls
Shafts and Chases

Topic: Fire

Keywords: Origine
Fire Resistance
Exterior Walls

Language: English

Research Status: Complete

Online Access: Free

Resource Link

<http://doi.org/10.4224/21277597>