

AirFlo™ White VPM

VAPOUR PERMEABLE MEMBRANE



INSTALLATION RECOMMENDATION

AirFlo™ White VPM shall be installed in accordance with AS/NZS 4200.2 Pliable Building Membranes and Underlays, Part 2 Installation Requirements. AirFlo™ White VPM shall be installed taut over the outer frame, with the printed face outwards (if applicable) and secured to all framing members at regular intervals.

- Step 1** Install horizontally to the outer face of the external stud walls, from the bottom plate up, over the flashing, ensuring the lowest timbers or steel frame sections are protected from the moisture.
- Step 2** Upper layers should overlap lower layers to the outside surface. Vertical laps should be staggered wherever possible and overlap by one full stud spacing. Overlaps should not be less than 150mm unless taped.
- Step 3** Fixings should be located within 50mm from the edge of AirFlo™ White VPM and spaced at regular intervals so as to not exceed 300mm to prevent damage by wind. Fixing placement may need to be reduced depending on wind conditions to prevent damage prior to cladding.
- Step 4** Run AirFlo™ White VPM over openings and leave covered until fenestrations are being installed. Cut AirFlo™ White VPM on a 45° diagonal from each corner of the opening. A watertight seal is achieved at penetrations by installation of AirFlo™ Tape.
- Step 5** At penetrations, such as pipes, use AirFlo™ Tape or an additional piece of AirFlo™ White VPM fixed around the penetration and taped into position, to channel water away from opening.
- Step 6** Install the cladding as per the manufactures specifications.

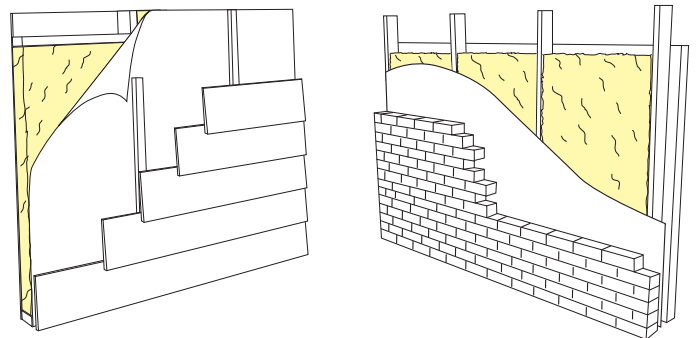
FIXING RECOMMENDATION

When fixing timber frames, it's recommended that plastic washers or coated flange screws or punched multi-point metallic-coated steel brads are used. Alternatively 8-10mm staples at 150mm intervals may be used where wind conditions do not create a risk of tearing around the staple head.

When fixing to steel or aluminium it is recommended to use plastic washers with tek screws or minimum 20mm diameter washers or through hardboard strips.

When fixing to plywood or other timber substrates use plastic washers and ensure the positions of the studs are marked to identify where further fixings such as wall ties can be used.

If AirFlo™ White VPM is used to provide a continuous airtight layer, all overlaps should be sealed with AirFlo™ Tape. In difficult areas or shaped penetrations, use a combination of AirFlo™ Tape and mastic sealant to cover over penetration and AirFlo™ White VPM junction openings. AirFlo™ Tape can also be used to repair tears.



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CONDENSATION RISK

There are a number of factors that need to be considered in assessing and managing condensation risk including; local climate, building use, position, thickness and type of bulk insulation, location and integrity of vapour barriers, and mechanical or passive ventilation both in the roof space and wall cavities where applicable. It is highly recommended that designers run a condensation risk analysis.

It is recommended for high condensation risk applications **AirFlo™ White VPM** must be installed adjacent to an outer cavity. The cavity shall provide a drainage and drying path.

DURABILITLY

AirFlo™ White VPM can be used as temporary protection during construction. The product may be damaged by careless handling, high winds and vandalism, and should not be left uncovered longer than is absolutely necessary. Any damaged areas should be patch repaired or replaced before primary cladding install completion.

Ensure that **AirFlo™ White VPM** is covered by the primary cladding material as soon as possible and not left longer than 26 weeks.

AirFlo™ White VPM is not to be used in open joint screen cladding installations where it could be exposed to long term UV radiation.

Some timber treatments impact on the water resistance of the product so **AirFlo™ White VPM** should only be applied once such treated timber has dried.

OCCUPATIONAL HEALTH & SAFETY

AirFlo™ White VPM is not designed for fall prevention purposes and is not intended to support a person's weight, or to be walked on.

Installing lightweight membranes in high and windy conditions is difficult and appropriate precautions should be taken during installation.

Tested to AS/NZS 1530.2 **AirFlo™ White VPM** achieves a flammability index of low (i.e. ≤ 5).

STORAGE & HANDLING REQUIREMENTS

Rolls may be stored flat on a clean, level surface and kept under cover.

This product should be installed in accordance with AS/NSZ 4200.2

Products are to be stored flat on a clean, level surface and kept under cover. Returns of product displaying effects of deformation due to incorrect storage practices will not be accepted.

The product information included in this publication is provided in good faith in order to ensure the optimum performance of this product. However, no warranty is given or implied with respect to this information or the product itself regarding the products suitability for any particular purpose, as factors outside our knowledge and control may effect its use. The usage of this and other building membranes will affect moisture migration in the building element. the purchaser is responsible for independently determining the sustainability of the product for the intended purpose. GI Building Sciences Pty Ltd reserves the right to amend product specifications without prior notice. Information provided is considered to be true and correct at the time of publication.

KEY POINTS

- ✓ It is good practice for **AirFlo™ White VPM** to be separated from the exterior cladding by a minimum of 20mm vented cavity. This allows for the drainage of any moisture that has penetrated the exterior cladding or condensation that may form on the rear face of the cladding
- ✓ Adequate provision for the drainage, absorption or diffusion of moisture is required to ensure that moisture is not left trapped between **AirFlo™ White VPM** and the external cladding. This is especially important for vapour tight or non absorbent claddings such as metal
- ✓ Care should be taken when installing bulk insulation so that this does not restrict drainage within the cavity
- ✓ Upper layers should overlap lower layers to ensure water is always shed towards the outside of **AirFlo™ White VPM** and building
- ✓ Vertical laps should be staggered wherever possible and should overlap by one full stud spacing or overlapped at a stud with additional fixings and taped
- ✓ If **AirFlo™ White VPM** is used to provide a continuous airtight layer, all overlaps should be sealed with **AirFlo™ Tape**
- ✓ Follow installation manuals from cladding manufacturers and consult the supplier where advice is contradictory