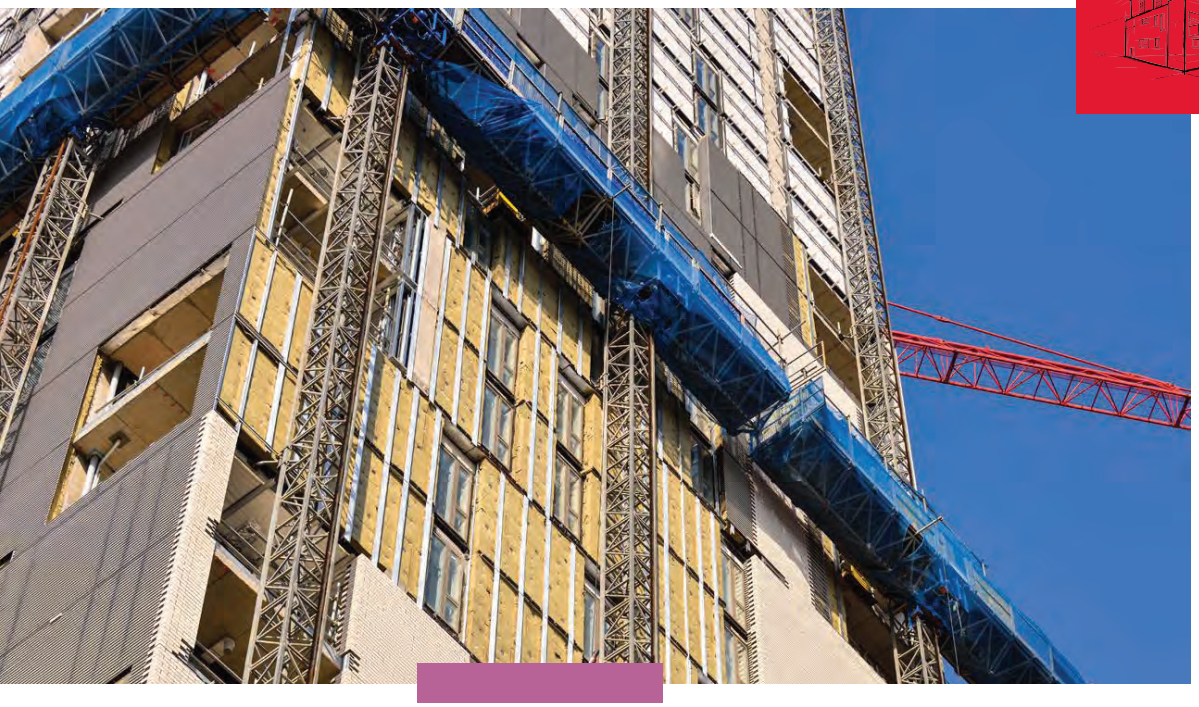
Technical Data Sheet
Ventilated Facade Insulation
1st October 2024



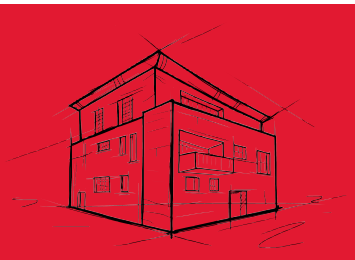
ROCKWOOL Rainscreen

Non-combustible insulation for Ventilated facades

ROCKWOOL Rainscreen is a stone wool insulation developed specifically for use within ventilated cladding systems.

ROCKWOOL Rainscreen is non-combustible – it does not develop toxic smoke nor promote flame spread, even when directly exposed to fire. It also contributes to a building's energy efficiency with its reliable thermal performance. It is moisture repellent, allowing the structure to maintain breathability and dryness. The superior performances of ROCKWOOL Rainscreen ensure that its insulation value can be maintained for a long time.

Compatible with numerous cladding attachment systems, the product can be easily fitted around brackets and other awkward details. When tightly butted, adjacent slabs effectively 'knit' together to provide a continuous insulating layer, reducing heat loss that would otherwise be caused by gaps.



Fire Performance

The non-combustible characteristics of ROCKWOOL Rainscreen insulation means that it will not develop toxic smoke or promote flame spread even when directly exposed to fire.

