Seismic Performance of Cross-Laminated Timber and Cross-Laminated Timber-Concrete Composite Floor Diaphragms

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Organization:	TallWood Design Institute
Material:	CLT (Cross-Laminated Timber)
Application:	Floors
Topic:	Seismic
Keywords:	Stiffness
	Diaphragms
	Concrete Topping
	Tall Wood
	Strength
Research Status:	In Progress
Notes:	Project contact is André Barbosa at Oregon State University

Summary:

This project develops benchmark data needed to generate design guidelines for structural engineers to calculate strength & stiffness of CLT-diaphragms, with and without concrete toppings. The project includes a full-scale test of a two-story mass timber building at the UC San Diego shake table in collaboration with the larger project, “Development and Validation of a Resilience-based Seismic Design Methodology for Tall Wood Buildings” which features collaborators from throughout the western US and is funded by the Natural Hazards Engineering Research Infrastructure (NHERI) program of the National Science Foundation.