

# FRAMESAFE FR

A2 FIRE RATED EXTERNAL WALL BREATHER MEMBRANE

**NEW**

Protect FrameSafe FR is a high performance, Class A2 flame retardant breather membrane, designed for use on the external side of the frame to integrate with closed jointed 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 11m in height, Protect FrameSafe FR exceeds this requirement. This ensures peace of mind and assurance in specification, being future proofed against future regulation changes.

Featuring an intricately woven glass fibre fabric with a uniquely developed waterproof and fire resistant coating, Protect FrameSafe FR provides a primary line of protection to the whole of the external wall during the construction process and once built ensures 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 FR mechanically fixed over A1 & A2 substrates with a minimum density of 37.5 kg/m<sup>3</sup>. 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 full rainscreen cladding systems are installed.
- Fully compliant with EN 13501-1 and exceeds requirements in Building Regulations Approved Document B.
- 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.
- Class W2 (no leak) resistance to water penetration.
- 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 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:

- Low, medium and high rise applications
- 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

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## Dimensions

Roll size: 1.5 m x 50 m (75 m<sup>2</sup>).  
Roll weight: 16.73 kg.

## Appearance

Woven, embossed anthracite upper surface and silver lower surface.  
Bespoke co-branded printing available by request.

## 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 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, please contact Glidevale Protect's Technical team at [technical@glidevaleprotect.com](mailto:technical@glidevaleprotect.com)



## Specification clause:

Vapour permeable, fire rated external wall membrane to be Protect FrameSafe FR high performance, glass fibre fabric supplied by Glidevale Protect, 2 Brooklands Road, Sale, Cheshire, M33 3SS.  
T: +44 (0)161 905 5700  
F: +44 (0)161 905 2085  
E: [info@glidevaleprotect.com](mailto:info@glidevaleprotect.com)

Flame retardant membrane to have an anthracite upper and silver lower layer, constructed from a woven glass fibre fabric that incorporates a fire resistant and waterproof coating. The product should have a weight of 223 g/m<sup>2</sup> and be suitable for installation into low and medium rise structures over 11 m as well as high rise applications over 18 m 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 requirements. Membrane should achieve a water resistance of Class W2 (no leakage – aged) and a vapour resistance 0.1 MNs/g / 0.02 S<sub>d</sub> to BS EN ISO 12572. 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/m<sup>3</sup> and all laps perimeter sealed with Protect FR tape.

For more information visit [glidevaleprotect.com/framesafe](http://glidevaleprotect.com/framesafe)

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/50mm) to BS EN 12311-1 modified to BS EN 13859-2	1400	1400
Aged tensile strength (N/50mm) to BS EN 12311-1 modified to BS EN 13859-2	1400	1400
Weight (g/m <sup>2</sup> ) 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	0.1 MNs/g / 0.02 S <sub>d</sub>	
Resistance to water penetration to BS EN 13111	Pass Class W2 No leakage (aged)	

MD = Machine Direction (along roll). CD = Cross Direction (across roll).

UV and heat ageing conditions: UVA lamps at 50°C for 336 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 FR mechanically fixed over A1 & A2 substrates with a minimum density of 37.5 kg/m<sup>3</sup>. All laps perimeter sealed with Protect FR tape.



Glidevale Protect, 2 Brooklands Road, Sale, Cheshire, M33 3SS

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info@glidevaleprotect.com

Glidevale Protect

glidevaleprotect.com

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Glidevale Protect maintains a policy of continuous development and reserves the right to amend product specifications without notice. The company is a division of Building Product Design Ltd. Company registration 3944123. Printed on sustainably sourced paper.

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