For more information at www.rockwool.com/anz

ROCKWOOL Rainscreen

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Technical Parameters

Product Name	ROCKWOOL Rainscreen SL950	ROCKWOOL Rainscreen SL960	Test Standard
Reaction to Fire	Non-combustible Euroclass A1	Non-combustible Euroclass A1	AS 1530.1 EN 13501-1
Fire Hazard Properties	Ignitibility: 0 Spread of flame: 0 Heat evolved: 0 Smoke developed: 0-1	Ignitibility: 0 Spread of flame: 0 Heat evolved: 0 Smoke developed: 0-1	AS 1530.3
Melting Point	1000°C	1000°C	ASTM E794
Thermal Conductivity at mean 23°C	0.035 W/mK	0.034 W/mK	ASTM C518
Water Absorption (partial immersion)	0.5 kg/m²	0.5 kg/m²	BS EN ISO 29767
Water Vapor Absorption	Less than 0.04 Vol %	Less than 0.04 Vol %	ASTM C1104/ 1104M
Water Repellent	99 %	99 %	GB/T 10299

Application

ROCKWOOL Rainscreen is suitable for use on the following construction types:

- Steel frame, timber frame or masonry walls in conjunction with a cladding system
- Steel frame or timber frame with a masonry outer leaf

Compliance with the Australia NCC

The above range of ROCKWOOL products, when properly specified and installed, demonstrates the following compliance:

- **Thermal**
  Complies with AS/NZS 4859.1 and meets the requirements of NCC through adherence to NCC 2022 Volume 1 Section J4D3 (1), NCC 2019 Volume 1 Section J1.2(a), NCC 2019 Volume 2 Section 3.12.1.1(a) and state-prescribed variations.

- **Fire Hazard Properties**
  Adheres to NCC 2019 Volume 1 Specification C1.10 Clause 7 and NCC 2022 Specification 7 Clause S7C7 for insulation materials. When tested to AS1530.3, these products conforms to the "Spread of Flame" and "Smoke Developed" requirements outlined in NCC 2022 Specification 7 Clause S7C7 and NCC 2019 Volume 1 Specification C1.10 Clause 7.

- **Non-Combustibility**
  Complies with the non-combustibility standards of NCC 2022 Volume 1 C2D2 and NCC 2019 Volume 1 C1.9(a) or satisfies the testing criteria outlined in AS 1530.1.

Facings

ROCKWOOL Rainscreen series is available as plain products and additionally with options of foil facing or glass tissue on one side or two-sided.

Packaging and Storage

ROCKWOOL Rainscreen is shrink-wrapped in polyethylene sheets for ease of handling, transportation and storage. Products should be stored in doors or under waterproof covering.

Health & Safety

ROCKWOOL stone wool products are manufactured from FBS-1 stone wool. FBS-1 stone wool is safe to use and the fibre component of these products is listed by Safe Work Australia as Man-made Vitreous Fibre (stone wool) of low bio persistence as specified under Note Q in the Australian Hazardous Substances Information System and in the Australian Approved Criteria.

ROCKWOOL Rainscreen

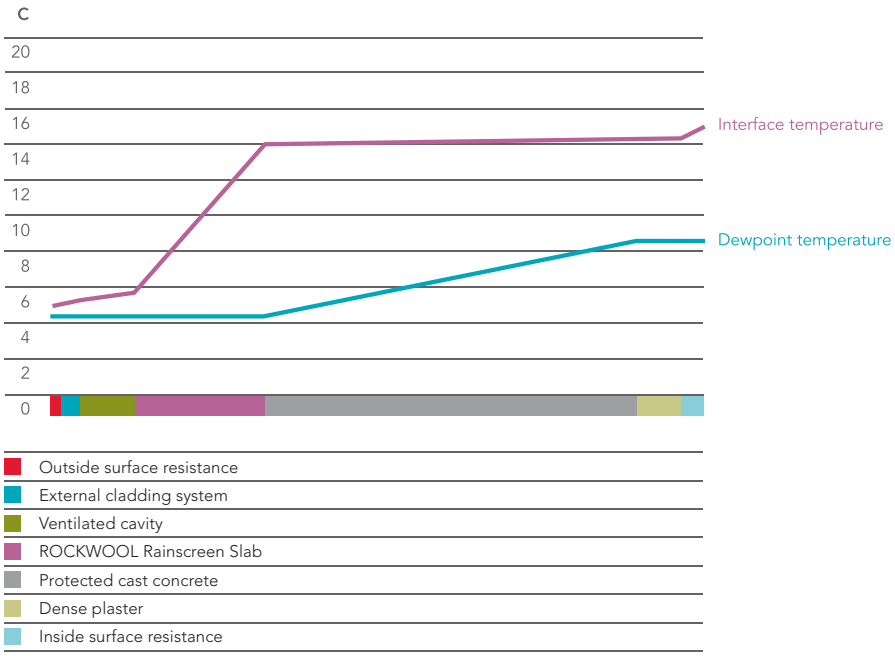
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Water resistance

