

Enviroseal ProctorWrap RW Residential Wall — Installation Guide

Installation Recommendations

Enviroseal ProctorWrap Residential Wall (RW) shall be installed in accordance with AS/NZS 4200.2 Pliable Building Membranes and Underlays, Part 2 Installation Requirements. Enviroseal ProctorWrap RW shall be installed taut over the outer frame or brace board framing, 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 so water progressively cascades down the membrane towards the outside of the building. 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 the membrane 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 Bradfix Plasti-Grip Washers, or Bradfix Enviroseal Fasteners, or coated flanged screws or punched multi-point metallic-coated steel brads, or min 20mm Masonite strip 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 Bradfix Plasti-Grip Washers with tek screws or minimum 20mm diameter washers or through hardboard strips. It is recommended to use ProctorWrap SLS Duo Tape for temporarily fixing to steel frames.

When fixing to plywood or other timber substrates use Bradfix Plasti-Grip Washers or Bradfix Enviroseal Fasteners, 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 Enviroseal ProctorWrap HighTack or Flexi-tape or an additional piece of Enviroseal ProctorWrap RW fixed around the penetration and taped into position, to channel water away from the opening.

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

Durability

Although Enviroseal ProctorWrap RW 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 Enviroseal ProctorWrap RW is covered by the primary cladding material as soon as possible, and **not left exposed to UV for longer than 4 weeks.**

Enviroseal ProctorWrap RW 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 the membrane should only be applied once such treated timber has dried.

Delivery, Storage and Site Handling Requirements

Enviroseal ProctorWrap RW rolls are individually wrapped in a transparent polyethylene sleeve with an Enviroseal ProctorWrap RW 'User Guide' included with each roll. Rolls may be stored flat or upright on a clean, level surface and kept under cover.

Windows

Pre-Window Install

Run Enviroseal ProctorWrap RW over openings and leave covered until fenestrations are to be installed. Cut the membrane 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 of the Enviroseal ProctorWrap RW is achieved at penetrations by installation of Enviroseal ProctorWrap Tape(s).

NOTE: Enviroseal ProctorWrap RW 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 the membrane 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, Enviroseal ProctorWrap RW be installed adjacent to an outer cavity. The cavity shall provide a drainage and drying path.

Occupational Health and Safety

All proper safety measures should be taken during installation of Enviroseal ProctorWrap RW. All relevant OH&S and statutory regulations must be followed.

Enviroseal ProctorWrap RW 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 Enviroseal ProctorWrap RW achieves a flammability index of low (i.e. ≤ 5).

Product Performance

Enviroseal ProctorWrap RW 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.

Enviroseal ProctorWrap Residential Wall (RW)

Product Description:

Light* Duty vapour permeable membrane for use in:

- Light Weight Clad Walls
- Brick Veneer Walls

Product Code: 118153

Width:	1500mm
Length:	50m
Area:	75m ²
Colour:	Grey (top) printed in green

Classifications in accordance with AS/NZS 4200.1:

DUTY:	Light*
VAPOUR BARRIER:	Low
VAPOUR PERMEABILITY:	4.5µg/N.s
EMITTANCE:	Non-reflective
WATER BARRIER:	High
FLAMMABILITY INDEX:	Low (≤ 5)

