glidevale FR protect

Condensation Control

Fire Rated Solutions

THINK FABRIC FIRST – REACH YOUR ENERGY EFFICIENCY TARGETS – GLIDEVALE PROTECT

FRAMESAFE 5000 FR

A2 FIRE RATED EXTERNAL WALL BREATHER MEMBRANE

Protect FrameSafe 5000 FR is a Class A2 fire rated breather membrane, designed for use on the external side of the frame to integrate with open joint façade wall structures on low, medium and high rise buildings.

With the Building Regulations Approved Document B for fire safety requiring an external wall membrane to achieve at least a Class B fire rating for structures over 11 m in height, Protect FrameSafe 5000 FR exceeds this requirement. This ensures peace of mind and assurance in specification over the long term if regulations change in the future.

Featuring an intricately woven glass fibre fabric with a fire rated and water resistant coating, Protect FrameSafe 5000 FR is specifically designed for use in open façade cladding applications, providing a temporary line of weather protection to the whole of the external wall during the construction process. Once built, the membrane creates a second line of defence against rainwater penetration, whilst offering added protection against the propagation of fire.

*Tested by external laboratory both free hanging and as part of a system in an end use application with Protect FrameSafe 5000 FR mechanically fixed over A1 & A2 substrates with a minimum density of 37.5 kg/m³. All laps perimeter sealed with Protect FR tape.

BENEFITS

- **Designed for use on low and medium rise structures over 11 m as well as tall building applications over 18m where open façade cladding or full rainscreen systems are installed.**
- **Fully compliant with EN 13501-1 and exceeds requirements in UK Building Regulations Approved Document B & Building Regulations Technical Guidance Document B in Ireland.**
- **A2 reaction to fire classification to ensure suitability for all building heights.**
- **Improves the fire performance of the overall wall structure.**
- **Strong UV stability – exposure up to six months to suit high rise developments.**
- **Artificial and accelerated UV ageing tested for 5000 hours, retaining Class W2 resistance to water penetration rating.**
- **High water vapour permeability to help avoid condensation risk.**
- **UKCA & CE marked.**
- **Protect FR tape available separately to seal laps for complete system solution.**
- **Fire tested by third party laboratory as a system with Protect FR tape, Protect FrameSafe 5000 FR achieves Class A2-s1, d0 reaction to fire, ensuring integrity of product specification.**
- **Advanced glass fibre fabric composition with added tensile strength and durability.**

Ideally suited to:

- **Open rainscreen cladding applications**
- **Low, medium and high rise structures**
- **Modular and offsite construction projects**
- **Higher risk buildings such as student accommodation, schools, hospitals, offices and care homes**
- **Steel and timber construction**
- **Residential and commercial developments**

A2 protect FrameSafe FR

NBS Chorus NBS Source

FRAMESAFE 5000 FR

A2 FIRE RATED EXTERNAL WALL BREATHER MEMBRANE

UV testing

Protect FrameSafe 5000 FR has been subjected to artificial and accelerated UV ageing for 5,000 hours in accordance with EN 13859-2 Flexible sheets for waterproofing - Underlays for walls.

Dimensions

Roll size: 1.5 m x 50 m (75 m²)
Roll weight: 16.73 kg

Appearance

Woven, embossed anthracite upper surface and silver lower surface.

Compatibility

As with all woven materials, do not lay in direct contact with undried timber preservatives (whether water or solvent based).

Accessories and fixing

Separate Protect FR tape to be used with the Protect FrameSafe 5000 FR membrane is available in 25 mm wide x 100 m long format for sealing laps. This is third party fire tested as part of a system application with the membrane.

For recommended mechanical fixings along with installation and detailing guidance, including maximum gaps allowable for use with the membrane on open jointed cladding applications, please contact Glidevale Protect's Technical team at technical@glidevaleprotect.com

For more information visit:
glidevaleprotect.com/framesafe5000

PERFORMANCE TO BS EN 13859-2:2010

	MD	CD
Nail tear strength (N) to BS EN 12310-1 modified to BS EN 13859-2	120	140
Unaged tensile strength (N/50 mm) to BS EN 12311-1 modified to BS EN 13859-2	1400	1400
Aged tensile strength (N/50 mm) to BS EN 12311-1 modified to BS EN 13859-2	1400	1400
Tensile strength after 5000 hours of artificial and accelerated UV ageing	1354	1335
Weight (g/m²) to BS EN 1849-2	223	
Reaction to fire to BS EN 13501-1 (BS EN ISO 1716 and BS EN 13823)	Class A2-s1, d0 *	
Flexibility at low temperature to BS EN 1109	-40°C	
Water vapour resistance to BS EN ISO 12572	≤0.6 MNs/g / ≤0.12 S_d(m)	
Resistance to water penetration to BS EN 13111	Pass Class W2	
Aged resistance to water penetration after 5000 hours of artificial and accelerated UV ageing	Pass Class W2	

MD = Machine Direction (along roll). CD = Cross Direction (across roll).
UV and heat ageing conditions: UVA lamps at 50°C for 5000 hours followed by heat ageing at 70°C for 90 days.
* Tested by external laboratory both free hanging and as part of a system in an end use application with Protect FrameSafe 5000 FR mechanically fixed over A1 & A2 substrates with a minimum density of 37.5 kg/m³. All laps perimeter sealed with Protect FR tape.

Specification clause:
Vapour permeable, fire rated external wall membrane to be Protect FrameSafe 5000 FR, glass fibre fabric supplied by Glidevale Protect, Studio 9, Jackson House, Sibson Road, Sale, Greater Manchester, M33 7RR.
T: +44 (0)161 905 5700
E: info@glidevaleprotect.com

Fire rated membrane to have an anthracite upper and silver lower layer, constructed from a woven glass fibre fabric that incorporates a fire rated and water resistant coating. The product should have a weight of 223 g/m² and be suitable for installation into low and medium rise structures over 11 m as well as high rise applications over 18 m (including use with open joint façade cladding) with the following technical characteristics: Reaction to fire - Class A2-s1, d0 (free hanging or fitted over either an A1 or A2 substrate*) to BS EN 13501-1, exceeding Building Regulations Approved Document B and Building Regulations Technical Guidance Document B requirements. Membrane should achieve a water resistance of Class W2 and a vapour resistance ≤0.6 MNs/g / ≤0.12 S_d(m) to BS EN ISO 12572. Product to be tested in excess of 5000 hours of artificial and accelerated UVA in accordance with BS EN 13859-2. External wall breather membrane to be fitted onto the external side of frame in accordance with manufacturer's instructions and membrane laps should be sealed with Protect FR tape, independently fire tested as part of a system.

*Class A2-s1, d0 when tested by an independent laboratory both free hanging and as part of a system, fixed over A1 & A2 substrates with a minimum density of 37.5 kg/m³ and all laps perimeter sealed with Protect FR tape.

Related Class A2 fire rated products

Protect FrameSafe FR external wall breather membrane: glidevaleprotect.com/framesafe
Protect FrameFoil FR low emissivity air and vapour control layer: glidevaleprotect.com/framefoil

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Glidevale Protect maintains a policy of continuous development and reserves the right to amend product specifications without notice.
Glidevale Protect is a trading brand of Wienerberger Ltd. Registration No : 5299520. Printed on sustainably sourced paper.

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