



Advanced Wood-Based Solutions for Mid-Rise and High-Rise Construction: Structural Performance of Post-Tensioned CLT Shear Walls with Energy Dissipators

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Material: CLT (Cross-Laminated Timber)
 Glulam (Glue-Laminated Timber)
 LVL (Laminated Veneer Lumber)
 LSL (Laminated Strand Lumber)

Application: Shear Walls

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 Mechanical Properties
 Seismic

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Summary:

The latest developments in seismic design philosophy have been geared towards developing of so called "resilient" or "low damage" innovative structural systems that can reduce damage to the structure while offering the same or higher levels of safety to occupants. One such innovative structural system is the Pres-Lam system that is a wood-hybrid system that utilizes post-tensioned (PT) mass timber components in both rigid-frame and wall-based buildings along with various types of energy dissipators. To help implement the Pres-Lam system in Canada and the US, information about the system performance made with North American engineered wood products is needed. That information can later be used to develop design guidelines for the designers for wider acceptance of the system by the design community. ...

Online Access: Payment Required

Resource Link

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