

Enviroseal[®] RW

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

Issue **B**

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:

- **Weatherproofing and Condensation Control** - Meets the requirements of the NCC 2019 Volume 1 parts F1.6, F6.2(a)(i) and (iii), Volume 2 parts 3.5.2.4(b), 3.8.7.2(a)(i) and (iii), and all State-prescribed variations, through compliance with AS/NZS 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 Section C1.9(e)(vi) and Volume 2 Section 3.7.1.1(f) – it does not exceed 1mm in thickness and has a Flammability Index ≤5.
- **BAL and Fire Hazard Properties** - Meets the requirements of sarking for construction of buildings in bushfire-prone regions BAL 12.5-FZ, as per AS 3959, section 3.10; and 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 Specification C1.10.

Limitations of Use

- This product is not intended for use as a roof sarking.
- Not suitable for use in tropical NCC Climate Zone 1.
- When used independently this product is not suitable for use as an exposed wall or ceiling lining and does not achieve a Group Number in accordance with AS ISO 9705 and AS 5637.1 (NCC 2019 Volume 1, Specification C1.10 Clause 4). For access to CSR-manufactured product combinations that achieve Group Numbers, refer to faced-Glasswool Product Technical Statements.
- This product does not provide a reflective R-value.
- This product is not designed to withstand prolonged, direct exposure to the elements - accordingly, the exterior cladding should be installed without delay. Products exposed to harsh weather conditions, or for more than 6 weeks in wall applications should be inspected for damage prior to installation of the exterior cladding. Damaged product should be repaired or replaced to comply with the product warranty.
- This product should not come into contact with wet concrete, or alkaline materials.

Specific Design or Installation Instructions

- Isolate power before installation.
- **Application Suitability - Cavity & Lightweight Construction in NCC Climate Zones 2 to 8:** 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. Where possible, the incorporation of a cavity for drainage and drying is recommended.
- This product is suitable for brick veneer or lightweight cladding construction where the permeability Class is compatible with the wall cladding manufacturer's recommendation.
- 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 control, the product should be continuously sealed at all discontinuities, end laps, joints and penetrations by suitable means such as heat and moisture resistant adhesive tape.
- When installed as an air barrier, the product should be sealed at overlaps, end laps, discontinuities and penetrations by suitable means such as heat and moisture resistant adhesive tape.
- 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 Bradfordinsulation.com.au

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Evidence of Suitability

- Testing to AS/NZS 4200.1 across the following reports-
 - AWTA Report 7-588281-NN – *Resistance to Dry Delamination.*
 - AWTA Report 7-588281-NN – *Resistance to Wet Delamination.*
 - AWTA Report 7-588281-NN – *Moisture Shrinkage.*
 - SCION Report 33876587 – *Folding Endurance.*
 - AWTA Report 7-588281-NN – *Burst Strength.*
 - AWTA Report 7-588281-NN – *Edge Tearing.*
 - AWTA Report 20-005779 – *Electrical Conductivity.*
 - AWTA Report 7-586126-MN – *Vapour Control Classification.*
 - AWTA Report 7-586126-MN – *Water Control Classification.*
 - AWTA NATA Report 17-000553 – *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.

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

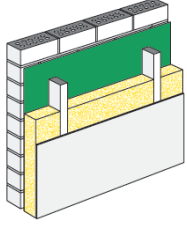
Additional Product Data - AS/NZS 4200.1

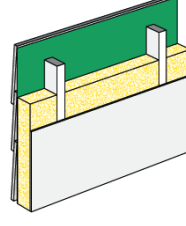
Duty Classification (AS/NZS 4200.1)	Light Wall	
Burst Strength (AS/NZS 4200.1 and AS 2001.2.19)	≥ 200 N	
Edge Tear Resistance (AS/NZS 4200.1 and TAPPI T470)	≥ 45 N	Machine Direction
	≥ 45 N	Lateral Direction
Water Control Classification (AS/NZS 4201.4)	Water Barrier	
Vapour Control Classification (ASTM 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 %	
Nominal Thickness	< 1.0 mm	

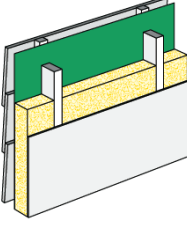
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Application Tables

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 .