

Technical Data Sheet

ME050

FR Breather Membrane (ALU)

Class A2, W1 Façade Membrane

05-01-2024 / V 14

Description

ME050 FR Breather Membrane (ALU) is a reflective breather membrane which is A2-s1, d0 in accordance with EN 13501-1 and water resistant to Class W1 in accordance with EN 13859-2. The membrane is supplied with integrated adhesive strips at the top and bottom of the roll, which are used to seal horizontal overlap joints without the requirement for an additional seal tape.

FR Breather Membrane (ALU) ME050 meets the fire performance requirements for membranes installed on “relevant and higher risk” building types as defined in Approved Document B of the Building Regulations for England and Wales.

Used as a full façade breather membrane on new build and refurbishment projects, ME050 is highly breathable, UV resistant, water resistant, air/weathertight, easy to cut and install making it suitable for application within high rise buildings, open claddings, timber and lightweight steel frame constructions, public buildings and off-site construction.



Features and Benefits

- Class A2-s1, d0 to EN 13501-1
- Permanently UV-resistant behind partly opened facades or 9 months prior to cladding
- Wind and driving rain resistant
- Highly breathable with an Sd value of 0.08 m
- Highly airtight - Passiv Haus standards can be achieved
- High temperature resistance
- W1 water resistance
- Integrated adhesive strips

Packaging

Supplied on rolls of 1.2m x 35m

Storage

Store away from exposure to direct sunlight and in dry conditions.

Shelf Life

1 year when stored as recommended in original unopened packaging

Available Colour

Silver

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Technical Characteristics

Elongation At Break	EN 12311-1	6/5%
Air Tightness	EN 12114	0.094 m ³ /m ² .h@50Pa
Grammage		430 g/m ²
Material		Micro-perforated aluminium foil, functional film, glass fibre fabric, integrated adhesive tape
Maximum Tensile Strength Lengthwise/Crosswise	EN 12311-1 (EN 13859-1 Annex A)	3000/3200 N/50mm
Reaction To Fire	EN 13501-1	A2-s1, d0
Service Temperature		-40°C to +90°C
Tear Resistance	EN 12310-1 (EN 13859-1 Annex B)	580/450 N
Thickness		0.43 mm
Uv Resistance	Tested to 5000 hours	9 months prior to cladding. Permanent with joints of max 50mm and 50% open façade.
Water Vapour Permeability (μ)		235
Water Vapour Permeability (Sd)	EN 1931	0.08 m
Water Vapour Resistance	EN 12572	0.44 MNs/g
Weather Resistance	Before and after ageing - EN 1928	Class W1

Preparation

The substrate must be dry, degreased and free of dust and loose particles, which could negatively affect the application of ME050.

Application

ME050 FR Façade Membrane (ALU) is applied directly from the roll, with the application usually starting from the lower floors of the construction with the subsequent layers overlapping one another by the specified 100mm using the pre-applied adhesive strips. Vertical joints should overlap by 150mm.

Vertical overlaps & joints should be sealed using the illbruck ME355 FR Sealing Tape (ALU). Connections to windows and doors to make them watertight and airtight should be treated separately.

Please consult a member of the Tremco CPG UK technical team for specific solutions in these areas.

Health And Safety Precautions

Safety data sheet must be read and understood before use.

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Technical Service

Tremco CPG UK Limited has a team of experienced Technical Sales Representatives who provide assistance in the selection and specification of products. For more detailed information, service and advice, please call Customer Services on 01942 251400.

Guarantee Warranty

Tremco CPG UK Ltd products are manufactured to rigid standards of quality. Any product which has been applied (a) in accordance with Tremco CPG UK Ltd written instructions and (b) in any application recommended by Tremco CPG UK Ltd, but which is proved to be defective, will be replaced free of charge. No liability can be accepted for the information provided in this leaflet although it is published in good faith and believed to be correct.

Tremco CPG UK Limited reserves the right to alter product specifications without prior notice, in line with Company policy of continuous development and improvement.



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