Proctor Group

APG

FACADESHIELD® FR CLASS B INSTALL GUIDE

MEMBRANE & ACCESSORIES



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Holistic Solutions for a Healthy Building Envelope

MEMBRANE SPECIFICATION

Fire Rating:
B-s1,d0

Vapour Permeability:
Sd 0.08m

Water Holdout:
W1

Weight:
148 g/m^2

Dimensions:
Roll size: 1.5m x 50m

OVERVIEW

TECHNICAL ADVICE

The A. Proctor Group has a dedicated Technical Department which can help 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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1. OVERVIEW

FACADESHIELD FR CLASS B MEMBRANE

- A 3 layer monolithic membrane.
- Combines vapour permeability, water resistance and airtightness in one membrane.
- Reaction to Fire classification of B-s1,d0 when installed free-hanging and when installed over a substrate of EuroClass A1 or A2-s1, d0, as well as gypsum boards in accordance with EN 520, with a minimum thickness of 12 mm and a minimum bulk density of 525 kg/m³.

REQUIRED TAPES

- Proctor Class B Tape (75mm x 25m) – For sealing the overlaps.
- Probreathe Duo Tape (optional) - for temporary bond back to substrate.
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RECOMMENDED TOOLS

- Utility Knife
- Measuring Tape
- Scissors
- 50mm Roller
- Chalk Line
- Straightedge

ASSOCIATED PRODUCTS:

- Wrapseal interface membrane
- Wraptite LF'



Proctor Class B Tape

2. PREPARATION

STORAGE & HANDLING

Store the rolls horizontally in a cool, dry place. Handle the material carefully, ensuring that the membrane is not folded, stretched or creased.

SUBSTRATE PENETRATION

- Substrate must be dry and free from any contaminants or sharp protrusions that may be present to ensure they do not cause any damage to the membrane.
- Remove and replace any damaged structural wall components.
- Make sure all fixings are flush with the substrate.

INSTALLATION

The contents of this installation guide are provided by A. Proctor Group Limited (APG) in good faith for general information purposes only. The statements and data contained in this guide are not specific technical recommendations as to any particular design or application. APG give no warranty and accept no liability for its contents and the ultimate determination as to product suitability is the sole responsibility of the installer or end user. APG strongly recommends following the installation guidelines and the relevant Codes of Practice which are correct at the time of publication and results may vary depending on the particular design/and or application.

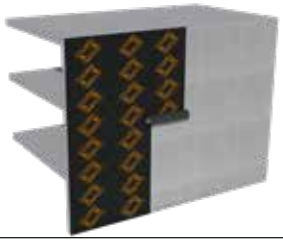


Fig. 1a



Fig. 1b

3. INSTALLATION

GENERAL APPLICATION

- Facadeshield FR Class B is an airtight, vapour permeable membrane suitable for use on a variety of construction types, such as large scale rainscreen constructions, curtain-walling, pre-fabrication, masonry build and timber frame.
- This membrane reduces the likelihood of failures to meet 'as designed' airtightness levels, Facadeshield FR Class B helps to narrow the gap between as designed and actual energy performance.
- Unroll Facadeshield FR Class B membrane and fix directly to the substrate i.e. insulation / timber sheathing. Ensure the vertical laps of the Facadeshield FR Class B are staggered. If using over timber, the location of the vertical studs should be highlighted on the membrane.
- Facadeshield FR Class B must be secured with austenitic stainless steel nails or staples at no more than 500mm intervals.
- Lap the Facadeshield FR Class B breather membrane by 100mm horizontally and 150mm vertically and at external corners return the membrane by 300mm (see Fig. 1a/b). Upper layers should overlap lower layers to shed water away from the sheathing.
- At openings, the Facadeshield FR Class B breather membrane should be detailed into the opening return to ensure there is sufficient lap and weathering with the proposed framing. The Facadeshield FR Class B breather membrane should be lapped at cavity barriers and trays by at least 100mm horizontally and 150mm vertically.
- After installation of the Facadeshield FR Class B membrane, seal joints and penetrations with Proctor Class B Tape to provide a simple method of achieving low air leakage rates, whilst maintaining a highly vapour permeable envelope across the building.

