



Glidevale Protect

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Construction Membranes

Fire Retardant External Wall Breather Membranes

Protect FrameSafe 5000 FR (Class A2 reaction to fire)

Protect FrameSafe 5000 FR is a high performance, Class A2 flame retardant breather membrane, produced in the UK. It is designed for use on the external side of the building frame to integrate with open joint façade wall structures on low, medium and high-rise buildings. Protect FrameSafe 5000 FR has been subjected to testing in an oven with artificial and accelerated UV ageing for 5000 hours followed by heat ageing at 70 degrees for ninety days, in accordance with BS EN 13859-2. The result of aged testing showed no significant impact on tensile strength and elongation as well as no change to the membrane's W2 resistance to water penetration rating to BS EN 13111. The membrane delivers strong UV stability and can be exposed for up to six months to suit high rise developments and is UKCA & CE marked.

Flame retardant membrane to have an anthracite upper layer with lap lines printed in pink ink and a 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 223g/m² and be suitable for installation into low and medium rise structures over 11m as well as high rise applications over 18m (including use with open joint façade cladding). The membrane should achieve a Class A2-s1, d0 reaction to fire both free hanging and fitted over either an A1 or A2 substrate to BS EN 13501-1, exceeding Building Regulations Approved Document B requirements. The membrane supplier should ensure that the Class A2 reaction to fire classification is fire tested by an independent laboratory, both free hanging and as part of a system on A1 & A2 substrates with a minimum density of 37.5kg/m³, with all membrane laps perimeter sealed with Protect FR tape.

Membrane should achieve a water resistance of Class W2 (no leakage – aged) and a water vapour transmission resistance of $\leq 0.6 \text{ MNs/g}$ / $\leq 0.12 \text{ Sd(m)}$ to BS EN ISO 12572. Nail tear strength should be 120 (MD along roll) and 140 (CD across roll) to BS EN 12310-1 modified to BS EN 13859-2 and tensile strength should be 1400 (MD along roll) and 1400 (CD across roll) to BS EN 12311-1, modified to BS EN 13859-2.





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External wall breather membrane should be fitted on the external side of the frame in accordance with manufacturer's instructions and membrane laps should be sealed with Protect FR tape, which should be independently fire tested as part of a system.

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STA Assured Gold accredited company and associate members of the Structural Timber Association (STA) The Modular and Portable Build Association (MPBA), The Irish Timber Frame Manufacturers' Association (ITFMA) and the Offsite Alliance (OA).

Product Reference: Protect FrameSafe 5000 FR Flame Retardant External Wall Breather Membrane for open joint façade cladding

Accessories

Protect FR Tape

Protect FR tape should be used with the Protect FrameSafe 5000 FR membrane. The tape should be available in 25mm wide x 100m long format for sealing membrane laps. Protect FR tape should be third party fire tested as part of a system application with the membrane and achieve a reaction to fire of Class A2-s1, d0.

