



FIREWOOD

# IMPROVED **FIRE** DESIGN OF **ENGINEERED** **WOOD** SYSTEMS IN BUILDINGS

<https://risefr.com/services/research-and-assessments/firewood>



# Background

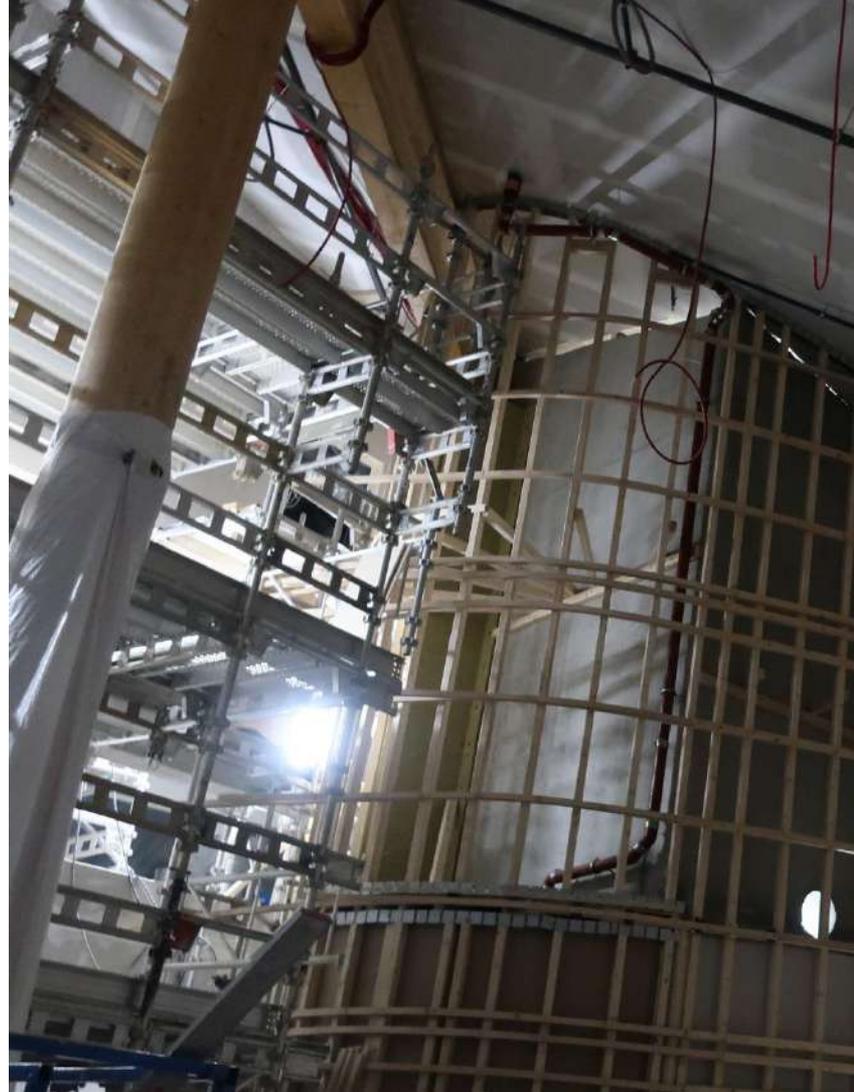
- Development towards:
  - Environmentally friendly building materials
  - Taller and larger buildings
- New fire risks need to be addressed to support development and use of innovative wood systems in construction

**The main goal in FIREWOOD is to ensure fire safe use of innovative, engineered wood systems in taller and larger buildings.**



# Engineered wood systems and fire safety

- Addressing causes for technical and societal concerns related to fire safety.
- Strategies to reduce barriers for innovation, design and use.



# Aim

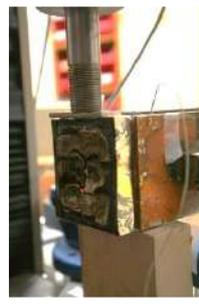
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- Fill knowledge gaps related to the fire technical properties of engineered wood construction elements at elevated temperatures and in fire conditions
  - Develop methods
    - Design models
    - Classification method
  - Disseminate/communicate/exploit
    - Adoption of relevant and economic procedures/guidelines/regulations
    - Public acceptance

Smoother fire design of engineered wood systems for extended application areas, and thus a greater market potential

# Experimental validation

- Fire performance of engineered wood systems
- Comprehensive test program, different scales of testing
  - Fire development
  - Fire properties
  - Mechanical properties at elevated temperatures
- Validation of design models



# Partners

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# Project updates

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Website:

<https://rise.fr.com/services/research-and-assessments/firewood>

ResearchGate

<https://www.researchgate.net/project/FIREWOOD-Improved-fire-design-of-engineered-wood-systems-in-buildings>