



Analysis of Full-Scale Fire-Resistance Tests of Structural Composite Lumber Beams

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 Material: LSL (Laminated Strand Lumber)
 LVL (Laminated Veneer Lumber)
 PSL (Parallel Strand Lumber)
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 Topic: Fire
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 Type X Gypsum Board
 Fire Resistance
 Full Scale
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Summary:

The key objective of this study is to analyze full-scale fire-resistance tests conducted on structural composite lumber (SCL), namely laminated veneer lumber (LVL), parallel strand lumber (PSL) and laminated strand lumber (LSL). A sub-objective is to evaluate the encapsulation performance of Type X gypsum board directly applied to SCL beams and its contribution to fire-resistance of wood elements.

The test data is being used to further support the applicability of the newly developed Canadian calculation method for mass timber elements, recently implemented as Annex B of CSA O86-14.

Online Access: Free

Resource Link

<https://library.fpinnovations.ca/en/permalink/fpipub3316>