

MINERAL PLUS RAINSCREEN INSULATION

August 2020



APPLICATIONS



DESCRIPTION

Mineral Plus is a high density silicone treated glasswool with a black textile facing, suitable for the external insulation of buildings. Mineral Plus is a non-combustible, moisture resistant, vapour permeable insulation that combines a high thermal performance with exceptional acoustic properties.

Mineral Plus comes in conveniently sized slabs making it quick and safe to install. The product is made using up to 80% recycled glass and with ECOSE® Technology, a revolutionary bio-based binder that contains no added formaldehyde, meeting the highest environmental requirements.

Suitability of Use

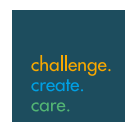
In accordance with C/AS2, 1st edition 2019, Mineral Plus is suitable as a substantive component in external wall cladding systems. Mineral Plus comprises a surface finish fabric applied directly to a non-combustible substrate in accordance with C/AS2 Part 5.8.2.a.

With a robust woven glass textile and silicone treatment, Mineral Plus is designed to withstand intermediate weathering from moisture.

BENEFITS

- ✓ High thermal performance
- ✓ Sound absorbing
- ✓ Fire protection
- ✓ Slab format - easy to install
- ✓ Silicone treated - water resistant
- ✓ High tear resistance fabric

CERTIFICATION



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DIMENSIONS AND THERMAL RESISTANCE

Thermal resistance (m ² K/W at 15°C)	Thickness (mm)	Width (mm)	Length (mm)
1.5	50	600	1200
2.3	75	600	1200

TECHNICAL DATA*

	Symbol	Result	Unit of measure	Standard
Thermal conductivity	λD	0.033	W/mK	AS/NZS 4859.1
Reaction to fire	-	Fire hazard properties: 0, 0, 0, 2. Non-combustible Euroclass A1	-	Fire hazard properties: AS/NZS 1530.3 AS 1530.1 EN 13 501-1
Short term water absorption	WS	< 1	kg / m ²	EN 1609
Long term water absorption	WV(P)	< 3	kg / m ²	EN 12087
Air-flow resistivity	AFr	< 5	kPa·s / m ²	EN 29053
Water vapour transmission rate	μ	1	-	EN 12086

*The technical data refers to the insulation material and does not include the facing

FIXINGS

For fixing details refer to the rainscreen brochure.

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ENVIRONMENTAL DATA



Environmental Product Declarations (EPD)

Mineral Plus insulation supports environmental claims with market leading Environmental Product Declarations (EPDs). The EPDs supporting Mineral Plus insulation are one of the most comprehensive evaluations of any insulation product in New Zealand. The five separate, independently certified EPDs provide clarity and transparency about the life-cycle and environmental impact, a declaration making Knauf Insulation market leaders in product declaration.



ODP and GWP

Mineral Plus has zero Ozone Depletion Potential (ODP) and low Global Warming Potential (GWP).



ISO 14001

Knauf Insulation manufacturing facilities are certified with ISO 14001, a standard which outlines a process for the control and the continuous improvement of an organisation's environmental performance.



Eurofins Gold Certification

Mineral Plus insulation is supported by Eurofins Indoor Air Comfort Gold as an "outstanding material" according to VOC and Indoor Air Quality Emissions certification.

The ECOSE® Technology that is used to manufacture our products replaces the phenol formaldehyde that is used by other New Zealand manufacturers. Phenol formaldehyde is a known carcinogen and even low levels are considered unacceptable by leading air quality certification organisations. This places Mineral Plus insulation in a unique position and makes it impossible for our competitors to currently match this level of certification.



BES 6001

Knauf Insulation products are made from responsibly sourced materials as certified by an independent, third-party certification scheme.



ISO 50001

Knauf Insulation manufacturing facilities are certified to low energy manufacturing processes.



Glasswool products made with ECOSE® Technology benefit from a no added formaldehyde binder, which is less energy intensive than traditional binders and is based on rapidly renewable, bio-based materials instead of petro-based chemicals. The technology has been developed for Knauf Insulation's glass and rock mineral wool products, enhancing their environmental credentials without affecting the thermal, acoustic or fire performance. Glasswool products made with ECOSE® Technology contain no added dyes or artificial colours.

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challenge.
create.
care.