

**Product name:**

# FireWool™

**Product Line:**

Passive Fire

**Product description and its intended use:**

FireWool™ ceramic fibre blanket for applications requiring thermal management and passive fire protection.

The ceramic fibres are known for their ability to withstand high temperatures. The wool can resist direct exposure to flames and intense heat.

FireWool™ is flexible and can be easily draped over objects or wrapped around an object to provide a protective barrier.

FireWool™ does not burn, adding an extra layer of safety during firefighting or emergency situations.

FireWool™ is compact and lightweight, making it easy to store and transport.

FireWool™ is typically used for fire-stopping to the roofline and end wall connections of central barrier intertenancy walling systems.

- Low thermal conductivity
- Good heat and chemical stability
- Thermal shock resistance
- Tensile strength
- Good thermal insulation
- Noise reduction
- Fireproof
- Easy installation

**Product identifier:**

The product name with the production date is printed on the finished bucket.

**Place of Manufacture:**

China

**Legal and Trading Information:**

Legal and trading name of  
the importer(s):

Rockcote Resene Limited T/A Resene Construction Systems

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Address of the Manufacturer: 32-50 Vogel Street, Naenae, Lower Hutt  
Website Address: <https://reseneconstruction.co.nz>  
Email Address: [help@reseneconstruction.co.nz](mailto:help@reseneconstruction.co.nz)  
Phone Number: [0800 507040](tel:0800507040)  
NZBN: 9429034745786

This product is not subject to a warning or ban under s26 of the Building Act.

**Relevant Building Code clauses:**

- Clause B2 - Durability - Performance B2.3.1 (a) 50 years and B2.3.2
- Clause C3 - Durability - Performance C3.7
- Clause F2 - Hazardous Building Materials - Performance F2.3.1

**How the building product is expected to contribute to compliance:**

This product is used and has been tested as part of a wider system.

B2 - When installed in accordance with the system specifications and drawings, it will meet this performance requirement. Based on material properties and history of use, this product has been assessed to have a durability of at least 15 years when installed as part of a system. This product must be installed in accordance with the relevant specifications outlined in the design section of this document.

C3 - When installed in accordance with the system specifications and drawings, it will meet this performance requirement. Based on material properties and history of use, this product has been assessed so that there is a low probability of fire spread to other properties vertically or horizontally across a relevant boundary. This product must be installed in accordance with the relevant specifications outlined in the design section of this document.

F2 - This product is safe when handled in accordance with its Technical and Safety DataSheet. Dust resulting from sanding and mixing compounds may be a respiratory irritant, and the use of suitable respiratory protection is required. This product meets the requirements set out in F2 and will not present a health hazard to people once installed.

**Limitations on the use of the building product:**

Resene Construction Systems recommends that this product be applied by a licensed tradesperson who has extensive experience in applying these products for similar applications to your particular project. The success of each project requires the tradesperson to have a thorough technical knowledge of appropriate building design, substrate conditions and client expectations to determine if this product fits the purpose expected for your project.

It should be noted that Resene Construction Systems products do not satisfy code requirements on their own but deliver code-compliant performance when used as part of a Resene Construction System's system and installed in accordance with the specific specifications.

The material must remain dry, or if it gets wet, allow it to dry before installing it in an enclosed space.

This product is suitable to install in a wet cavity (brick veneer). If it gets wet, it will retain its fire resistance performance but lose its thermal insulation.

Install immediately before wall and roofing installation.

**Design requirements that would support the use of the building product:**

Specific applications, design and installation instructions are available for each system on our website. This outlines where this product should be installed as part of the wider system.

Thickness:	25mm	50mm
Length:	7.2 Lm	3.6 Lm
Width:	100mm	
Classified temperature:	1260°C	
Working temperature:	1050°C	
Colour:	White	
Density:	128 kg / m <sup>3</sup>	
Linear shrinkage:	-3% 24 hrs at 1000°C	
Thermal Conductivity:	0.09 W/mK (400°C), 0.16 W/mK (800°C)	
Chemical Composition:		
Al <sub>2</sub> O <sub>3</sub>	46%	
Al <sub>2</sub> O <sub>3</sub> + SiO <sub>2</sub>	97%	
FE <sub>2</sub> O <sub>3</sub>	< 1.0	
Na <sub>2</sub> O + K <sub>2</sub> O	< 0.5	
Testing:	CSIRO Fire Laboratory, Melbourne, Australia.	
	Non-combustible according to Clause 3.4 of AS 1530.1-1994.	

**Installation requirements:**

Prepare the Area:

Ensure the area where you're installing firewool is clean, dry, and debris-free. If there are gaps, cracks, or holes, consider sealing them before installing the insulation.

Measure and Cut:

Measure the space where the insulation will go, and cut the firewool to fit using a utility knife or scissors. Follow the manufacturer's recommendations for cutting the material.

Wear Protective Gear:

Put on protective gear, including gloves, safety glasses, and a mask, to protect yourself from any potential irritation or airborne particles during the installation.

Install the Firewool:

Place the cut pieces of firewool into the designated areas, ensuring a snug fit. The goal is to cover and fill the spaces to provide fire resistance effectively.

Secure if Necessary:

it may need to be secured in place. Look at tacking in place with clouts.

Seal Joints and Gaps:

If there are joints or gaps between pieces of firewool, use the appropriate sealing material

recommended by the manufacturer to ensure a continuous barrier.

Consult with Professionals if Needed:

If you are unsure about any aspect of the installation or if the project involves more complex structures, consider consulting with professionals or contractors experienced in fire-resistant insulation installations.

**Maintenance, Environmental and Safety Requirements:**

Ensure that any excess product is disposed of at the appropriate Refuse Stations.

The ceramic blanket fibres are an irritant, and appropriate PPE must be worn at all times when handling. Protect all exposed skin.

**PPE** - Gloves, goggles, mask, disposable arm wraps.

Material Safety Data Sheets are available upon request or access directly from

<https://reseneconstruction.co.nz/technical-library/safety-data-sheets/>