

Enviroseal® RW

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

Issue **E**

Product Type & Application

Enviroseal® RW 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 2022

- **Condensation Control** - Meets the requirements of NCC 2022 Volume 1 F8D3, ABCB Housing Provisions Standard 2022 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 C2D10(6)(f) and NCC 2022 Volume 2 H3D2(1)(f) – it does not exceed 1mm in thickness and has a Flammability Index ≤5.
- **Non- Combustible Sarking-Type Material Exemption** - The integrated adhesive component of the product has not been tested to AS1530.2.
- **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 S7C7. The product meets these requirements by having a flammability index ≤5.

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 ≤5.
- **Non- Combustible Sarking-Type Material Exemption** - The integrated adhesive component of the product has not been tested to AS1530.2.

Compliance with the NCC cont.

NCC 2019 cont.

- **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 ≤5.

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.
- 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 S7C4) and is not suitable as an exposed internal wall and ceiling lining.
- This product does not provide a reflective R-value.
- 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 has not been tested for pressure equalised façade applications.
- 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.

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Specific Design or Installation Instructions

- Isolate power before installation.
- **Application Suitability:** Suitable for installation on the exterior side of the building frame of all 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 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.
- 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.
- 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.
- 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.
- 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.
- 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 Bradfordinsulation.com.au

Evidence of Suitability

Testing to AS/NZS 4200.1 across the following reports-

- AWTA Report 20-002661 – *Resistance to Dry Delamination.*
- AWTA Report 20-002662 – *Resistance to Wet Delamination.*
- AWTA Report 20-002663 – *Moisture Shrinkage.*
- SCION Report 33876587 – *Folding Endurance.*
- AWTA NATA Report 20-002659 – *Burst Strength.*
- AWTA NATA Report 20-002660 – *Edge Tearing.*
- AWTA Report 20-005779 - *Electrical Conductivity.*
- AWTA NATA Report 19-000954 – *Vapour Control Classification.*
- AWTA Report 20-002664 – *Water Control Classification.*
- AWTA NATA Report 22-001559 – *Flammability Classification.*
- SGS Report SGS-IPS 00736-18-B – *Air Control Classification.*
- CSR Lab Report R-20078 – *Thickness.*

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 SUIS/MSDS at Bradfordinsulation.com.au for more information.

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Applicable Product Codes

PRODUCT NAME	WIDTH (mm)	LENGTH (m)	m ² PER ROLL	WEIGHT (kg)	PRODUCT CODE
Enviroseal RW	1500	30	45	4.6	167641
Enviroseal RW	1500	50	75	7.9	118153
Enviroseal RW	2750	25	68.75	8.5	138628
Enviroseal RW	3000	25	75	9.5	155884
Enviroseal RW-IT	1500	50	75	7.9	165532

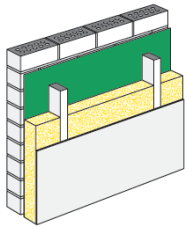
Additional Product Data - AS 4200.1

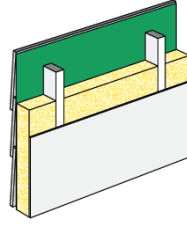
Duty Classification (AS/NZS 4200.1)	Light Wall	
Burst Strength (AS/NZS 4200.1 and AS 2001.2.19)	≥ 200 N	
Edge Tear Resistance (AS/NZS 4200.1 and TAPPI T470)	≥ 45 N	Machine Direction
	≥ 45 N	Lateral Direction
Water Control Classification (AS/NZS 4201.4)	Water Barrier	
Vapour Control Classification (ASTM E96)	Class 4 Vapour Permeable	
Air Control Classification (ISO 5636-5)	Air Barrier	
Emittance Classification (AS/NZS 4200.1 and AS/NZS 4201.5)	Non-Reflective, 0.9	Inward Facing
	Non-Reflective, 0.9	Outward Facing
Flammability Index (AS 1530.2)	≤ 5 (Low)	
Electrical Conductivity	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)	≤ 0.5 %	
Thickness	< 1.0 mm	

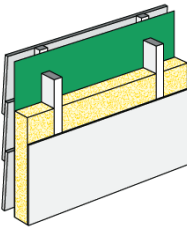
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Application Tables

Valid for NCC 2016 Volumes 1 & 2, and NCC 2019 Volume 2

	Brick Veneer Wall	
	Insulation	
	R2.5	
	Summer	Winter
	R_T 3.0	R_T 3.2

	Lightweight Clad (Direct Fix)	
	Insulation	
	R2.5	
	Summer	Winter
	R_T 2.6	R_T 2.9

	Lightweight Clad (Battened)	
	Insulation	
	R2.5	
	Summer	Winter
	R_T 2.8	R_T 3.1

R-Value Assumptions

Product performance is calculated in accordance with AS/NZS 4859.2, and the stated thermal performance is the depicted application's Total R-Value. The contribution of this product to the Total R-Value depends upon installation and environmental conditions and will be reduced in those cavities which are ventilated. No thermal bridging is considered in these calculations.

Calculations are based upon:

- A temperature difference of 6°C for heat flow out and 12°C for heat flow in.
- Reflective surface emittance of ≤ 0.05, non-reflective surface emittance of ≥ 0.90.