



Advanced Wood-Based Solutions for Mid-Rise and High-Rise Construction: In-Situ Testing of the Origine 13-Storey Building for Vibration and Acoustic Performances

<https://research.thinkwood.com/en/permalink/catalogue1474>

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Organization: FPInnovations

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Format: Report

Material: CLT (Cross-Laminated Timber)

Application: Wood Building Systems
Floors
Walls

Topic: Acoustics and Vibration
Serviceability

Keywords: Origine
Natural Frequencies
Damping Ratios
Sound Insulation
Ambient Vibration Tests
Static Deflection
Apparent Sound Transmission Class
Apparent Impact Insulation Class

Language: English

Research Status: Complete

Notes: Report is currently not available due to the redevelopment of FPInnovations' publications website.

Summary:

Serviceability performance studied covers three different performance attributes of a building. These attributes are 1) vibration of the whole building structure, 2) vibration of the floor system, typically in regards to motions in a localized area within the entire floor plate, and 3) sound insulation performance of the wall and floor assemblies...

Online Access: Payment Required

Resource Link

https://fpinnovations.ca/Extranet/Pages/AssetDetails.aspx?item=/Extranet/Assets/ResearchReportsWP/16795.pdf#_Wz0Cq_lKiUI