



Fire Resistance of Unprotected CLT Floors & Walls Manufactured in the U.S.

<https://research.thinkwood.com/en/permalink/catalogue2262>

Organization: TallWood Design Institute
Material: CLT (Cross-Laminated Timber)
Application: Floors
Walls
Topic: Fire
Keywords: Douglas-Fir
SPF
Connections
Adhesives
Structural Integrity

Research Status: In Progress

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Summary:

This project will document the flammability of Douglas-fir and spruce-pine-fir CLT panel assemblies produced in the United States. Tests are being conducted on wall and floor panel assemblies with standard overlapping connections and produced with two different types of commonly-used adhesives. Sensors placed throughout panels will provide data about how fire affects the interior and exterior of a panel. A thermal imaging camera will provide information on how the structural integrity of panels is affected by fire and fire suppression activities.