



Fire safety design for non-residential buildings

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Author: Mehaffey, J.R. (Jim)
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 Subject: Safety
 Residential construction
 Design
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 Abstract: The wood products industry wants to expand its market share in non-residential buildings. This is a challenging goal because building codes exhibit a bias against the use of wood products, particularly in the construction of non-residential buildings. The move towards adoption of performance-based building codes offers the promise of eliminating such biases. However, in order to be prepared for the introduction of performance-based codes, architects, engineers and building code officials have pointed out the need for engineering tools to assess the fire performance of buildings.

This five-year project was initiated to develop fire-safety design tools for non-residential wood-frame buildings, and to foster development and delivery of educational programs to train students and practitioners in performance-based fire-safety design. In order to achieve these goals an NSERC Industrial Research Chair in Fire Safety Engineering was established at Carleton University in March of 2001. This report summarises the progress towards these goals made by the Chair in his first year of tenure.

Non-residential buildings
 Fire safety design

Documents



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Characterization of Fires in Residential Buildings	
Project Title	Characterization of Fires in Residential Buildings
Project No.	4918
Project Start	April 2007
Project End	March 2008
Project Manager	John G. Gosselin

Long-Term Objectives
 • To determine the fire hazard and provide information to enhance the fire safety and fire protection of residential buildings.
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Key Objectives
 • To determine the fire hazard and provide information to enhance the fire safety and fire protection of residential buildings.
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No.	Activity	Completion Date
1	Characterization of residential fires in the Province of Quebec	April 2007
2	Characterization of residential fires in the Province of Quebec	April 2007
3	Characterization of residential fires in the Province of Quebec	April 2007
4	Characterization of residential fires in the Province of Quebec	April 2007

Notes
 This report was prepared in April 2008 to provide information to enhance the fire safety and fire protection of residential buildings. The report was prepared in April 2008 to provide information to enhance the fire safety and fire protection of residential buildings. The report was prepared in April 2008 to provide information to enhance the fire safety and fire protection of residential buildings.

Characterization of fires in residential buildings

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