

NIST Technical Note 1838  
Simulation of an Attic Fire  
in a Wood Frame Residential  
Structure - Chicago, IL  
Issued August 2014

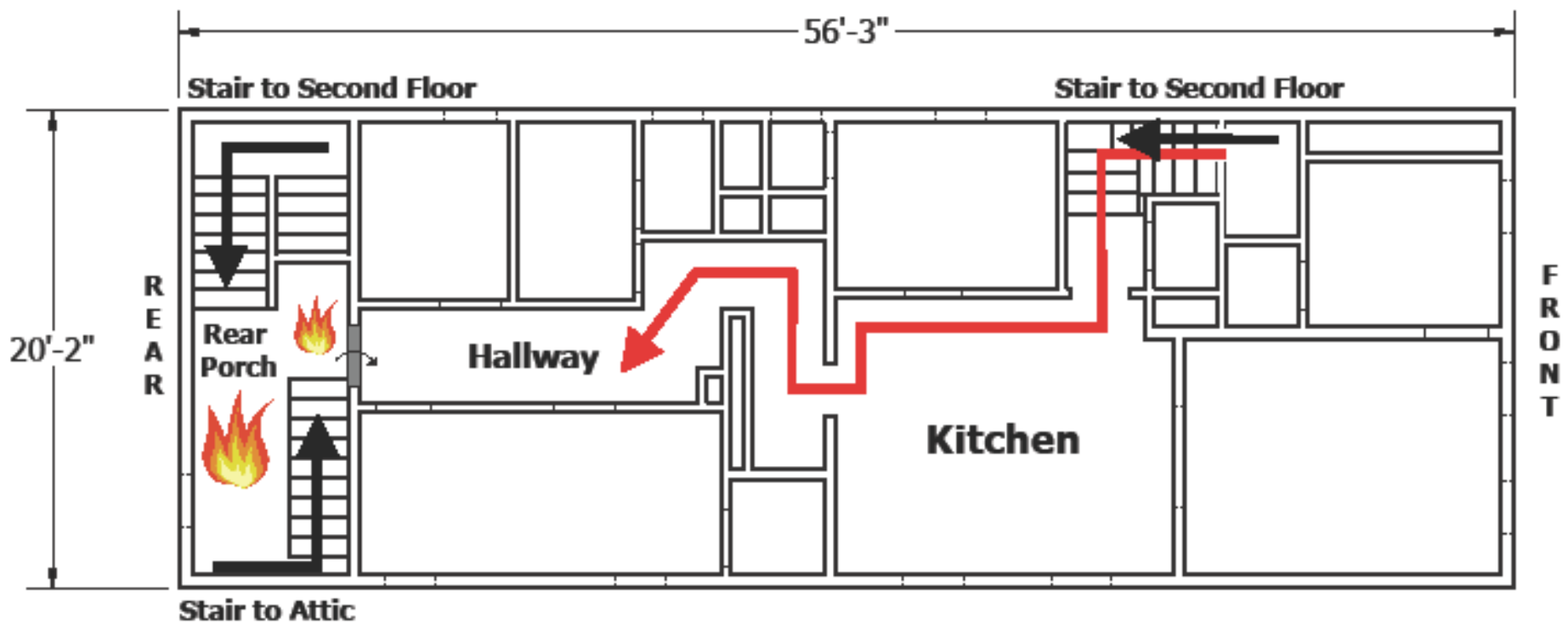
Craig G. Weinschenk  
Kristopher J. Overholt  
Daniel Madrzykowski

[https://www.youtube.com/watch?v=nY3JO\\_Kf9Qk](https://www.youtube.com/watch?v=nY3JO_Kf9Qk)

