

# AirFlo™ Reflecta VPM - Roof

VAPOUR PERMEABLE MEMBRANE



## INSTALLATION RECOMMENDATION

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

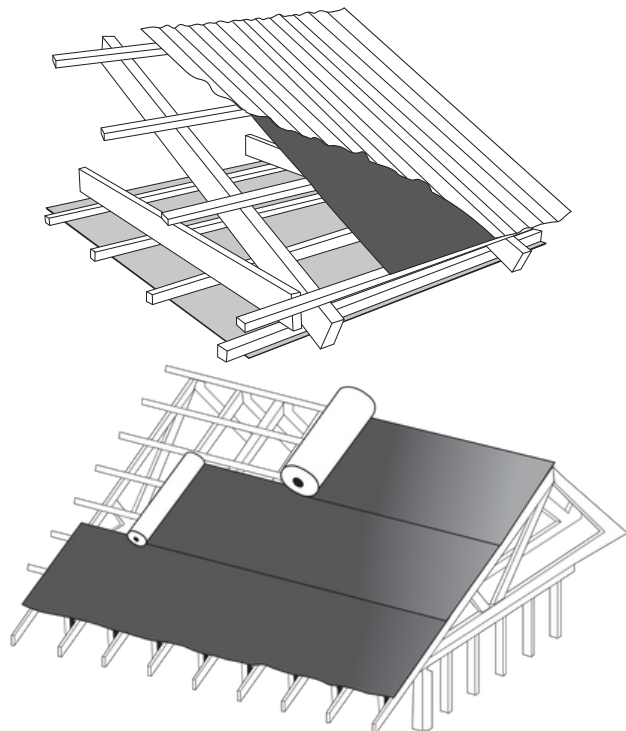
- Step 1** Having provided appropriate fall arrest to the building, roll out the AirFlo™ Reflecta VPM (Roof) product across the top of the steel purlins or timber roof structure, ensuring the reflective foil is facing downwards and install roof sheets to permanently fix (for tiled roof install under the battens).
- Step 2** Roll out the next roll of the product overlapping by no less than 150mm and tape to the exterior side only using the 72mm wide (or greater) vapour permeable tape to join.
- Step 3** AirFlo™ Reflecta VPM (Roof) shall be installed taut over the frame, with the white face outwards and secured to all framing members at regular intervals.
- Step 4** AirFlo™ Reflecta VPM (Roof) should be installed over the ridge line by a minimum of 150mm on each side.
- Step 5** If product is damaged or torn during installation then this should be replaced or repaired using AirFlo™ Tape to maintain integrity of the product.
- Step 6** Roof sheeting can be installed by screwing through the product to the steel purlins or timber roof structure.

### Note:

Air Flo™ Reflecta VPM (Roof) shall be installed in accordance with AS/NZS 4200.2 Pliable Building Membranes and Underlays, Part 2 Installation Requirements.

AirFlo™ Reflecta VPM (Roof) shall be installed in accordance with NCCs requirements.

Users are required to determine if fixing details are appropriate for the design wind load.



# AirFlo™ Reflecta VPM (Roof)

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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™ Reflecta VPM \(Roof\)](#) must be installed adjacent to an outer cavity. The cavity shall provide a drainage and drying path.

### DURABILITY

[AirFlo™ Reflecta VPM \(Roof\)](#) 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 using [AirFlo™ Tape](#) or replaced before primary cladding install completion.

Ensure that [AirFlo™ Reflecta VPM \(Roof\)](#) is covered by the primary cladding material as soon as possible and not left longer than 26 weeks.

[AirFlo™ Reflecta VPM \(Roof\)](#) 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™ Reflecta VPM \(Roof\)](#) should only be applied once such treated timber has dried.

### OCCUPATIONAL HEALTH & SAFETY

[AirFlo™ Reflecta VPM \(Roof\)](#) 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™ Reflecta VPM \(Roof\)](#) achieves a flammability index of low (i.e.  $\leq 5$ ).

### STORAGE & HANDLING REQUIREMENTS

Rolls must 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™ Reflecta VPM \(Roof\)](#) 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™ Reflecta VPM \(Roof\)](#) 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™ Reflecta VPM \(Roof\)](#) 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™ Reflecta VPM \(Roof\)](#) 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