



Advanced wood-based solutions for mid-rise and high-rise construction: Mid-rise wood exit shaft demonstration fire test report

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Sector: Wood Products

Field: Sustainable Construction

Research Area: Advanced Wood Materials

Subject: Wood
Fire
Building code
Residential construction

Language: English

Abstract: FPInnovations conducted a research project to study the construction of mid-rise wood exit shafts in Ontario and Québec. The scope of the project included an investigation into the concerns that have been raised in regards to the use of wood exits in mid-rise buildings, an analysis of recent Canadian fire statistics in residential multi-family structures, and a fire demonstration of a mass timber wall and supported light-frame floor. This report describes the fire demonstration completed as part of this project; this report acts as a supplement to the full project report.

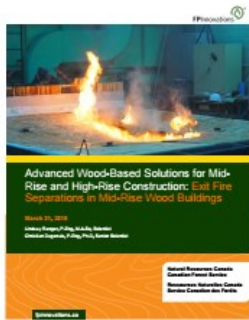
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Advanced wood-based solutions for mid-rise and high-rise construction: exit fire separations in mid-rise Wood buildings

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Author: Ranger, Lindsay
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Sector: Wood Products

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Abstract: In 2015, the National Building Code of Canada (NBCC) [1] adopted prescriptive provisions to allow the construction of mid-rise (5- and 6-storey) buildings using combustible construction. These types of buildings were already permitted under the British Columbia Building Code, as of 2009 [2]. In 2014 the Province of Ontario filed an amendment to also allow mid-rise wood buildings, however, it required that the exit fire separations be built using noncombustible construction having a fire resistance rating (FRR) of not less than 1.5-hr, which was an increase from the 1-hr requirement in the NBCC. The Québec Construction Code has also filed amendments to allow mid-rise wood construction and also limits exit stairwells to use noncombustible construction.

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Characterization of fires in residential buildings

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 Date: March 2009
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 Language: English
 Abstract: Fires, Building - Tests

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