

This certificate is valid for Building Regulations & associated technical guidance in force on the date of registration and for the regulations in the countries indicated

Fireshield

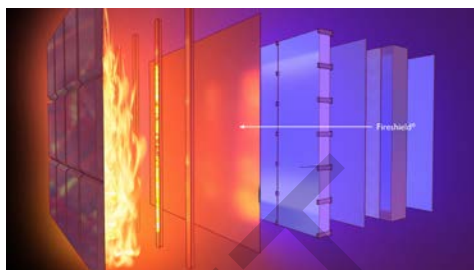
Description of Product

This is an assessment of Proctor's Fireshield, a high performance fire resistant vapour permeable walling underlay that ensures weather resistance to a rain screen façade. Fireshield is suitable for timber, steel and masonry constructions.

The membrane is a nonwoven fabric and is surface coated with an intumescent material that eliminates fire spread. The membrane can be placed behind cladding with open joints and can be left up to 12 months exposure before external cladding is applied. This is supported by long term UV testing.

The underlay is fixed in the same manner as standard breather membranes using mechanical fixings direct to sheathing boards or rigid insulation.

Cuts and penetrations are sealed with the Proctor Flexitime UV Tape.



Proctor
Group



Key Factors Assessed

- ☐ Mechanical Resistance & Stability
- ☐ Safety in case of Fire
- ☐ Health Hygiene and Environmental
- ☐ Safety in Use
- ☐ Energy Economy and heat retention
- ☐ Durability serviceability and identification

Validity

This certificate was first issued on 7th February 2019 and is valid until 7th February 2020

Issue Dated 7th February 2019

Scope of Registration

Fireshield is designed to be installed by a competent person with experience in installing this type of product.

The membrane is installed in the same manner as a traditional breather membrane and fixed directly to the insulation or timber sheathing substrate which should be a min thickness of 10mm to achieve the fire classification of B,s1,d0. If fire performance is not a priority, the membrane can be installed over the usual 9mm OSB/ply etc.

The installer should ensure vertical laps of the membrane are staggered and when using over timber sheathing the location of the vertical studs should be highlighted on the membrane.

The membrane must be secured with fixings that are appropriate for the substrate such as, nails or staples for timber applications and fixings with washers for fibrous insulations.

Those fixings should be placed at no more than 450mm intervals and the fire performance of any fixing should be considered.

Laps on the membrane should be 100mm horizontally and 150mm vertically. At external corners the membrane should be returned by 300mm. The upper layers should overlap lower layers so that water is dispersed away from the sheathing.

The membrane should have a sufficient returns into openings to ensure adequate weather proofing to the framing. Cut corners and any penetrations to the membrane should then sealed with the Proctor Flexitime UV Tape.

The membrane should be lapped over any cavity barriers by at least 100mm horizontally and 150mm vertically.

The physical properties of Fireshield are:

Property	Test Method	Mean Results
Roll Size	-	1.1m x 20m
Weight	EN 1849-2	720gsm
Thickness	EN12310-1	1.2mm
Nail Tear Resistance	EN 12310-1	MD 180N CD 220N
Resistance to Water Penetration	EN 13859-1	Class W1
Tensile Strength	EN 12311-1	MD 300N/50mm CD 275N/50mm
Elongation	EN 12311-1	MD 2-3% CD 2-3%
Water Vapour Transmission Properties	EN ISO 12572 conditions C	Sd=0.08m
Reaction to Fire	EN 13501-1 Test method: EN11925-2 and EN13823 (SBI)	B,s1,d0
Resistance to Air Penetration	EN 12114	1m3/h/m2@ 50Pa

Conditions of Certificate

The product must be installed by a competent installer and mechanically fixed as per the manufacturer's instructions.

Wood substrates must be at least 10mm thick in order to achieve the B,s1,d0 classification. 9mm OSB/plywood may be used if the fire performance is not a priority.

