



Design and Behavior of a Mid-Rise Cross-Laminated Timber Building

<https://research.thinkwood.com/en/permalink/catalogue242>

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 Year of Publication: 2012
 Country of Publication: United States
 Format: Thesis
 Material: CLT (Cross-Laminated Timber)
 Application: Wood Building Systems
 Topic: Seismic
 Keywords: Finite Element Model
 Shake Table Test
 Full Scale
 Moment Resistance
 Language: English
 Research Status: Complete

Summary:

Cross-Laminated Timber (CLT) is a new engineered wood material that was introduced in the past decade as a promising candidate to build structures over 10 stories. So far, a handful of tall CLT buildings have been built in low seismic regions around the world. Full-scaled seismic shaking table tests revealed the vulnerability of this building type when resisting seismically-induced overturning. This study proposes a new analysis and design approach for developing overturning resistance for platform CLT buildings. New structural detailing is proposed to alter the moment-resisting mechanism and ...

Online Access: Free

Resource Link

<http://hdl.handle.net/11124/169999> ↗