

Testing

Testing has already been completed with exceptional results

There was a combined effort with the Samsonvale Rural Fire Brigade and Queensland University of Technology (QUT) to ensure both accurate and independent data collection and of course, safety.



What we have done

- ✓ Constructed a complete full-sized fire shelter (we do not believe you can say people can survive simply by testing a wall, which is all the Australian Standards test requires).
- ✓ Tested to over 1000°C with steady internal temperatures.
- ✓ Invented a heat and fireproof door for the shelter.
- ✓ Installed a small window (3 cm) to be used to check if the fire has passed and to avoid the spread of panic in the room.
- ✓ Tested the Safety Shelter in real life with a simulated bushfire around the shelter, which was conducted by the Samsonvale Rural Fire Brigade, and measurements were recorded by an independent third party, Queensland University of Technology (QUT).

What we know

We know on average a bushfire lasts for approximately 15 minutes and reaches temperatures of between 250°C and 450°C. Firestorms reach above 1000°C for approximately 5 minutes and often travel at speeds between 120km/h and 140km/h

Far exceeds Australian Standards

Finance partners



Contact Us:

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SAFETY SHELTER

Tested to over 1000°

The Safety Shelter

Designed with help from an RPEQ certified engineer, the safety shelter can withstand up to a category three cyclone and remain safe during dangerous firestorms.

This is why we built a strong steel frame under the heat and fireproof cladding. The design and construction allows customers to customise their Safety Shelter to suit individual needs. The smallest building kit is 3.2m(L) x 2.7m(W) x 2.7m(H). As many additional sections (1.6m(L)x2.7m(H)) as required can easily be purchased for expansion.

All construction, including extensions, can be built without professional help, although once constructed approval is required from a certified professional. The construction drawings have been approved by an RPEQ certified engineer for compliance with Queensland's high safety standards.

The shelter is designed to be constructed free standing, away from other buildings, where you go to in the event of an approaching bushfire.



“100% designed and made in Australia.”

“The ONLY heat proof door in the world.”



The Safety Shelter is constructed with the following specifications:

- ✓ Building blocks made of volcanic stone to provide high temperature insulation
- ✓ Custom designed steel frame
- ✓ Dual layer foundations to insulate against rising heat
- ✓ Double roof layer structure to withstand falling debris
- ✓ Custom designed steel door that is the first on the market to be both heat AND fireproof
- ✓ Peak-hole made with glass used in atomic reactors to withstand temperatures of over 1600°C
- ✓ Breathable air tanks with masks (not supplied)
- ✓ Wheelchair accessible (optional)



The Safety Shelter Kit includes:

- ✓ A steel frame
- ✓ Building blocks
- ✓ A peak-hole (comes with 1, more can be purchased)
- ✓ Materials for the door
- ✓ Roof panels

Not included:

- ✗ Labour for construction
- ✗ Breathable air tanks and masks



Pumice is a natural material sourced from the Hekla Volcano in Iceland.



Pumice is an excellent insulator, keeping flue gases warm while not transmitting heat to the outside.

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Peak-hole is made from atomic reactor glass used in nuclear reactors to withstand temperatures of over 1600°C

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