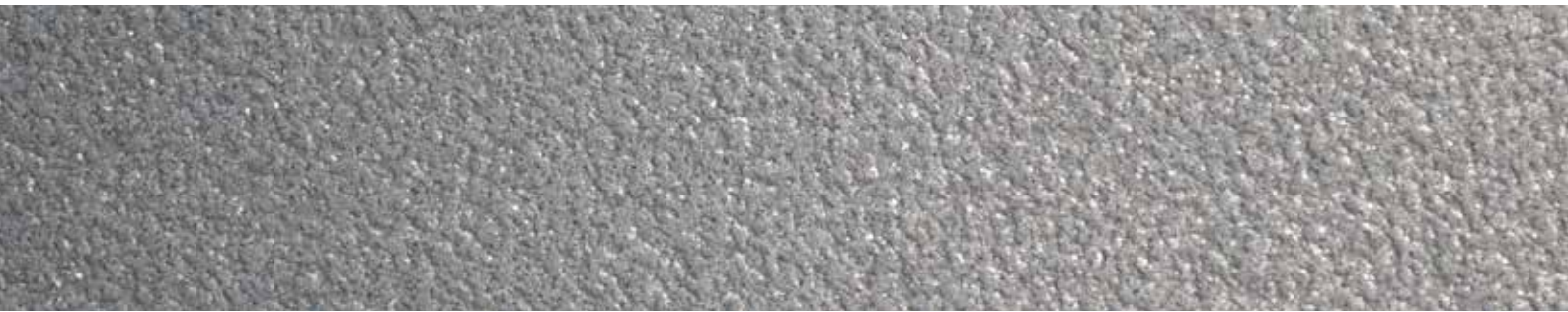


FIRESHIELD®

user guide



FIRESHIELD DETAILS

Fireshield is a vapour permeable walling underlay with an intumescent fire proof surface. Fireshield is suitable for all walling applications including those in multiple storey buildings. Its unique coating doesn't just resist fire, but eliminates fire spread and protects the structures underneath it.

- Class B, s1-d0 according to EN13501-1 test method: EN11925-2 and EN13823(SBI) but performs differently to membranes with the same classification
- Unique intumescent fire proof surface actively reacts to fire and prevents it from taking hold - membrane does not shrink away from fire
- Vapour permeable walling underlay for use either directly onto sheathing or insulation
- Complies with BS5250, BS4016, BS EN13859-2 & NHBC requirements for vapour permeable walling underlays
- Ideal for use in rainscreen / façade construction (class W1 water resistance)
- Suitable for high-rise applications

Installation of Fireshield

Fireshield is designed to be installed by a competent builder or general contractor experienced with this type of product, and is installed in the same manner as traditional breather membranes.

Unroll Fireshield membrane and fix directly to the substrate i.e. insulation / timber sheathing. Ensure the vertical laps of the

Fireshield are staggered. If using over timber, the location of the vertical studs should be highlighted on the membrane.

Fireshield must be secured with fixings that are appropriate to the substrate i.e.: nails or staples for timber kits, washers for fibrous insulations. Fixings should be placed at no more than 500mm intervals. Consideration should be made of the fire performance of the fixings.

Lap Fireshield by 100mm horizontally and 150mm vertically. At external corners return the membrane by 300mm (Fig 1). Upper layers should overlap lower layers to shed water away from the sheathing.

Detail Fireshield into openings to ensure the return provides sufficient lap and weathering for the proposed framing. Profoil Tape may be used to seal the corners (Fig 2).

Lap Fireshield at cavity barriers and trays by at least 100mm horizontally and 150mm vertically (Fig 3).

After Fireshield is installed, seal around penetrations with Profoil Tape.

Dimensions:

