



Evaluating Fire Performance of Nail-Laminated Timber

<https://research.thinkwood.com/en/permalink/catalogue2092>

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Organization: FPInnovations

Year of Publication: 2019

Country of Publication: Canada

Format: Report

Material: NLT (Nail-Laminated Timber)

Application: Wood Building Systems

Topic: Fire

Keywords: Fire Resistance
NBCC
Fire Safety

Language: English

Research Status: Complete

Abstract:

The objective of this work is to generate fire resistance data for NLT assemblies to address significant gaps in technical knowledge. This research will support designers and builders in the use of mass timber assemblies in larger and taller buildings, as well as provide scientific justification for Authorities Having Jurisdiction (AHJ) to review and accept this construction method. The intent is to demonstrate that NLT construction can meet or exceed NBCC fire safety requirements for use in buildings of mass timber construction.

The data could be used towards the inclusion of an NLT fire resistance calculation methodology into Annex B of CSA 086 - Engineering Design for Wood, which currently addresses only glue-laminated timber (GLT), structural composite lumber (SCL) and cross-laminated timber (CLT).

Online Access: Free

Resource Link

https://www.bcfii.ca/system/files/reports/public/fii_-_nlt_fire_resistance_report_-_final.pdf