

# Bradford® Enviroseal® Aero™

Refer to product table below for applicable product codes covered by this document

Issue B

## Product Type & Application

Bradford® Enviroseal® Aero™ is a Class 4 vapour permeable, air and water barrier membrane. It is rated as Light Wall Duty and is constructed from a non-reflective, non-conductive spun bond material.

## Compliance with the NCC

For use in Australia, when correctly specified and installed, this pliable building membrane:

### NCC 2025

- **Condensation Control** - Meets the requirements of NCC 2025 Volume 1 F8D3, ABCB Housing Provisions Standard 10.8.1 for pliable building membranes or sarking-type materials through compliance with AS 4200.1.
- **Non- Combustible Sarking-Type Material Exemption** - This product may be used in accordance with the non-combustible sarking-type material exemption stated in NCC 2025 Volume 1 C2D10(6)(f) and NCC 2025 Volume 2 H3D2(1)(f) – it does not exceed 1mm in thickness and has a Flammability Index  $\leq 5$ .
- **BAL and Fire Hazard Properties** - Where sarking is required by AS 3959 for construction of buildings in bushfire-prone regions BAL 12.5-FZ, this product meets the requirements of section 3.10. It also meets the fire hazard property requirements for sarking-type materials in all locations except exposed installations in fire control rooms or fire-isolated exits, in NCC 2025 Volume 1 S7C7. The product meets these requirements by having a flammability index  $\leq 5$ .

### NCC 2022

- **Condensation Control** - Meets the requirements of NCC 2022 Volume 1 Amend. 2 F8D3, ABCB Housing Provisions Standard 2022 Amend. 2 10.8.1 for pliable building membranes through compliance with AS 4200.1.
- **Non- Combustible Sarking-Type Material Exemption** - This product may be used in accordance with the non-combustible sarking-type material exemption stated in NCC 2022 Volume 1 Amend. 2 C2D10(6)(f) and NCC 2022 Volume 2 Amend. 2 H3D2(1)(f) – it does not exceed 1mm in thickness and has a Flammability Index  $\leq 5$ .
- **BAL and Fire Hazard Properties** - Where sarking is required by AS 3959 for construction of buildings in bushfire-prone regions BAL 12.5-FZ, this product meets the requirements of section 3.10. It also meets the fire hazard property requirements for sarking-type materials in all locations except exposed installations in fire control rooms or fire-isolated exits, in NCC 2022 Volume 1 Amend. 2 S7C7. The product meets these requirements by having a flammability index  $\leq 5$ .

## Compliance with the NCC cont.

### NCC 2019

- **Condensation Control** - Meets the requirements of the NCC 2019 Volume 1 Amend. 1 F6.2(a), NCC 2019 Volume 2 Amend. 1 3.8.7.2(a) for pliable building membranes through compliance with AS 4200.1.
- **Non- Combustible Sarking-Type Material Exemption** - This product may be used in accordance with the non-combustible sarking-type material exemption stated in NCC 2019 Volume 1 Amend. 1 C1.9(e)(vi) and Volume 2 Amend. 1 3.7.1.1(f) – it does not exceed 1mm in thickness and has a Flammability Index  $\leq 5$ .
- **BAL and Fire Hazard Properties** - Where sarking is required by AS 3959 for construction of buildings in bushfire-prone regions BAL 12.5-FZ, this product meets the requirements of section 3.10. It also meets the fire hazard property requirements for sarking-type materials in all locations except exposed installations in fire control rooms or fire-isolated exits, in NCC 2019 Volume 1 Amend. 1 Specification C1.10. The product meets these requirements by having a flammability index  $\leq 5$ .

## Evidence of Suitability

- Testing to AS 4200.1 across the following reports-
  - AWTa Report 24-005122 – *Resistance to Dry Delamination.*
  - AWTa Report 24-005122 – *Resistance to Wet Delamination.*
  - AWTa Report 24-005122 – *Moisture Shrinkage.*
  - Opal Report 29528 – *Folding Endurance.*
  - AWTa Report 24-005122 - *Electrical Conductivity.*
  - AWTa NATA Report 24-005122 – *Burst Strength.*
  - AWTa NATA Report 24-005122 – *Edge Tearing.*
  - R&D Services Report RD25047 – *Vapour Control Classification.*
  - AWTa Report 24-005122 – *Water Control Classification.*
  - CSR Lab NATA Report NR-22202 – *Flammability Classification.*
  - Opal Report 29528 – *Air Control Classification.*
  - AWTa Report 24-005122 – *Thickness.*

## Enviroseal® Aero™

### Limitations of Use

- **IMPORTANT:** Do Not Modify This Product: Compliance with the evidence of suitability data referenced in this document is only achieved by the product or configuration listed in this PTS.
- This product is not intended for use as a roof sarking.
- Not suitable for use in tropical NCC Climate Zone 1 under NCC 2025. Not recommended for use in Climate Zone 1 under NCC 2022 or 2019.
- This product does not have a Group Number in accordance with AS ISO 9705 and AS 5637.1 (NCC 2019 Volume 1 Amend. 1 Specification C1.10 Clause 4, NCC 2022 Volume 1 Amend. 2 S7C4, NCC 2025 Volume 1 S7C4) and is not suitable as an exposed internal wall and ceiling lining.
- This product does not provide a reflective R-value.
- This product has not been tested for pressure equalised façade applications.
- This product is not designed to withstand prolonged exposure to the elements – accordingly, the exterior cladding should be installed within 6 weeks. Products exposed during this period should be inspected for damage and repaired or replaced prior to installation of the exterior cladding to comply with the Product Warranty. Products exposed for longer than the recommended periods will not be covered by the Product Warranty.
- Additional mechanical fasteners should be considered for products exposed to harsh weather conditions prior to cladding.
- Products exposed to harsh weather conditions prior to cladding should be inspected for damage and replaced or repaired to ensure compliance with the product warranty.
- Prior to cladding, it is good practice to protect this product from UV exposure and harsh weather conditions which may cause damage.
- This product should not come into contact with wet concrete, or alkaline materials.
- This product is not suitable for submersion in water or continuous contact with soil.

