

INSTALL GUIDE

Reflecta-VPM™ VAPOUR PERMEABLE MEMBRANE



INSTALLATION RECOMMENDATIONS

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

Install horizontally to the outer face of external stud walls, from the bottom plate up, over the flashing, ensuring the lowest timbers or steel frame sections are protected from moisture. 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.

Fixings should be located within 50mm from the edge of Reflecta-VPM™ and spaced at regular intervals so as not to exceed 300mm to prevent damage by wind. Fixing placement may need to be reduced depending upon wind conditions to prevent damage prior to cladding.

When fixing to timber frames, it is recommended that Plastic Washers or coated flanged screws or punched multi-point metallic-coated steel brads are used.

Alternatively 8-10mm staples at 150mm intervals maybe used where wind conditions do not create a risk of tearing around the staple head.

When fixing to steel or aluminum 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.

Users are required to determine if fixing details are appropriate for the design wind load. Stainless steel fixings are recommended as required in corrosive environments.

At penetrations, such as pipes, use Flexi-Tape or an additional piece of Reflecta-VPM™ fixed around the penetration and taped into position, to channel water away from the opening.

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

DURABILITY

Although Reflecta-VPM™ can be used as temporary protection during construction, it cannot be used as a primary waterproofing membrane. The product may be damaged by careless handling, high winds or vandalism, and should not be left uncovered for longer than is absolutely necessary. Any damaged areas should be patch repaired or replaced before primary cladding install completion.

Ensure that Reflecta-VPM™ is covered by the primary cladding material as soon as possible, and not left exposed to UV for longer than 4 weeks.

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

Some timber treatments may impact on the water resistance of the product so Reflecta-VPM™ should only be applied once such treated timber has dried.

STORAGE & HANDLING REQUIREMENTS

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

WINDOWS

Run Reflecta-VPM™ over openings and leave covered until fenestrations are to be installed. Cut Reflecta-VPM™ on a 45° diagonal from each corner of the opening, fold the flaps inside and fix to the inside frame of the opening. A water tight seal is achieved at penetrations by installation of Reflecta-VPM Tape™.

NOTE: Reflecta-VPM™ is not a substitute for use as a flashing of fenestrations. It is recommended that installers follow the Australian Window Association Industry Guide and consult with the cladding and window manufacturer to confirm a suitable method of installation to provide a continuous water barrier and/or air-tight layer between Reflecta-VPM™ and fenestration boundary.

CONDENSATION RISK

There are a large 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, Reflecta-VPM™ must be installed adjacent to an outer cavity. The cavity shall provide a drainage and drying path.

OCCUPATIONAL HEALTH & SAFETY

Reflecta-VPM™ is not designed for fall prevention purposes and is not intended to support a person's weight, or to be walked upon.

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

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

PRODUCT PERFORMANCE

Reflecta-VPM™ performs to specification in normal building applications when installed in accordance to AS/NZS 4200.2 and this user guide. The information herein is supplied in good faith and to the best of our knowledge was accurate at the time of publication.

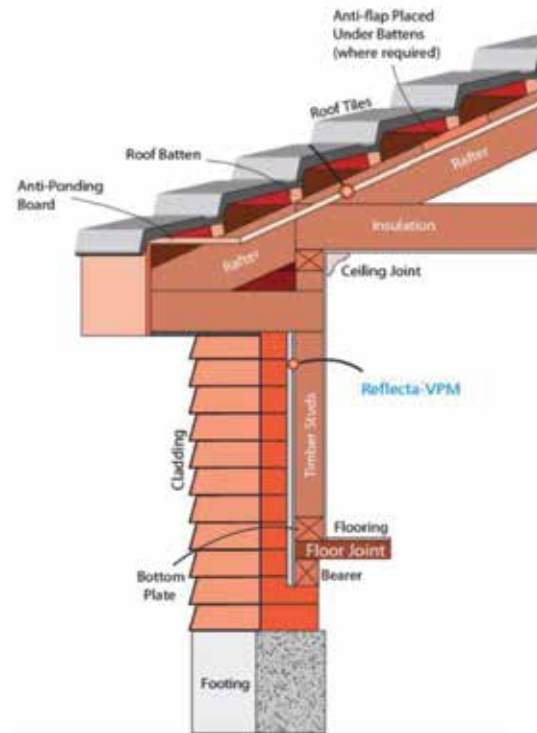
Users are advised to make their own determination as to the suitability of this information in relation to their particular purpose and specific requirements.

This product should be installed in accordance with AS 4200.2

Products are to be stored standing upright and on pallets not more than two high. Product warranty is voided for any product stored horizontally resulting in squeeze or crush. 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 product's suitability for any particular purpose, as factors outside our knowledge and control may affect 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 Services 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.

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KEY POINTS

- ✓ It is "good practice" for Reflecta-VPM™ to be separated from the exterior cladding by a minimum 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 Reflecta-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 Reflecta-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 Reflecta-VPM™ is used to provide a continuous air tight layer, all overlaps should be sealed with Reflecta-VPM Tape™.
- ✓ Follow installation manuals from cladding manufacturers and consult the supplier where advice is contradictory.