# November 2, 2012



# Second Floor

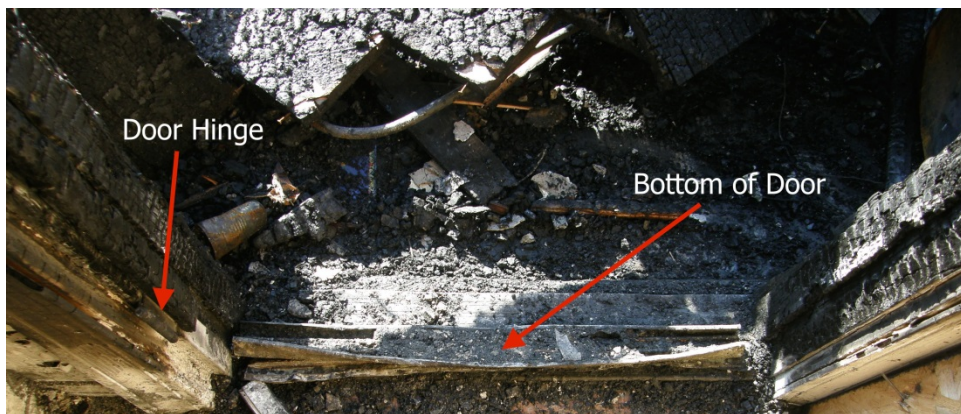




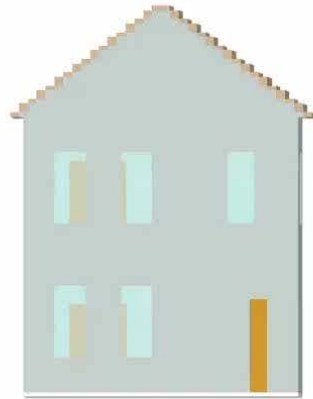




# Remains of Door to the Rear Porch

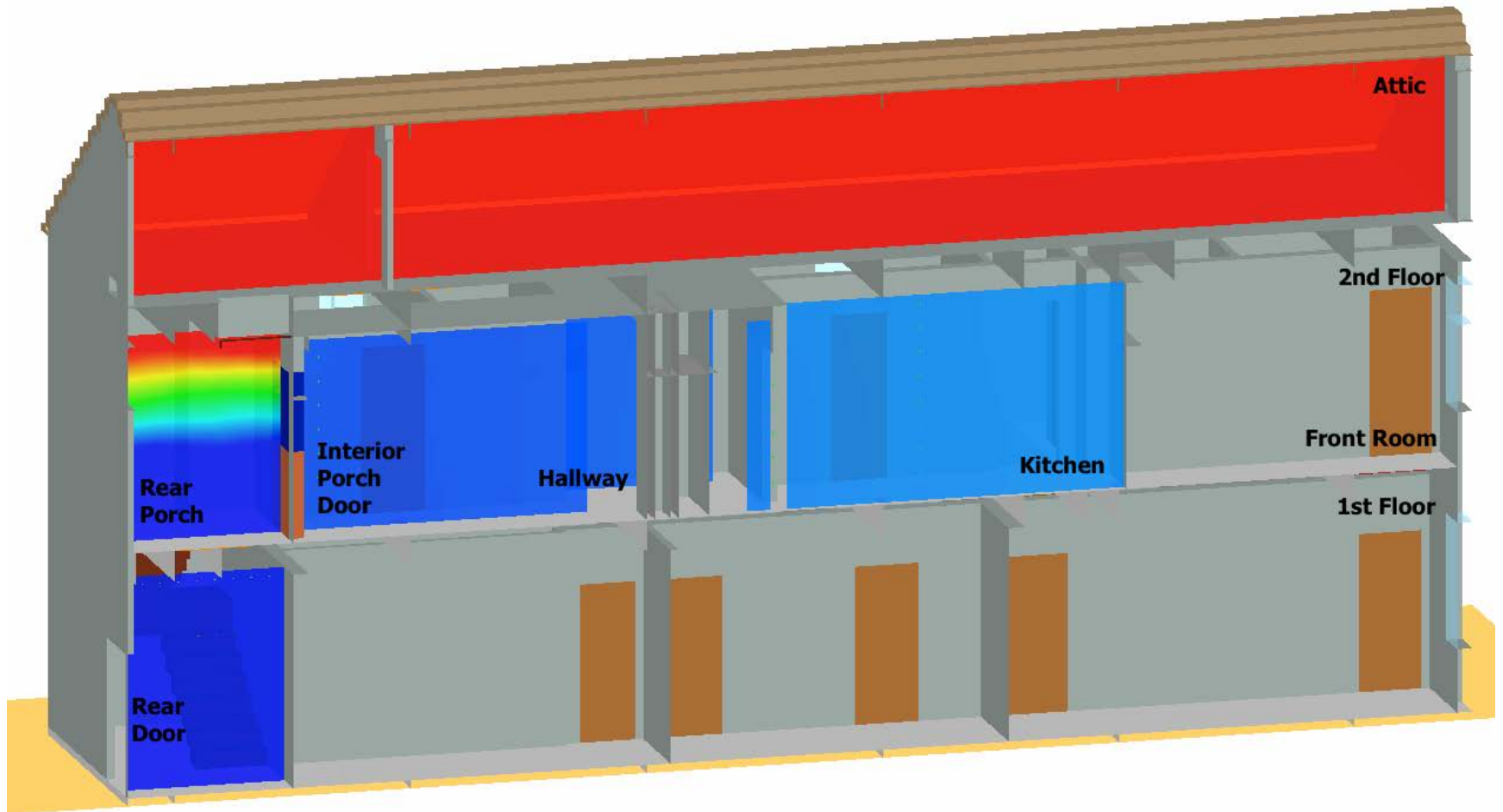