ROCKWOOL stone wool insulation repels liquid water due to its fibre orientation and the presence of water-repellent additives.

Condensation control

The vapour resistivity of ROCKWOOL stone wool is 5.9MNs/gm. The slabs therefore reduce the risk of condensation, allowing natural drying-out of the structure. See typical relative humidity / temperature graph below.



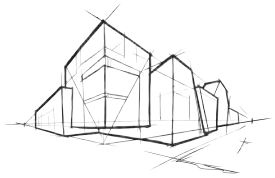
Product specification

ROCKWOOL Rainscreen SL950

R-Value m²K/W	Thickness (mm)	Width (mm)	Length (mm)	# Pieces per pack	Area per pack (m²)
0.70	25	600	1200	12	8.64
0.85	30	600	1200	10	7.20
1.10	38	600	1200	8	4.32
1.45	50	600	1200	6	4.32
2.15	75	600	1200	4	2.88
2.55	90	600	1200	3	2.16
2.85	100	600	1200	3	2.16
3.55	125	600	1200	2	1.44

ROCKWOOL Rainscreen SL960

R-Value m²K/W	Thickness (mm)	Width (mm)	Length (mm)	# Pieces per pack	Area per pack (m²)
0.75	25	600	1200	12	8.64
0.90	30	600	1200	10	7.20
1.10	38	600	1200	8	4.32
1.45	50	600	1200	6	4.32
2.20	75	600	1200	4	2.88
2.65	90	600	1200	3	2.16
2.95	100	600	1200	3	2.16
3.70	125	600	1200	2	1.44



ROCKWOOL Rainscreen

Installation

Work on site

ROCKWOOL Rainscreen is supplied in shrink-wrapped polythene packs. The product can be easily cut and shaped using a sharp knife.

Fixings

A suggested fixing pattern is provided; however the adequacy of this or any other fixing pattern should be verified on a per-project basis through assessment by a suitably qualified individual.

The following non-exhaustive list of companies can supply fixings suitable for use with ROCKWOOL Rainscreen: Ejot, Fixfast, Fischer, ITW Construction Products, Hilti.

Exposure

It is recommended that the sequence of construction is programmed in such way that insulation is left exposed for as little time as possible.

While ROCKWOOL insulation is impregnated with a water repelling agent, and is resistant to wind and rain, it is not designed to offer indefinite protection to a substructure. Depending on the nature of the substrate, a protective membrane may be required. Such design issues will require assessment by a suitably qualified individual.

Subjecting ROCKWOOL Rainscreen to any level of exposure is contingent on a visual inspection of the insulation prior to the installation of the cladding. In the unlikely event that any slabs have become physically damaged or otherwise contaminated, they should be replaced.

Once the weatherproof layer is installed, the resulting ventilated cavity will ensure that any wetted slabs will naturally dry out, regaining all of their original performance and properties.

ROCKWOOL Rainscreen

Steel frame, timber frame or masonry wall cladding systems:

- The ROCKWOOL insulation slabs should be close-butted at all vertical and horizontal joints. The horizontal joints of the insulation should be staggered in accordance with good practice.
- Fixings should have a minimum head diameter of 70mm. A typical fixing pattern has three fixings per square metre with one metal fixing at the centre of every slab (see Figure 1).
- The ROCKWOOL insulation slabs should be cut and tightly fitted around cladding support elements.
- For a typical installation, a breathable membrane is placed between the sheathing board and the product. A vapour control layer is placed between the plasterboard and the frame (when required).