For Scotland purposes - the undernoted conditions apply in addition to those referred to above:

The specifications and materials referred to have been assessed in accordance with the Building (Scotland) Regulations 2004 and in accordance with the supporting guidance in the Domestic Technical Handbooks which came into force with effect from 1 July 2017.

Where reference is made on a plan or specification document to any Code of Practice, British or European Standard or manufacturer's instruction it shall be construed as a reference to such publication in the form in which it is in force at the date of this Registered Detail.

The materials specified shall be for purposes of this Registered Detail and should not be changed without first gaining approval so to do from Local Authority Building Standards Scotland [LABSS]. Failure to do so will invalidate the Registered Detail.

This Registered Detail should not be regarded as a formal approval under the building warrant process prescribed by the Building (Scotland) Act 2003 enacted from 1 May 2005

This Registered Detail shall contribute to compliance with relevant Mandatory Standards specified under the Building (Scotland) Regulations 2004 as amended when read with the scope, conditions and regulations sections to this Registered Detail.



LABC and LABSS consider that, Fireshield will meet the functional requirements of the Building Regulations (listed below) if the criteria detailed in this certificate are met;

The Building Regulations 2010 (as amended) England & Wales

Regulation 7	Materials and workmanship
Note:	Subject to the Scope of Registration and Conditions of Certificate.
AD A	Loading
Note:	Subject to the Scope of Registration.
AD B	Fire Safety
Note:	The product can contribute to meeting this requirement.
AD C	Resistance to Moisture
Note:	Subject to the Scope of Registration.
AD L1A	Conservation of Fuel and Power in new dwellings
Note:	The product can contribute to meeting this requirement.
AD L1B	Conservation of Fuel and Power in existing dwellings
Note:	The product can contribute to meeting this requirement.
AD L2A	Conservation of Fuel and Power in new buildings other than dwellings
Note:	The product can contribute to meeting this requirement.
AD L2B	Conservation of Fuel and Power in existing buildings other than dwellings
Note:	The product can contribute to meeting this requirement.



The Building Regulations 2010 (as amended) England

None presently.



The Building Regulations 2010 (as amended) Wales

None presently.



The Building (Scotland) Regulations 2004 (as amended)

Regulation 8	Durability, workmanship and fitness of materials
Regulation 0.8.5:	Ways of establishing the fitness of materials
Note:	Procheck Fireshield is covered by a harmonized standard and is CE marked to EN 13859-1 / EN 13859-2.

Regulation 9	Building Standards applicable to construction
Note:	Construction shall be carried out so that the work complies with the applicable requirements of schedule 5.
Mandatory Standard 3.10	Precipitation
Note:	The system is acceptable provided it is constructed in accordance with the manufacturer's details and by a competent person.
Mandatory Standard 3.15	Condensation
Note:	The system is acceptable provided it is constructed in accordance with the manufacturer's details and by a competent person.
Mandatory Standard 6.2	Building insulation envelope
Note:	The system will achieve the required U-value provided it is constructed in accordance with the manufacturer's details and by a competent person

Non-Regulatory Information



LABC Warranty

The use of Fireshield has not been assessed to meet the requirements of the LABC Warranty Technical Manual. If you would like to discuss a specific use please make an enquiry to technical.services@labcwarranty.co.uk

Supporting Documentation

Fire test report 6P10424-1 provided by SP technical research institute of Sweden

Declaration of Performance Certificate December 2018

Fireshield Data Sheet Revised August 2018

Fireshield Performance Specification Revision 28th May 2018

Fireshield User Guide December 2018

Calculations for Interstitial Condensation:

- Steel Frame – block and render 14th Aug 2018
- Steel Frame – board and render 14th Aug 2018
- Steel Frame – brick 14th Aug 2018
- Steel Frame – timber 16th Aug 2018
- Timber Frame – block and render 14th Aug 2018
- Timber Frame – board and render 14th Aug 2018
- Timber Frame – brick 14th Aug 2018
- Timber Frame – timber 14th Aug 2018

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