# FDS/Smokeview

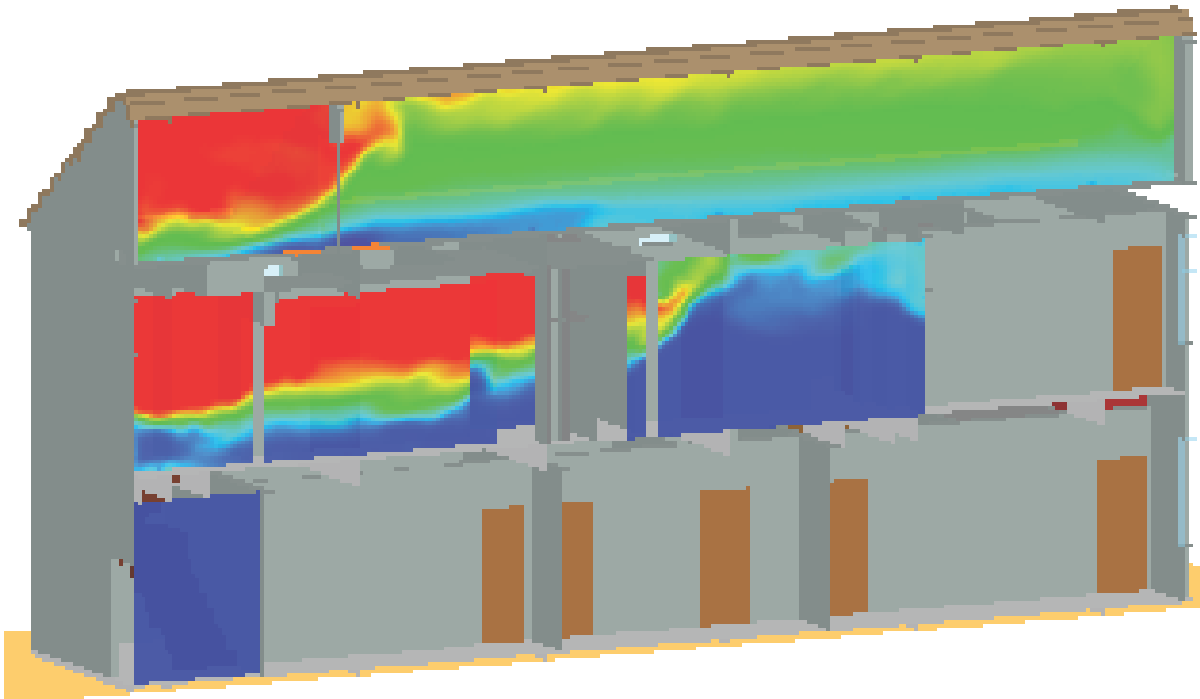


Front

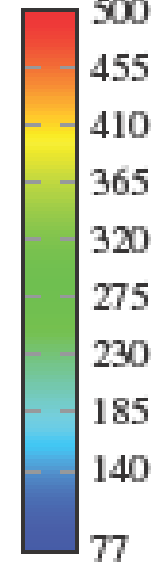
# Pressure



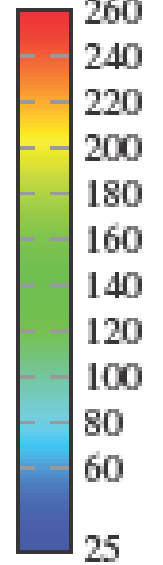
# Temperature



Temperature  
°F

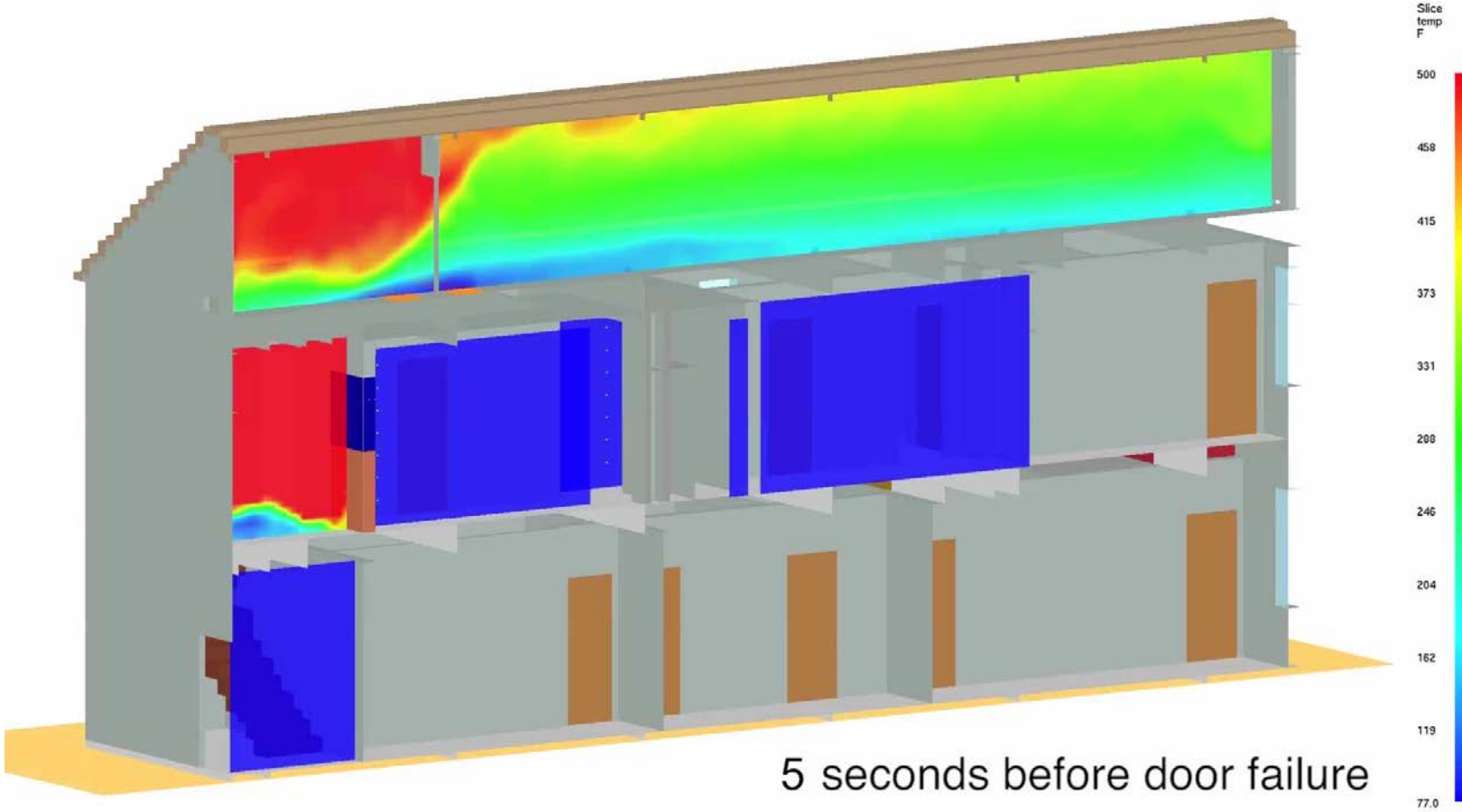


Temperature  
°C





# Conditions Change in Seconds



NIST Technical Note 1856  
Simulation of a Fire in a Hillside  
Residential Structure -  
San Francisco, CA  
Issued November 2014  
Kristopher J. Overholt  
Craig G. Weinschenk  
Daniel Madrzykowski

