



## Solutions for Mid-Rise Wood Construction: Full-Scale Apartment Fire Test with Lightweight Steel Frame Construction

<https://research.thinkwood.com/en/permalink/catalogue742>

Author: Taber, Bruce  
Lougheed, Gary  
Su, Joseph  
Bénichou, Noureddine

Organization: National Research Council of Canada

Year of Publication: 2014

Format: Report

Material: Light Frame (Lumber+Panels)

Application: Wood Building Systems

Topic: Fire

Keywords: Mid-Rise  
National Building Code of Canada  
Residential

Research Status: Complete

### Summary:

The acceptable solutions provided in the 2010 National Building Code (NBC) Division B [1] limits the use of combustible (wood) construction based on building height. For example, for Group C (Residential), Group D (Business and Personal Services) and Group E (Mercantile) occupancies, combustible construction can be used up to 4 storeys, and up to 2 storeys for Group A – Division 2 (Assembly) occupancies. In addition to the building height limitation, there are also building area limitations in the 2010 NBC for the use of combustible construction for these occupancies. For buildings that exceed the height and area requirements for combustible construction, the prescriptive requirements in the 2010 NBC require that noncombustible construction be used for the primary structural elements.

Online Access: Free

### Resource Link

<http://doi.org/10.4224/21274574>