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Open Seminar for Sustainable Humanosphere

RISH, Kyoto University

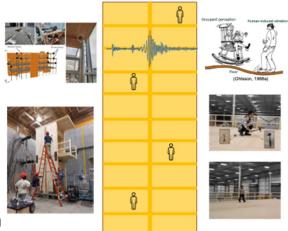
Vibrational performance of mass timber buildings



severability design

Mass timber buildings are increasing in height and size globally, driven by advancements in research on their

seismic and fire performance, changes in building codes, sustainability credits, and off-site construction methods. The high strength-to-density ratio of wood benefits seismic performance; however, it poses challenges in meeting the serviceability design criteria for human- and wind-induced vibrations. This presentation will provide an introduction to the vibration performance of mass timber buildings, focusing on the design for mass timber floor vibration serviceability and the dynamic properties of selected mass timber buildings. Research findings from a Canadian context will be presented and discussed, with suggestions for future research.



Vibrations in Mass Timber Building

The "open seminar" is a casual research meeting during lunch time on Wednesdays, with the aim of sharing research results, and enhancing collaborations.

https://www.rish.kvoto-u.ac.ip/open seminar 2022/



Organized by Research Institute for Sustainable Humanosphare, Kyoto University