<https://www.youtube.com/watch?v=pgDbsv62cu8>

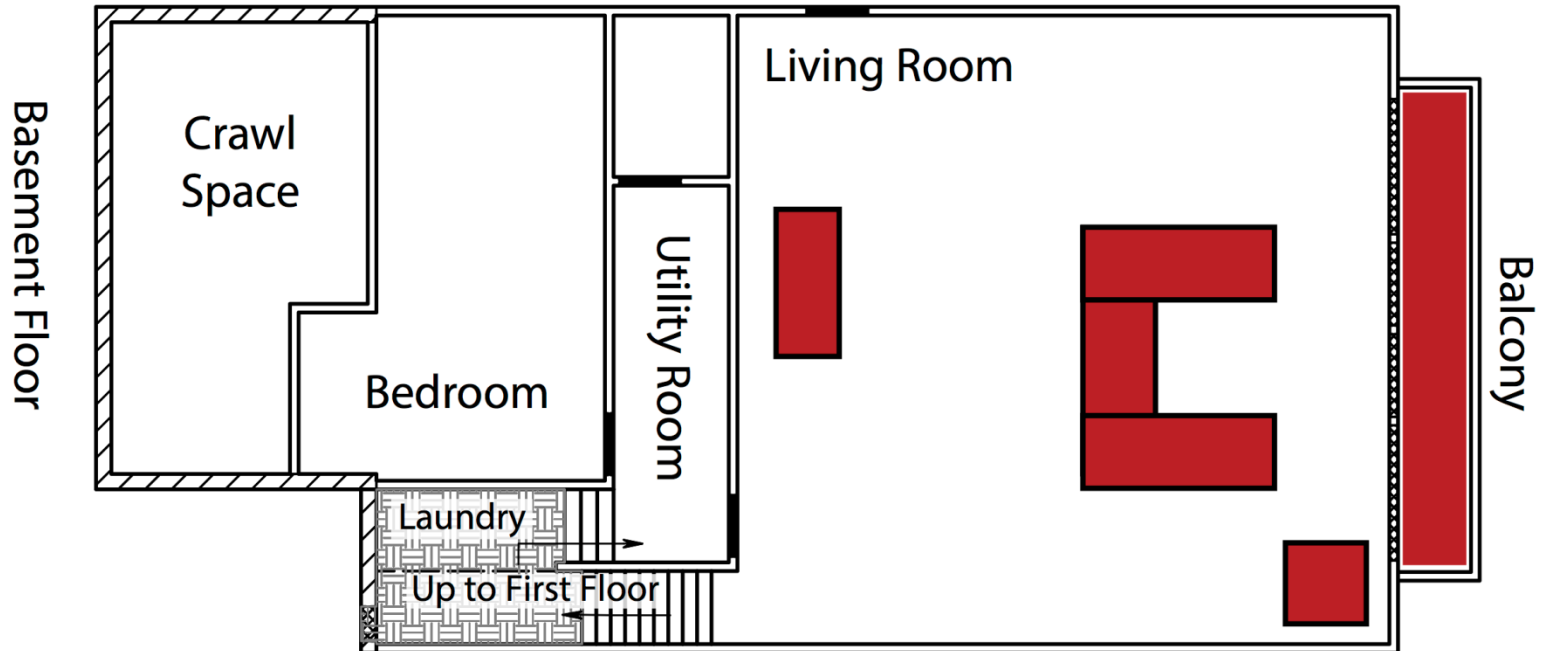
June 2, 2011



