



Advanced wood-based solutions for mid-rise and high-rise construction: in-situ testing of the arbora building for vibration and acoustic performances

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Date: April 2018

Material Type: Research report

Physical Description: 40 p.

Sector: Wood Products

Field: Sustainable Construction

Research Area: Advanced Wood Materials

Subject: Wood
Vibration
Design
Beams
Floors

Language: English

Abstract:

This report addresses serviceability issues of tall wood buildings focusing on vibration and sound insulation performance. The sound insulation and vibration performance may not affect building's safety, but affects occupants' comfort and proper operation of the buildings and the function of sensitive equipment, consequently the acceptance of midrise and tall wood buildings in market place. Lack of data, knowledge and experience of sound and vibration performance of tall wood buildings is one of the issues related to design and construction of tall wood buildings.

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