### Conditions of Storage & Maintenance

- Store in the original packaging in a cool, dry area, away from UV light (direct sunlight).
- Do not pressure clean or use mineral based cleaners on this product.

Refer to the product SDS at [csrbradford.com.au](https://csrbradford.com.au) for more information.

### Specific Design or Installation Instructions

- Isolate power before installation.
- **Application Suitability:** Suitable for installation on the exterior side of the building frame of all wall construction types in NCC Climate Zones 2 to 8. Always check cladding manufacturer's guidance to confirm compatibility and refer to the Condensation Risk Consideration section on this document for further guidance.
- This product is suitable for brick veneer or lightweight cladding construction where the permeability Class is compatible with the wall cladding manufacturer's recommendation.
- Where direct fix cladding and/or the profile of the cladding reduces drainage and drying, the incorporation of a cavity for drainage and drying is recommended.
- Recommended for use on framed walls that provide membrane support at no greater than 600mm centres. Please refer to Enviroseal HTS or HTS-IT Product Technical Statement for applications having support exceeding 600mm centres.
- Where this product is used with OSB, plywood or other supporting materials it is recommended that suitable ventilation is provided above or below the assembly to manage condensation risk.
- When installed for vapour and/or air control, this product should be sealed at overlaps (minimum 50mm), end laps, discontinuities and penetrations by suitable means such as heat and moisture resistant adhesive tape.
- When installed for water control, this product must have overlaps of minimum 150mm, or 50mm and be taped on the exterior face.
- Improved water control at vertical joints can be achieved by sealing overlaps, end laps, discontinuities and penetrations by suitable means such as heat and moisture resistant adhesive tape with a minimum 50mm overlap.
- Always follow the installation instructions in AS 4200.2, and those available on the Bradford website. For inclusion in BAL (Bushfire Attack Level) classified buildings, additionally adhere to the installation requirements of AS 3959.
- To maintain the water barrier properties of the material it should not be punctured, creased, crushed, sharply folded or dragged over the building structure during installation.
- **Condensation Risk Consideration:** As there are many factors which can influence condensation risk it is highly recommended that designers undertake a hygrothermal analysis of the building design to further reduce condensation risk.

For general installation guidance refer to the product installation guide at [csrbradford.com.au](https://csrbradford.com.au)

## Enviroseal® Aero™

### Applicable Product Codes

| PRODUCT NAME      | WIDTH (mm) | LENGTH (m) | m <sup>2</sup> PER ROLL | WEIGHT (kg) | PRODUCT CODE |
|-------------------|------------|------------|-------------------------|-------------|--------------|
| Enviroseal® Aero™ | 1350       | 30         | 40.5                    | 4.05        | 488644       |
| Enviroseal® Aero™ | 1500       | 30         | 45                      | 4.50        | 488650       |

### Additional Product Data - AS 4200.1

|                                                            |                          |                   |
|------------------------------------------------------------|--------------------------|-------------------|
| Duty Classification (AS 4200.1)                            | Light Wall               |                   |
| Burst Strength (AS 2001.2.19 and AS 4200.1)                | ≥ 200 N                  |                   |
| Edge Tear Resistance (TAPPI T470 and AS 4200.1)            | ≥ 45 N                   | Machine Direction |
|                                                            | ≥ 45 N                   | Lateral Direction |
| Folding Endurance (AS 1301.423 and AS 4200.1)              | Pass                     |                   |
| Water Control Classification (AS/NZS 4201.4 and AS 4200.1) | Water Barrier            |                   |
| Vapour Control Classification (ASTM E96 and AS 4200.1)     | Class 4 Vapour Permeable |                   |
| Air Control Classification (ISO 5636-5 and AS 4200.1)      | Air Barrier              |                   |
| Emittance Classification (AS/NZS 4201.5 and AS 4200.1)     | Non-Reflective, 0.9      | Inward Facing     |
|                                                            | Non-Reflective, 0.9      | Outward Facing    |
| Flammability Index (AS 1530.2 and AS 4200.1)               | ≤ 5 (Low)                |                   |
| Electrical Conductivity (AS/NZS 3100 Mod. and AS 4200.1)   | Non-Conductive           |                   |
| Resistance to Dry Delamination (AS/NZS 4201.1)             | Pass                     |                   |
| Resistance to Wet Delamination (AS/NZS 4201.2)             | Pass                     |                   |
| Moisture Shrinkage (AS/NZS 4201.3 and AS 4200.1)           | ≤ 0.5 %                  |                   |
| Thickness                                                  | < 1.0 mm                 |                   |