INSTALLATION



OVERLAPS

- Horizontal overlaps – minimum 100mm ensuring the shingle effect is achieved (upper courses lapped over lower courses).
- Vertical overlaps – minimum 150mm.
- Internal and external corner overlaps – minimum 150mm.
- All overlaps and finished edges should be sealed with Proctor Class B Tape to prevent water ingress, air leakage and any damage to the membrane. A roller should be used to ensure an effective bond between the tape and the membrane.

NOTE

Facadeshield FR Class B should be covered with the final external protective layer (i.e.: cladding,) within 12 months. If exceeding this limit is unavoidable, protect Facadeshield FR Class B from the elements with a tarpaulin. All membranes require protection from heavy/prolonged rainfall and extreme weather events while being installed. Waterproofing materials (e.g. tarpaulins) should be utilised as necessary to ensure the leading edges of all membranes are protected until the façade is complete.

INSTALLATION

WALL PENETRATIONS

- Large gaps should be filled with Wraptite Liquid Flashing
- Cut an appropriately sized piece of Facadeshield FR Class B membrane to act as a flashing piece to simplify installation and handling.
- Install Facadeshield FR Class B membrane flashing piece up to the penetration edges, ensuring a bond to the Proctor Class B Tape as per standard installation.
- Use Proctor Class B Tape to seal the penetration by folding half of the tape onto the membrane, and the other half onto the penetration (see Fig. 2b, 3 & 4).
- Tape the main areas of the membrane to the flashing piece and seal the perimeter with Proctor Class B Tape.


Fig. 2a

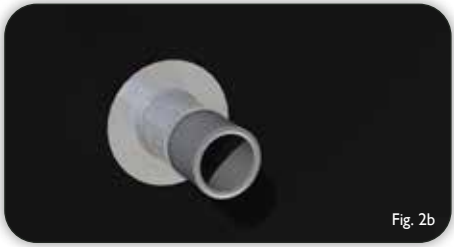

Fig. 2b


Fig. 3


Fig. 4

INSTALLATION

PATCH REPAIRS

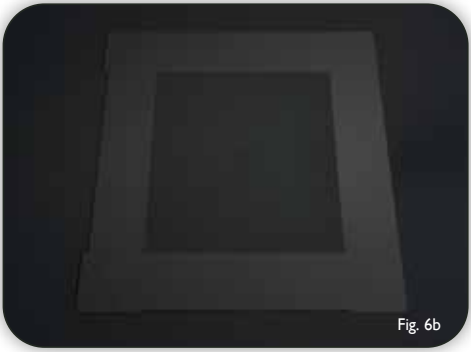
- Any small tears, punctures or penetration damage can be remediated by a small patch of Proctor Class B Tape over the damaged area, and rollered into place - see Fig. 5a & 5b.

- Larger areas of damage should be repaired by utilizing a patch of Facadeshield FR Class B membrane, taped down around all four sides with the Proctor Class B Tape - see Fig. 6a & 6b.


Fig. 5a


Fig. 5b


Fig. 6a


Fig. 6b

APG Mission:
Leading the construction sector to provide holistic solutions for a high-performing and healthy building envelope.

APG Vision:
To be the most trusted partner worldwide for building envelope products, services and solutions.



"I believe the success of the A.Proctor Group is down to a solid foundation of innovation backed up by an excellent, loyal and committed team, every one of them playing an important role in our continued success. Scotland provides us with a unique platform to launch our ideas, systems and products. I am fiercely proud of this heritage and our brand."

Keira Proctor
Managing Director, A. Proctor Group Ltd

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