



Evaluation of North American Vibration Standards for Mass-Timber Floors

<https://research.thinkwood.com/en/permalink/catalogue192>

Author: Schultz, Joshua
Johnson, Benton

Editor: M. Allen, R. Mayes, D. Rixen

Publisher: Springer

Year of Publication: 2014

Country of Publication: Switzerland

Format: Book Section

Material: CLT (Cross-Laminated Timber)

Application: Floors
Walls

Topic: Acoustics and Vibration

Keywords: North America


Language: English

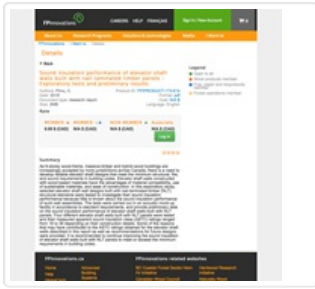
Research Status: Complete

Series: Dynamics of Coupled Structures, Volume 1. Conference Proceedings of the Society for Experimental Mechanics Series

Online Access: Payment Required

Resource Link

https://doi.org/10.1007/978-3-319-04501-6_24 



Sound Insulation Performance of Elevator Shaft Walls built with Nail-Laminated Timber Panels - Exploratory Tests and Preliminary Results

<https://research.thinkwood.com/en/permalink/catalogue364>

Author: Pirvu, Ciprian
Organization: FPInnovations
Year of Publication: 2016
Country of Publication: Canada
Publication:
Format: Report
Material: NLT (Nail-Laminated Timber)
Application: Shafts and Chases
Topic: Acoustics and Vibration
Keywords: Building Codes
Canada
Sound Insulation
Apparent Sound Insulation Class
Language: English
Research Status: Complete
Notes: Report is currently not available due to the redevelopment of FPInnovations' publications website.

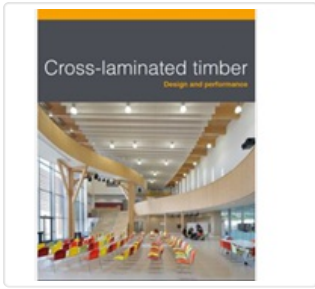
Summary:

As 6-storey wood-frame, massive-timber and hybrid wood buildings are increasingly accepted by more jurisdictions across Canada, there is a need to develop reliable elevator shaft designs that meet the minimum structural, fire, and sound requirements in building...

Online Access: Payment Required

Resource Link

<https://fpinnovations.ca/Extranet/Pages/AssetDetails.aspx?item=/Extranet/Assets/ResearchReportsWP/3296.pdf>



Cross-laminated Timber: Design and Performance

<https://research.thinkwood.com/en/permalink/catalogue2271>

Editor: Exova BM TRADA
Publisher: TRADA
Year of Publication: 2017
Country of Publication: United Kingdom
Format: Book
Material: CLT (Cross-Laminated Timber)
Application: Wood Building Systems
Topic: Design and Systems
Fire
Acoustics and Vibration
Energy Performance
Environmental Impact
Mechanical Properties
Language: English
Research Status: Complete
ISBN: 978-1909594630

Summary:

This book has been written to cover the design and performance of CLT within construction. Chapter 1 showcases its uses for architects and building designers. Chapter 2 focuses on design principles and Chapter 3 covers CLT performance, including structural design, fire performance, acoustics, thermal performance, durability, appearance, and sustainability. Chapter 4 concludes the book with thirteen case studies based on several building types. Highly illustrated with photos and technical drawings, this book demonstrates the versatility of CLT as a sustainable, engineered timber solution and will assist architects, engineers and their clients looking to work with this material.

Online Access: Payment Required

Resource Link

<https://www.trada.co.uk/books-online/cross-laminated-timber-design-and-performance/>