



Static and Dynamic Behavior of Stiffening Shear Walls in Dowel-Laminated Timber Construction

<https://research.thinkwood.com/en/permalink/catalogue932>

Author: Sandhaas, Carmen
Blaß, Hans Joachim

Organization: Karlsruher Institut für Technologie

Year of Publication: 2016

Country of Publication: Germany

Format: Report

Material: DLT (Dowel Laminated Timber)

Application: Shear Walls
Wood Building Systems

Topic: Seismic
Connections

Keywords: Joints
Cyclic Tests
Q Factor
Dynamic Building Model

Language: German

Research Status: Complete

Summary:

Joints and shear walls of buildings made from dowel-laminated timber were experimentally investigated and assessed. Based on cyclic tests on shear walls, a nonlinear dynamic building model was developed. The developed model served to evaluate the seismic behaviour of buildings made from dowel-laminated timber and to derive a preliminary behaviour factor q required for seismic design of this building typology.

Online Access: Free

Resource Link

<http://dx.doi.org/10.5445/KSP/1000051046>