FramePro W1
user guide

FramePro W1 DETAILS

FramePro W1 is a low-resistance vapour permeable air barrier for walls. It is durable, flexible and lightweight, allowing for easy installation, and offers temporary protection against wind-driven rain, snow and dust.

- Airtight
- Excellent resistance to water penetration
- Excellent water vapour transmission properties
- BBA - certificate number 14/5153
- Thermally Efficient
- Wraptite Tape used in conjunction

Installation of FramePro W1

FramePro W1 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.

A robust membrane, which reduces the likelihood of failures to meet 'as designed' airtightness levels, FramePro W1 helps to narrow the gap between as designed and actual energy performance.

FramePro W1 is designed to be installed by a competent general builder, or a contractor, experienced with this type of product and should be installed in accordance with British Board of Agrément Certificate No. 14/5153.

General installation information

Unroll FramePro W1 membrane and fix directly to the substrate i.e. insulation / timber sheathing. Ensure the vertical laps of the FramePro W1 are staggered. If using over timber, the location of the vertical studs should be highlighted on the membrane.

FramePro W1 must be secured with austenitic stainless steel nails or staples at no more than 500mm intervals.

Lap the FramePro W1 breather membrane by 100mm horizontally and 150mm vertically and at external corners return the membrane by 300mm, see Figure 1. Upper layers should overlap lower layers to shed water away from the sheathing.

At openings, the FramePro W1 breather membrane should be detailed into the opening return to ensure there is sufficient lap and weathering with the proposed framing. The FramePro W1 breather membrane should be lapped at cavity barriers and trays by at least 100mm horizontally and 150mm vertically.

After installation of the FramePro W1 membrane, seal joints and penetrations with Wraptite Tape to provide a simple and robust method of achieving low air leakage rates, whilst maintaining a highly vapour permeable envelope across the building. Wraptite Tape is also used to seal panel joints in airtight substrates such as OSB or insulation and seal penetrations resulted from services and structural elements.

Dimensions

FramePro W1: 1.5m x 50m
Wraptite Tape: 75, 100 or 150mm width x 50m length

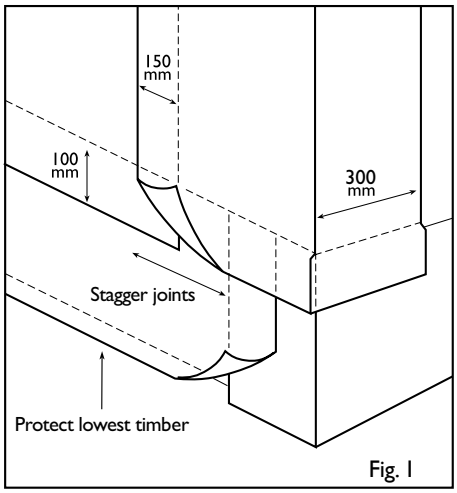

Fig. 1

Insert Code
122
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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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In the UK, given the mild weather conditions, a maximum exposure period of 3 months should be adhered to for FramePro W1. In the winter months, or in cases of more extreme weather, this period should be reduced.

The internal lining, usually plasterboard, should incorporate a vapour control layer to limit the amount of water vapour transferring into the structure from the warm humid interior of the building. It is important that this internal layer is sealed and airtight as large amounts of water vapour can be carried into the structure by air movement. Alternatively the vapour seal can be created by tightly installing a vapour resistant insulation with gaps sealed.

Repair

Damage to FramePro W1 membrane can be repaired prior to the installation of the external cladding by laying another sheet over the damaged area and sealing with Wraptite Tape. Care should be taken to ensure water is 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.

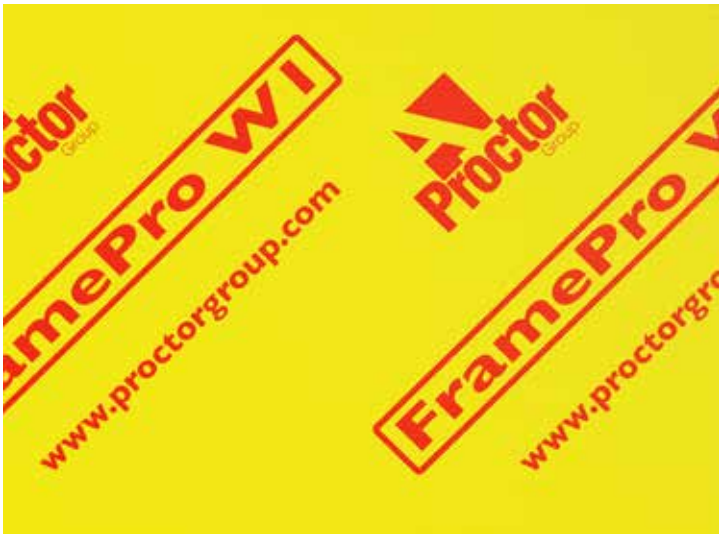
Standards and Guidance

Weather tightness: The appropriate national requirements state that walls should resist the penetration of rain from outside. The properties of FramePro W1 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: BS5250:2021 Moisture Management in Buildings - Code of Practice, 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.



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