Fireshield	1.1m x 20m
Profoil Tape	100mm x 45m

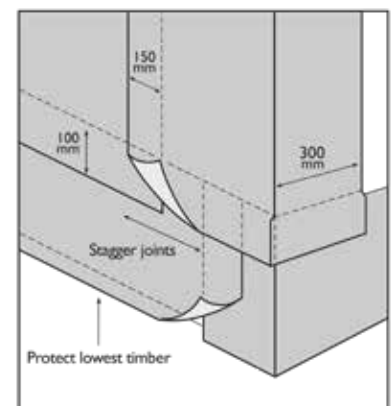


Fig 1

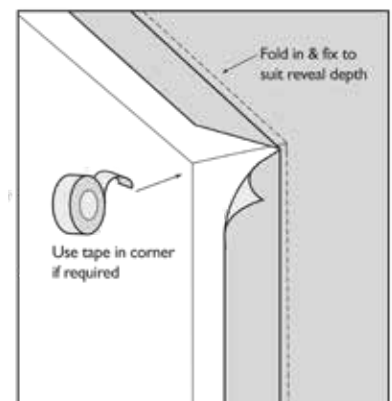


Fig 2

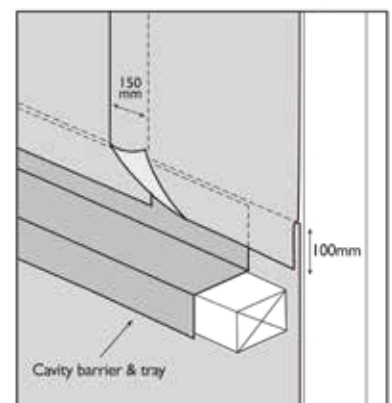


Fig 3



In the UK, given the mild weather conditions, a maximum exposure period of 6 months uncovered should be adhered to for Fireshield. In the winter months, or in cases of more extreme weather, this period should be reduced.

Repair

Care should be taken during installation to limit damage to the membrane. Damage to Fireshield can be repaired prior to the installation of the external cladding by laying another sheet of Fireshield over the damaged area, fixing mechanically, then sealing with Profoil Tape. Ensure the membrane is installed in a shingled manner to enable water to shed away from the building.

Health and Safety

Care should be taken in handling materials at height, in particular ensure that manual handling regulations are not exceeded. Before work commences a method statement and risk assessment requires to be prepared.

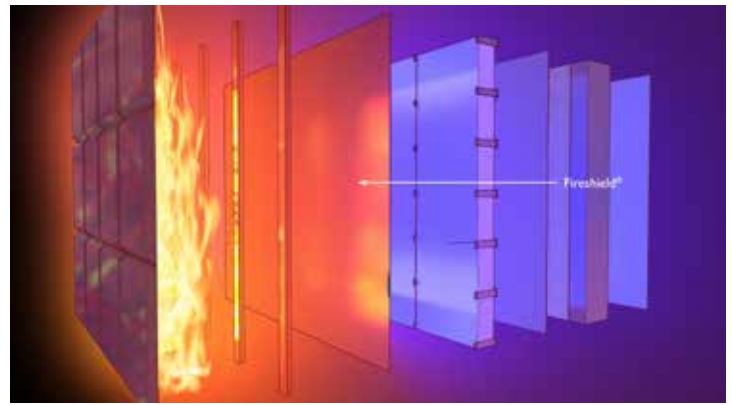
Standards and Guidance

Weather tightness: The appropriate national requirements state that walls should resist the penetration of rain from outside. The properties of Fireshield ensure that, when installed as recommended, a wall will comply with the following regulations:

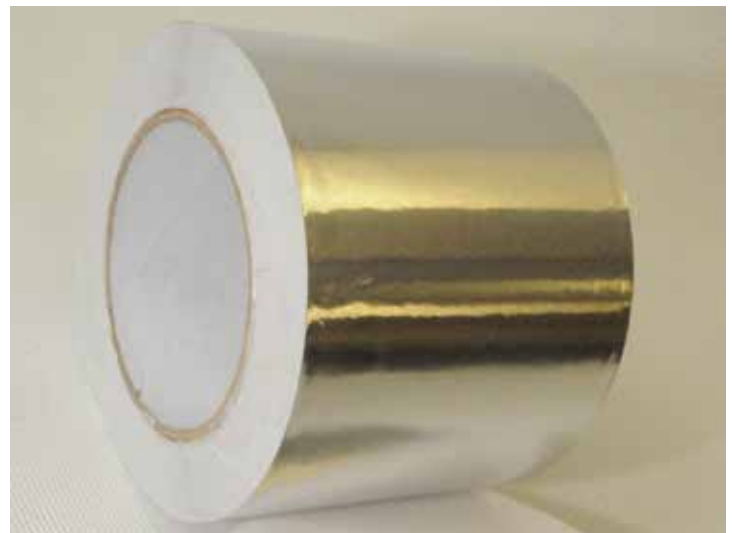
- Approved Document C, Section 5 (England);
- Approved Document C, Section 5 (Wales (E&W));
- Scottish Technical Handbook 3, Section 3.10 (Domestic and Non-domestic);
- Technical Booklet C, Section 6 (Northern Ireland)

Condensation risk: BS5250:2011 + A1:2016, British Standard Code of Practice for control of condensation in buildings, is the primary reference for the installation of membranes in walls and roofs. It is referenced extensively within the building regulations.

The standards set by the NHBC and the guidance for the construction of timber framed houses issued by TRADA, both specify the inclusion of a breather membrane outside the sheathing of timber framed walls.



Fireshield: front & reverse sides



Profoil Tape

TECHNICAL ADVICE

The A. Proctor Group has a dedicated Technical Department which can deal with installation details, view drawings for approval and give specialist advice on the correct use of the A. Proctor Group products.

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