



## Comparison of the Seismic Performance of Different Hybrid Timber-Steel Frame Configurations

<https://research.thinkwood.com/en/permalink/catalogue1775>

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Format: Conference Paper

Application: Hybrid Building Systems  
Shear Walls

Topic: Seismic  
Design and Systems

Keywords: Finite Element Model  
Timber-Steel Hybrid  
Deformation  
Lateral Loading  
Abaqus  
Displacement  
Inter-Story Drift  
Diaphragm

Language: English

Conference: World Conference on Timber Engineering

Research Status: Complete

Notes: August 22-25, 2016, Vienna, Austria  
p. 5401-5408

### Summary:

This paper presents a finite element modeling case study of three different designs of hybrid timber-steel 6-story buildings. One of the buildings is composed by steel frames and timber diaphragms while the other two cases consist of the initial design with timber shear walls added in different dispositions, one with outer walls and the other...

Online Access: Free

### Resource Link

<http://repositum.tuwien.ac.at/obvutwoa/content/pageview/1650102>



## High-Capacity Hold-Down for Tall Timber Buildings

<https://research.thinkwood.com/en/permalink/catalogue1529>

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Material: CLT (Cross-Laminated Timber)

Application: Hybrid Building Systems  
Wood Building Systems

Topic: Design and Systems  
Seismic  
Mechanical Properties

Keywords: Holz-Stahl-Komposit  
Hold-Down  
Seismic Load  
Strength  
Stiffness  
Ductility  
Failure Mechanisms  
Quasi-Static  
Monotonic Loading  
Reverse Cyclic Loading

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### Summary:

The structural use of wood in North America is dominated by light wood-frame construction used in low-rise and – more recently – mid-rise residential buildings. Mass timber engineered wood products such as laminated veneer-lumber and cross-laminated timber (CLT) panels...

Online Access: Free

### Resource Link

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