KNAUFINSULATION

Building Product Information Sheet - Class 1

Smart Facade by Knauf Insulation

Product description and its intended use:

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.

Products:

Product code	R-value (m²K/W)	Density (kg/m³)	Thickness (mm)	Width (mm)	Length (mm)	Coverage per pack (m²)	Pieces per pack	Packs per MasterBag	Facing	Water Repellency
729878	1.6	38	50	600	1200	6.48	9	4	Woven Glass Veil	Yes
729892	2.3	38	75	600	1200	4.32	6	4	Woven Glass Veil	Yes
729881	3.1	38	100	600	1200	3.60	5	4	Woven Glass Veil	Yes

Manufactured by:

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Building code compliance:

Clause B2 DURABILITY: Smart Facade insulation products will meet these requirements.

Smart Facade will continue to satisfy the performance of the Building Code throughout its specified intended life. Knauf Insulation's BRANZ Appraisal (648) states, 'Where the building is maintained so that provisions of the NZBC E2 and E3 Clauses are met, and where the insulation is not crushed or exposed to conditions that will diminish its thermal performance, (e.g. moisture), Knauf Glasswool Insulation can expect to have a serviceable life of at least 50 years'.

Clause C/AS2 protection from fire:

Smart Facade insulation products are not combustible building materials and will contribute to meeting this requirement. Smart Facade is classified as A1 in accordance with BS EN 13501-1.

H1 Energy Efficiency Building Code Compliance:

Smart Facade insulation products will contribute to meeting these requirements. Smart Facade offers a range of thicknesses, R-values and thermal conductivities that assist in meeting and exceeding the Building Code requirements.

Clauses E2 External and E3 Internal Moisture:

Smart Facade insulation products will contribute to meeting these requirements by: Not absorbing water, allowing for water dissipation when used in ventilated cavity and contributing to maintaining thermal resistance.

Limitations on the use of the building product:

The product has been designed an manufactured to contribute to meeting above building code clauses. Knauf Insulation is responsible for the manufacture and quality of the product as outlined in the data sheet. The designer is responsible for the building design and the installer is responsible for the installation of the product.

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

Click here to view all technical documents as listed below.

Smart Facade Installation Instructions
Smart Facade Brochure
Smart Facade Datasheet
Material Safety Datasheet

Installation requirements:

Ventilated facade systems comprise outer cladding panels that are bolted to a supporting framework of rails, which are supported by brackets fixed through a thermal break pad back to the building frame. A layer of insulation is fixed independently against the building substructure using proprietary insulation fasteners.

Smart Facade is recommended for this application, as it is lightweight but rigid enough to resist the compression forces generated when installing the insulation facade batts on the substrate. However without proper installation the thermal performance of the continuous insulation is comprised.

Installing continuous insulation is an effective way to achieve higher thermal performance in wall assemblies, and the use of continuous exterior insulation is common in commercial and residential construction due to more stringent building performance and energy code thermal performance requirements. The Knauf Insulation 'Smart Facade: Installation instructions for use in ventilated facades' guide provides detailed installation guidance which should be followed to ensure proper installation.

Maintenance requirements:

The Smart Facade product is used as a building component in the insulation and cladding of a building. The product has demonstrated it's compliance with the B2 Durability requirements as the product will not be accessed during it serviceable live. There are no ongoing service requirements for this product.

This product is not subject to warning or ban under section 26 of the Building Act 2004.

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