Steel frame or timber frame with a brick outer leaf:

- The ROCKWOOL insulation slabs should be close-butted at all vertical and horizontal joints, and at corners. The horizontal joints of the insulation of the slabs should be staggered, in accordance with good practice.
- The ROCKWOOL insulation slabs should be carefully cut to fit around any protrusions into the cavity.
- A vapour control layer is placed between the plasterboard and the frame (when required). A breathable membrane is placed between the sheathing board and the product.
- The ROCKWOOL insulation slabs should be installed to coincide with the frame, with retaining discs used in conjunction with the wall ties at no more than 600mm horizontally and 450mm vertically.
- After each section of the leading leaf is built, excess mortar should be removed from the cavity face and mortar droppings cleaned from exposed edges of the installed board, before installation of the next run of boards. Use of a cavity board or a cavity batten will protect the installed board edges and help to keep the cavity clean as the following leaf is built.

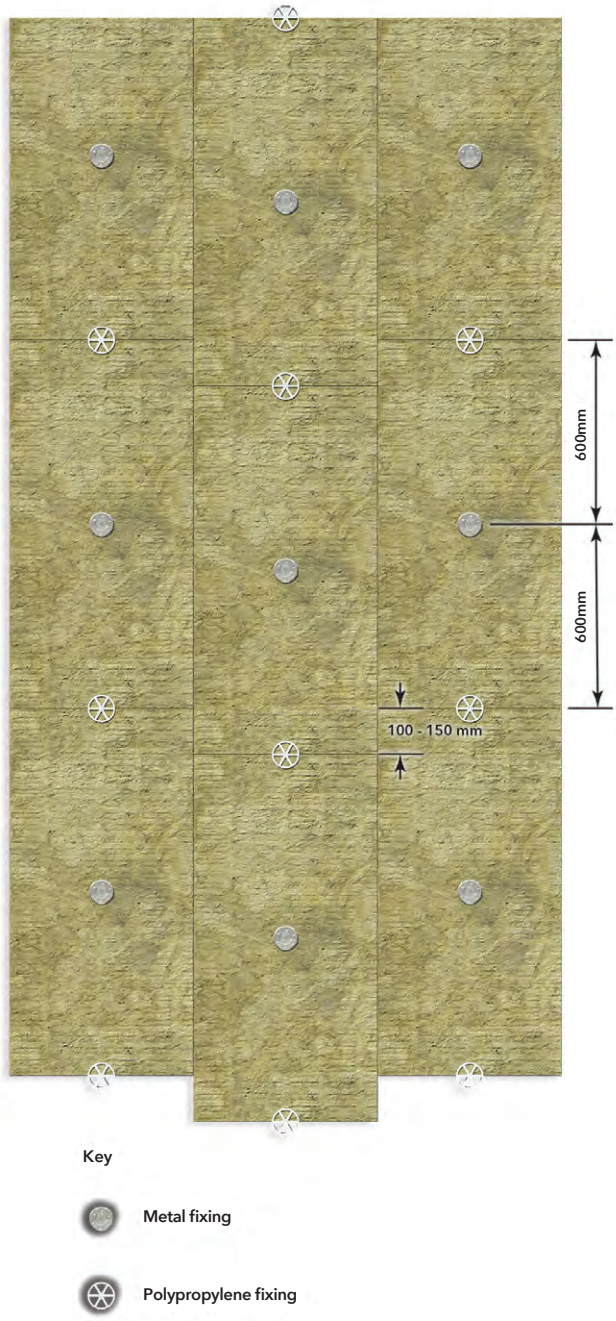


Figure 1: Typical fixing pattern with 3 fixings per square metre

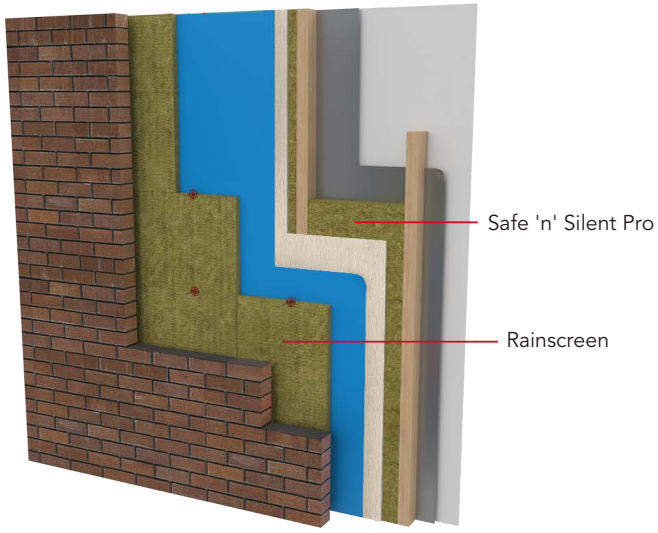
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For use on steel frame or timber frame with a brick outer leaf.

- The slabs should be close-butted at all vertical and horizontal joints, and at corners. The horizontal joints of the slabs should be staggered, in accordance with good practice.
- Slabs should be carefully cut to fit around any protrusions into the cavity.
- Whenever required, a vapour control layer (VCL) is placed between the plasterboard and the frame. A breathable membrane is placed between the sheathing board and the product—see Figure 2.
