



Failure Analysis of CLT Shear Walls with Opening Subjected to Horizontal and Vertical Loads

<https://research.thinkwood.com/en/permalink/catalogue1655>

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Format: Conference Paper

Material: CLT (Cross-Laminated Timber)

Application: Shear Walls

Topic: Mechanical Properties

Keywords: Opening
FEM
Horizontal Loading
Failure

Language: English

Conference: World Conference on Timber Engineering

Research Status: Complete

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Abstract:

CLT wall panels having an opening were subjected to horizontal loading and the failure process of CLT around the opening was compared with the simulation by Finite Element Method. Three types of CLT wall panels of 3500mm length and 2700mm height had an opening of 1500mm length and 900mm to 2000mm height at the center of...

Online Access: Free

Resource Link

<http://repositum.tuwien.ac.at/obvutwoa/content/pageview/1649346> ↗



Racking Resistance and Ductility of CLT Shear Walls Under Horizontal and Vertical Loads

<https://research.thinkwood.com/en/permalink/catalogue457>

Author: Motoi Yasumura
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Country of Publication: Canada

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Material: CLT (Cross-Laminated Timber)

Application: Shear Walls

Topic: Mechanical Properties
Connections

Keywords: Yield Load
Ultimate Load
Failure Modes
Joints
Hold-Down

Language: English

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Abstract:

This paper shows the racking test results of CLT shear walls with different failure modes. The failure modes of shear walls were designed by using reliability analysis considering the failure of the hold down connections at the bottom end of shear wall a...

Online Access: Free

Resource Link

http://schr.ws/hosted_files/wcte2014/5e/ABS678_Yasumura_web.pdf



Strength Properties of CLT Composed of Sugi Laminations : (9) Small Scale CLT Shear Wall

<https://research.thinkwood.com/en/permalink/catalogue984>

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Strength Properties
Sugi

Language: Japanese

Research Status: Complete

Online Access: Free

Resource Link

<https://www.nuigalway.ie/media/timberengineeringresearchgroup/files/2016-Sikora-et-al-ConBuildMat-116-141-150.pdf>