

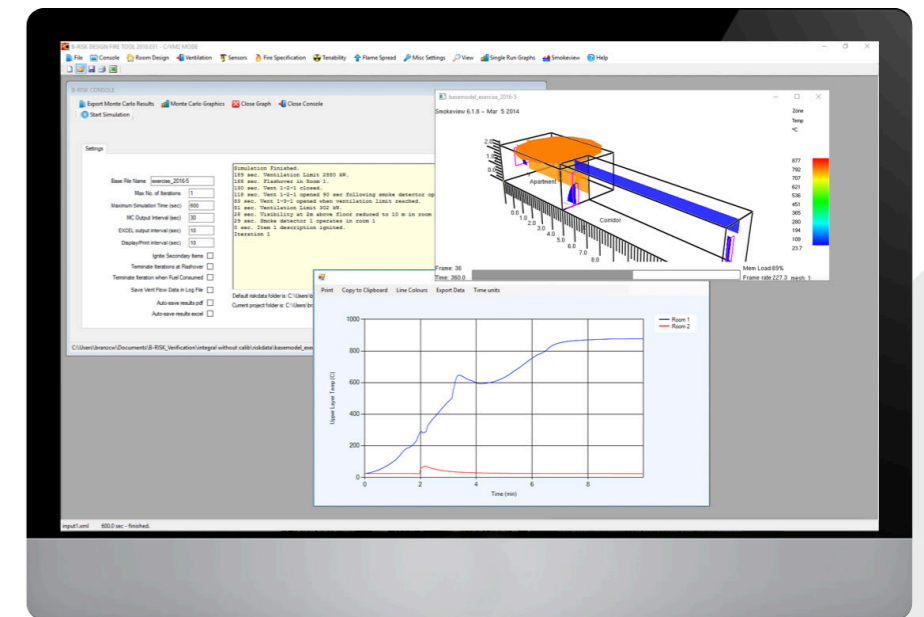


# Fire design simulation tool helps reduce fire risks in building design and material use so people can safely escape a building fire

- BRANZ teamed up with the University of Canterbury to create a fire design modelling tool, B-RISK, to help designers evaluate the conditions that people might be faced with when escaping a building fire.
- B-RISK is the 'go-to' fire risk modelling platform, with 95% of New Zealand's fire engineering consultancies using the tool as part of their building design and modelling processes. It is estimated to be used in more than 200 commercial or multi-unit residential projects each year where fire engineers undertake performance-based design (instead of using Acceptable Solutions).
- The B-RISK platform allows fire engineers to simulate fire and smoke spread in a building from their desk. It allows for a consistent approach for simulating building fires. The model provides robust evidence on the risks associated with potential fires occurring in buildings. It also demonstrates how they can be mitigated by the inclusion of fire safety design features in the building, such as fire sprinklers or mechanical smoke extraction systems.



## Helps demonstrate a fire design is Building Code compliant.



**B-RISK takes into account the reliability and effectiveness of:**



detectors



sprinklers

**Helping engineers make better, safer buildings.**



used by **95%** of NZ's fire engineering consultancies

more than **200** projects are using the tool each year

**Collaborators:**

