

## SMART FACADE INSULATION

January 2026

### Applications



### Description

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

Smart Facade 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 plant-based binder that contains no added formaldehyde, meeting the highest environmental requirements.



### Suitability of Use

In accordance with C/AS2, Amend 2 (Nov 2020), Smart Facade classifies as A1 non-combustible material in accordance with BS EN 13501-1.

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

Smart Facade's thermal performance is resistant to UV radiation over the lifetime of the building. It is possible the product may change colour / fade however it will maintain its thermal properties.

### Performance

	Symbol	Result	Unit of measure	Standard
Thermal conductivity	$\lambda_D$	0.032	W/mK	AS/NZS 4859.1
Reaction to fire	-	Euroclass A1	Non-combustible	EN 13 501-1
Short term water absorption	WS	<1	kg/m <sup>2</sup>	EN 1609
Long term water absorption	WL(P)	< 3	kg/m <sup>2</sup>	EN 12087
Microbial growth	-	Does not support microbial growth.	-	-
Corrosion resistance	-	No greater than sterile cotton.	-	-

Smart Facade slab thickness (mm)	NRC at Various Frequencies (Hz)						NRC	SAA	Standard
	125	250	500	1000	2000	4000			
50	0.20	0.65	1.00	1.00	1.00	1.00	0.95	1.01	ASTM C423
75	0.35	0.85	0.95	1.00	1.00	1.00	0.95	1.00	ASTM C423
100	0.55	0.85	0.95	1.00	1.00	1.00	0.95	1.02	ASTM C423

### Certifications



Please scan the QR Code to view the complete list of certifications on our website.

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### Benefits

- ✓ DriTherm® Technology - silicone treated glasswool for increased durability
- ✓ TwinTech® - smooth finish on both sides
- ✓ ECOSE® Technology - no added formaldehyde
- ✓ Odourless
- ✓ Superior handling
  - Consistent quality materials, cuts easily and installs fast
  - Highly resilient insulation recovers quickly to full thickness

### Specifications

Product code	R-value (m <sup>2</sup> K/W)	Thermal Conductivity (W/mK)	Thickness (mm)	Width (mm)	Length (mm)	Coverage per pack (m <sup>2</sup> )	Pieces per pack	Packs per MasterBag	Facing	Water Repellency
811740	1.6	0.032	50	600	1200	7.92	11	5	Woven Glass Veil	Yes
811738	2.3	0.033	75	600	1200	5.04	7	5	Woven Glass Veil	Yes
811584	3.1	0.033	100	600	1200	4.32	6	5	Woven Glass Veil	Yes

### Fixings

For fixing details refer to the **Smart Facade Installation Guide**.

### Additional Information

#### Specification Guide

The Smart Facade insulation shall be Knauf Insulation glasswool insulation R\*, \*mm thick, faced with a black woven veil. The product will be non-combustible, Global GreenTag Level A certified, glasswool insulation with high post-consumer recycled glass content and with ECOSE® Technology. It will be manufactured under Quality Assurance Standards ISO 9001:2008 and ISO 14001:2004 by Knauf Insulation and shall be installed in accordance with the instructions issued by them.

#### Specification Compliance

AS/NZS 4859.1: 2018 Materials used in the Thermal Insulation of Buildings and comply with the New Zealand Building Code requirements: B2 – Durability, E3 – External Moisture, F2 – Hazardous Building Materials, and H1 – Energy Efficiency. Knauf Insulation Smart Facade is an acceptable solution in terms of the New Zealand Building Code. This product is designed for use in ventilated facade systems in new and existing multi-level domestic and commercial buildings.

#### Bio-solubility

The formulation used for Knauf Insulation glasswool insulation has been independently assessed to meet the requirements of the stringent Note Q standard (and is therefore consistent with the highest Australian and New Zealand industry standards), and also assessed by Knauf Insulation against NZ Work-Safe requirements. Knauf Insulation glasswool is classified as a non-hazardous substance in line with the NOHSC: 1008 3rd Edition.

#### Environmental

Knauf Insulation Smart Facade represents no known threat to the environment and comes with GreenTag Level A certification, Declare label and a certified Environmental Product Declaration. Knauf Insulation glasswool has low VOC and benefits from ECOSE® Technology.

#### Proven Performance

- Black woven veil for improved thermal performance.
- Knauf Insulation glasswool insulation is preferred by professional installers concerned with quality, appearance and productivity.

- Knauf Insulation glasswool insulation has excellent acoustical properties to reduce sound transmission.

#### Durability

- Knauf Insulation glasswool insulation is odourless, rot proof, non-hygroscopic, does not sustain vermin and will not encourage the growth of fungi, mould or bacteria.
- DriTherm® Technology – silicone treated glasswool for increased durability.

#### Superior Handling

- Highly resilient insulation recovers quickly to full thickness for a snug fit and superior finished aesthetics.
- Consistent quality materials feel good, cut easily and install fast.
- Low dust for easier handling and increased productivity.

#### Convenient Packaging, Easier Handling

- Knauf Insulation Smart Facade is packaged in a strong, white film that offers excellent protection from abuse, dust and moisture.
- MasterBag insulation units (containing multiple packs) ensure reduced handling costs with improved compression – more square metres per bag, more square metres per truck load, fewer trips to the job site and less warehouse space for storage.

#### Superior Service and Support

- Knauf Insulation is totally focused on providing first class customer service, producing high quality product and 'on time in full' deliveries.
- Knauf Insulation supports a professional network of distributors and resellers in order to service a growing insulation market.
- Knauf Insulation is committed to providing a comprehensive range of relevant sales and marketing literature and web-based technical information to support specifiers and customers.

#### Corrosion Testing

Corrosion testing evaluates whether a material's chemical composition could cause corrosion. Knauf Insulation's glasswool products have been independently tested and demonstrate that they are non-corrosive ensuring reliable performance.



Knauf Insulation 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, plant-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. Knauf Insulation products made with ECOSE® Technology contain no added dyes or artificial colours.

#### Knauf Insulation Ltd

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