# Lower Level – Area of Origin

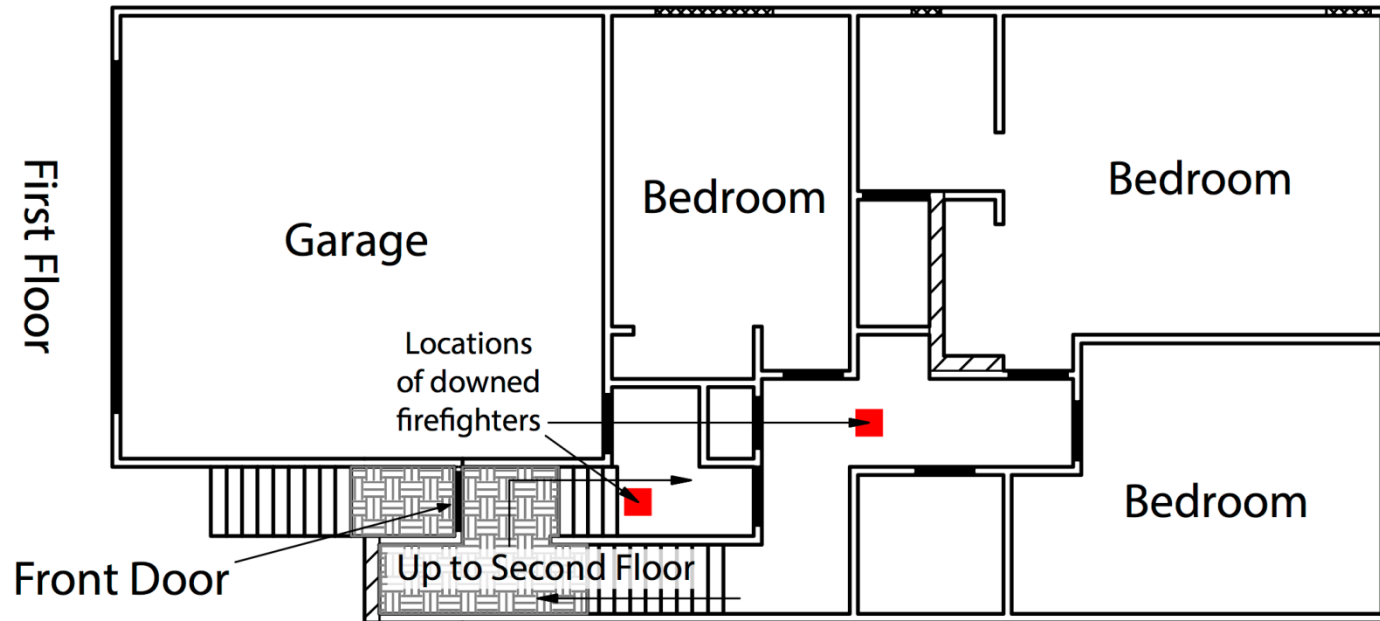
Front Side

Rear Side



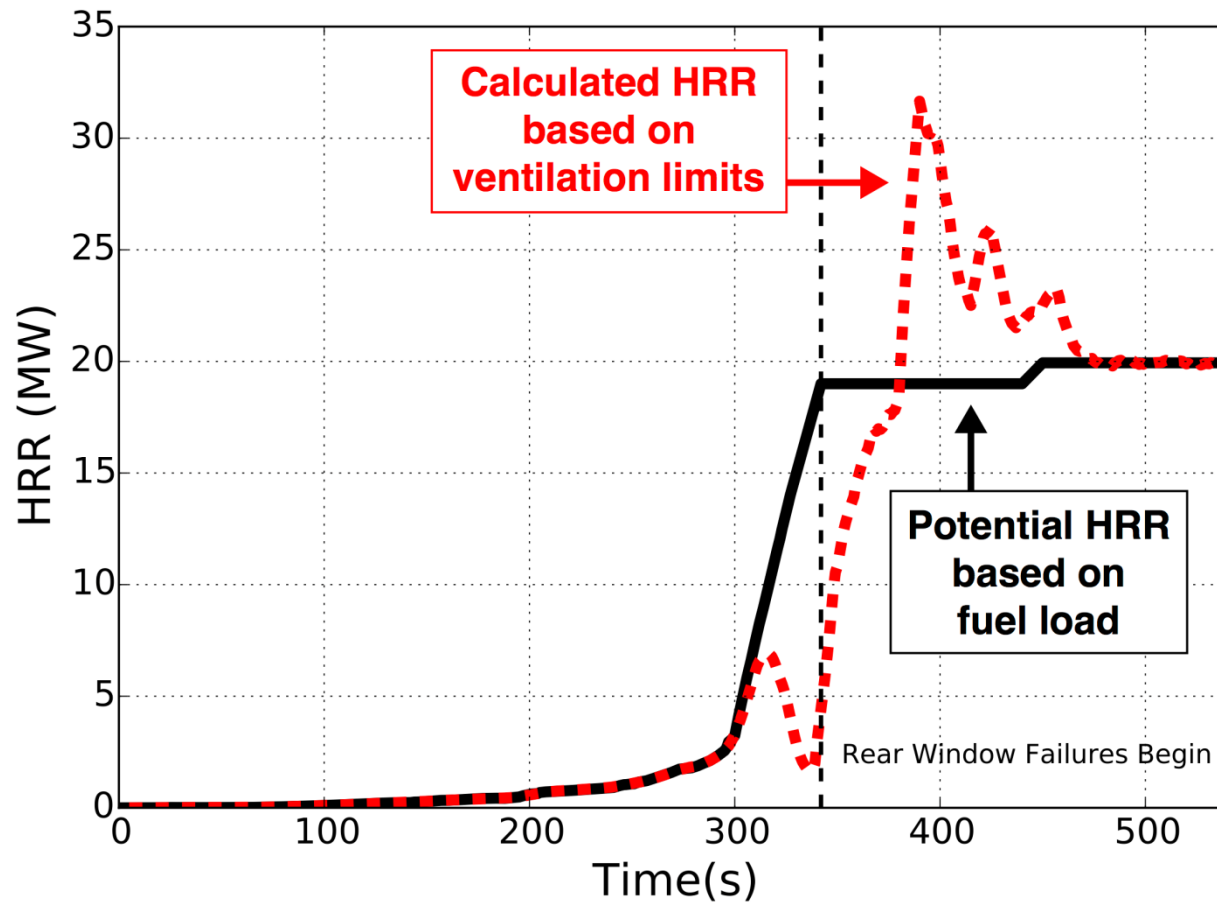