- The insulation should be installed to coincide with the frame, with retaining discs used in conjunction with the wall ties at no more than 600 mm horizontally and 450 mm vertically.
- After each section of the leading leaf is built, excess mortar should be removed from the cavity face and mortar droppings cleaned from exposed edges of the installed board, before installation of the next run of boards. Use of a cavity board or a cavity batten will protect the installed board edges and help to keep the cavity clean as the following leaf is built.

Timber Frame Wall



Steel Frame Wall

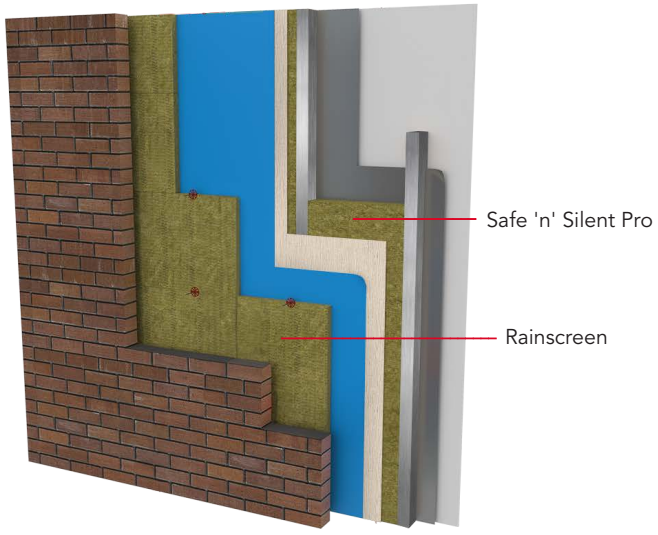


Figure 2

Disclaimer: The information contained in this data sheet is only applicable for Australia and is believed to be correct at the date of publication and is subject to change after the date of printing. This data sheet was designed for general information purpose only. It's contents should not be construed as representing all performance for these insulation materials. You should not act or reply on any of the information contained herein without seeking professional advice. We make no representations as to accuracy, completeness, correctness, suitability or validity of any information in this document and will not be liable for any errors, omissions, or delays in this information or any losses, injuries or damages arising from it use. All information is provided on a as-is basis.

ROCKWOOL Australia Pty Ltd
Level 12, 90 Arthur Street,
North Sydney, NSW 2060, Australia.
info.anz@rockwool.com

ROCKWOOL Malaysia Sdn Bhd
Lot 4, Solok Waja 1, Bukit Raja Industrial Park, 41050 Klang, Selangor, Malaysia.
T (+60) 3 3346 8200
info.my@rockwool.com

For more information at www.rockwool.com/anz

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