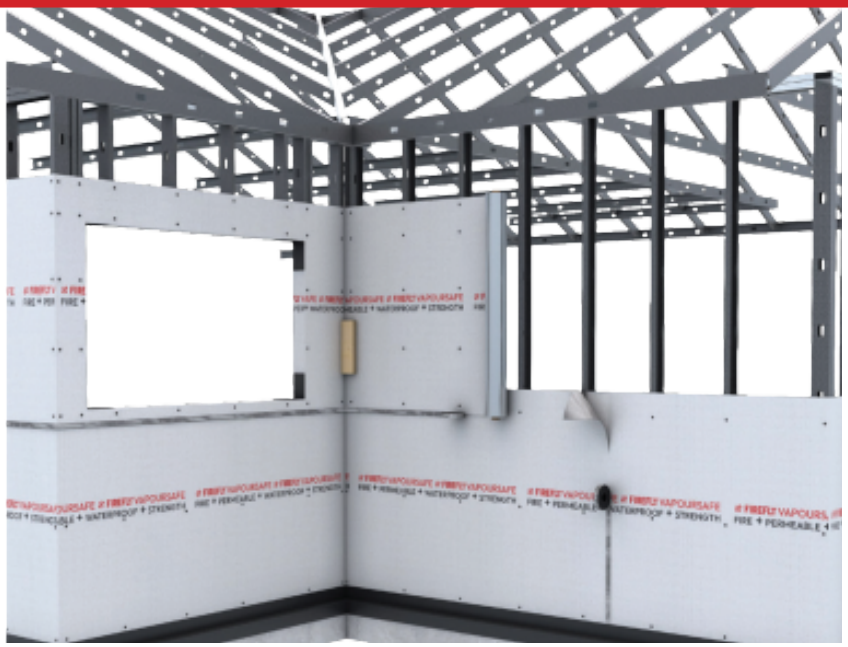
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VapourSafe®

3rd party certified | Ease of install | Water resistant | Breathable | Flexible & lightweight



DESCRIPTION

FIREFLY® VapourSafe® Membrane is a limited combustibility, fire resistant membrane that achieves Class A2 (EN13501-1). Water resistant to Class W1 and vapour permeable. Suitable for use as a lining within ventilated façade systems, including applications above 18 metres.

KEY BENEFITS

- Weatherproof and breathable, **FIREFLY**® VapourSafe® Membrane is designed to be a vapour permeable, reflective insulation layer in commercial facades and rain screen cladding systems.
- Classified A2 (EN13501-1), suitable for use over 18m – combining non-combustible fire resistance with traditional construction membrane performance requirements.
- Ideal for upgrading fire performance both on remedial work and new installations of cladding and rain screen systems
- Excellent strength and durability both before and after age testing, demonstrating sustainable performance attributes when weathered.
- Lightweight, flexible, resistant to damage during installation at temperatures as low as -40°C
- Ease of install
- Jointed by **FIREFLY**® membrane / foil tape

CONSTRUCTION

VapourSafe™ Membrane is a strong, breathable coated woven glass substrate, suitable for jointing with foil tape.

USE AREAS

FIREFLY® VapourSafe® Membrane is specifically designed with modular and offsite construction in mind. Its lightweight, durable composition makes it easy to handle in factory conditions, while its Class A2-s1, d0 fire classification ensures compliance is built in to every panel before arriving onsite. Typical applications include:

- Modular and offsite construction – pre-fabricated wall and façade panels where consistent fire safety and weather proofing must be assured during manufacture, transport, and installation.
- Rainscreen and ventilated façade systems – providing a vapour-permeable, weather-resistant layer behind cladding systems.
- High-rise and high-risk buildings, residential, commercial, healthcare and education projects where non-combustible materials are essential above 18m.
- Refurbishment and remedial works – upgrading the fire performance of existing façades without compromising breathability.

PRODUCT NAME	**FIREFLY**® VapourSafe® Membrane
DESCRIPTION	Coated woven glass/ breathable membrane fabric
APPLICATION	Modular builds, exterior cladding systems, High rise and high risk residential and commercial buildings.
REACTION TO FIRE	EN 13501-1:2018 A2, S1 d0 Non-combustible No significant contribution to fire at any stage of the fire
RESISTANCE TO WATER PENETRATION	EN 1928 Method A class W1 Measured before and after ageing
WATER VAPOUR DIFUSION	EN ISO 12572 S_{dc} (m) 0.06
DIMENSIONS & PACKAGING	Width: 125cm; Thickness: 0.2mm; Roll Length: 50m; Roll Area: 62.5m²; Weight: 265g/m², 16.5kg per roll nominal

TENSILE STRENGTH	EN 12311-1 (modified by EN 13859-1, EN 13859-2) MD >2200 N/50mm (pre-ageing) CD >1700 N/50mm (pre-ageing) MD >1400 N/50mm (post-ageing) CD >1000 N/50mm (post ageing)
ELONGATION	EN 12311-1 (modified by EN 13859-1, EN 13859-2) MD 4% (pre-ageing) CD 3% (pre-ageing) MD 3% (post-ageing) CD 2% (post ageing)
TEARING RESISTANCE (NAIL SHANK)	EN 12310-1 (modified by EN 13859-1, EN 13859-2) >170 N
DIMENSIONAL STABILITY	EN 1107-2 (% change) MD 0.17 %, CD 0.13 %
FLEXIBILITY AT LOW TEMPERATURE	EN 1109 No cracking at -40°C

V1.0 March 2026

03/2024-1 - All FIREFLY™ cavity barrier products must be installed in compliance with the FIREFLY™ Installation Guide, which is provided upon request. For larger installations, refer to the relevant product drawings 017 & 018. Contact the manufacturer for clarification on non-standard installations. Deviation from these drawings should not be carried out without written authority from the FIREFLY™ Technical Department. All figures quoted are nominal, believed to be true at the time of printing and are presented without guarantee. It is up to the user to determine the suitability of use.

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