# Street Level

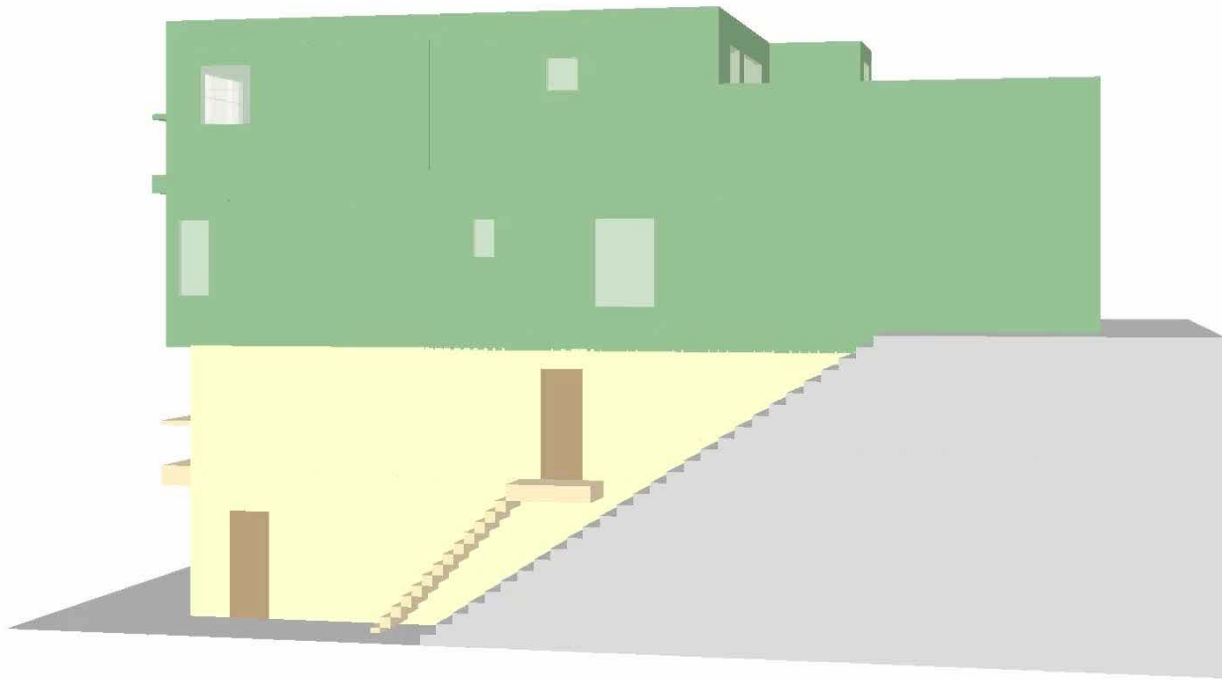




# Ventilation Controlled Fire