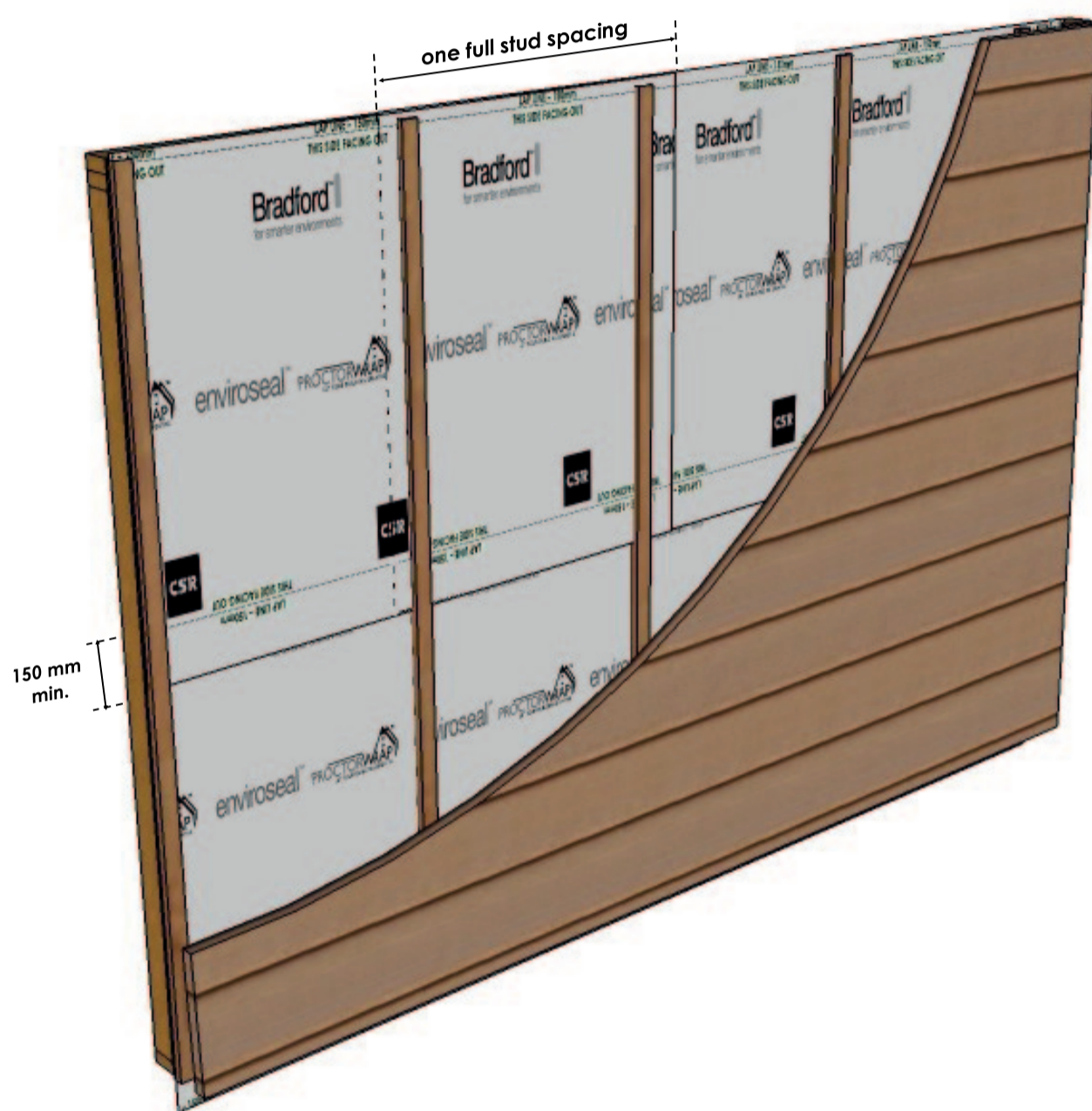
* Enviroseal ProctorWrap RW is classified as light duty in accordance with the value specified for bursting strength.

A product identifier code is printed on the underside of the membrane at 1m intervals. This product has been manufactured in conformity with EN 13859-1:2. Quality control checks on the finished product include:

- Weight
- Tensile strength and elongation
- Tear
- Water resistance
- Dimensional stability
- Water vapour transmission
- Reaction to fire
- Properties after artificial ageing



Enviroseal ProctorWrap RW Residential Wall — Installation Guide



Key points:

1. It is "good practice" for the membrane 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.
2. Adequate provision for the drainage, absorption or diffusion of moisture is required to ensure that moisture is not left trapped between the Enviroseal ProctorWrap RW and the external cladding. This is especially important for vapour tight or non absorbent claddings such as metal.
3. Care should be taken when installing bulk insulation so that this does not restrict drainage within the cavity.
4. Upper layers should overlap lower layers to ensure water is always shed towards the outside of the membrane and building.
5. 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.
6. If the membrane is used to provide a continuous air tight layer, all overlaps should be sealed with Enviroseal ProctorWrap HighTack Tape.
7. Follow installation manuals from cladding manufacturers and consult the supplier where advice is contradictory.