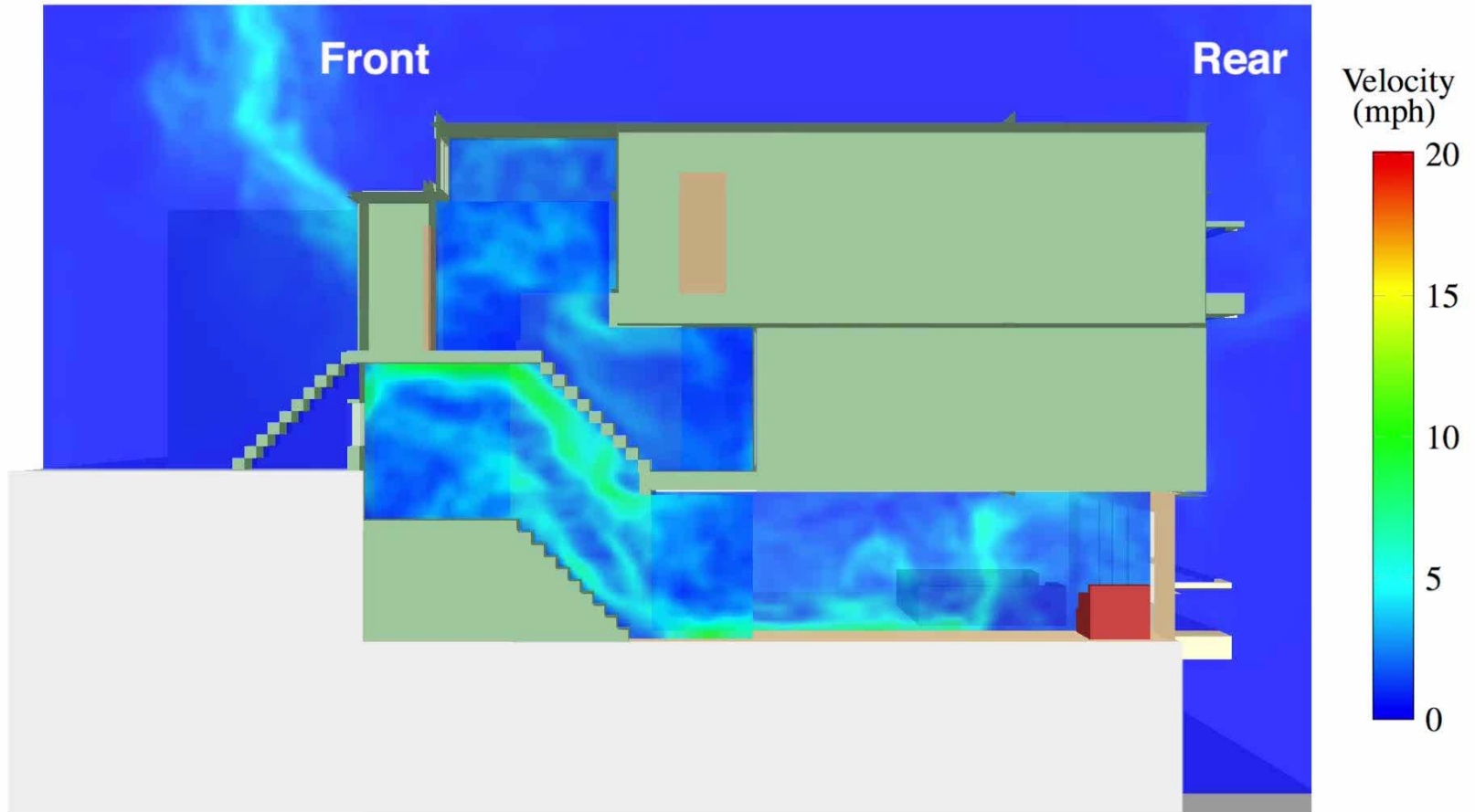


# FDS/Smokeview





# Flow Path - Velocity



# Flow Path - Temperature

