Bradford™

Technical Datasheet

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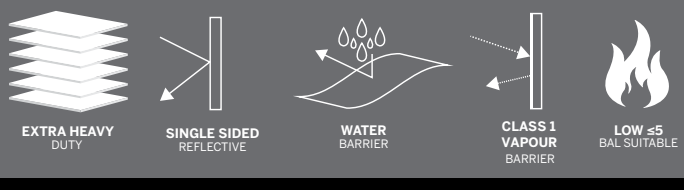
Revision Level A

THERMOSEAL RESIWRAP

DESCRIPTION: Extra Heavy Duty, Single Sided Reflective Wall Wrap / Roof Sarking
SUITABILITY: Residential Metal Roof and Brick Veneer Walls



IMPORTANT INFORMATION

- This product is only recommended for the applications listed in this datasheet unless advised otherwise by an official Bradford technical representative.
- This product is a vapour barrier and is not recommended for use behind lightweight cladding except in tropical climate zone 1 - its suitability should be checked with the cladding manufacturer prior to application.
- This product is not recommended for use with concrete, terracotta or slate tile roofs.
- This product is not designed to withstand prolonged exposure to UV or weather. Once installed the exterior wall or roof must be applied as soon as possible.
- Prior to installation, this product should be stored in a cool dry place away from sunlight, and should not come into contact with wet concrete or alkaline based materials.
- This product contains aluminium foil which conducts electricity. To avoid electrocution, care should be taken to ensure that this product or conductive fasteners used to secure this product, do not come into contact or close proximity with electrical wiring during installation or use.
- To maintain the water barrier property of this material, it should not be creased, crushed or sharply folded during installation.

PRODUCT DESCRIPTION

Bradford Thermoseal™ Resiwrap is an Extra Heavy Duty aluminium foil and polyweave wall wrap and roof sarking laminate containing a fire retardant hot melt adhesive.

- This product meets the requirements of the AS/NZS 4200.1 and is suitable for use in Australian residential applications.

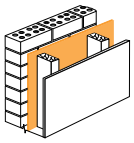
CLIMATE ZONE

This product is recommended for use in tropical to cool climate zones where there are lower levels of insulation used in the wall or ceiling cavity and vapour and water barrier properties are required.

CLASSIFICATION

This product meets the requirements of AS/NZS 4200.1		
CRITERIA		RESULT
Product Identifier		ResiWrap
Duty Classification (AS/NZS 4200.1)		Extra Heavy Duty
Tensile Strength (AS/NZS 1301.448s)	Machine	≥ 13
	Lateral	≥ 10.5
Edge Tear Resistance (TAPPI T470)	Machine	≥ 90
	Lateral	≥ 90
Water Control Classification (AS/NZS 4201.4)		Water Barrier
Vapour Classification (ASTM E96)		Class 1 Vapour Barrier
Vapour Permeability (ASTM E96)		< 0.0022 µg/N.s
Emissivity (AS 4201.5)	Inward Facing	Reflective (0.05)
	Outward Facing	Non-Reflective (0.9)
Flammability Index (AS 1530.2)		≤ 5 (Low)
Electrical Conductivity (AS/NZS 3100)		Conductive
Resistance to Dry Delamination (AS/NZS 4201.1)		Pass
Resistance to Wet Delamination (AS/NZS 4201.2)		Pass
Shrinkage (AS/NZS 4201.3)		≤ 0.5%
Nominal Thickness		<1.0 mm
Classifications in accordance with AS/NZS 4200.1. This product should be installed in accordance with AS 4200.2		

APPLICATION TABLES



Brick Veneer Wall	
Summer	Winter
R_T 1.2	R_T 1.3

Pitched Metal Roof Non-Ventilated Roof Space	
Summer	Winter
R_T 1.5	R_T 0.97*

*Not suitable for slate roof tiles.

Weather Exposure: This product is a secondary sarking material and is not designed to withstand prolonged direct exposure to the elements - accordingly, the exterior cladding should be installed without delay. Product exposed to harsh weather conditions, or for more than 6 weeks for wall or 2 weeks for roof applications, should be inspected for damage prior to installation of the exterior cladding and damaged product should be repaired or replaced to comply with the product warranty.

* This product is only recommended for the applications listed in this datasheet unless advised otherwise by an official Bradford technical respresentative.

APPLICATION DETAIL

Bradford Thermoseal™ Resiwrap is suitable behind brick veneer and underneath metal sheet roofs. The reflective aluminium side should face inward towards the internal roof cavity and the non-reflective polymeric side should face outward towards the external roof. To achieve thermal performance the reflective surface must be facing a minimum 100mm air cavity in the roof space.

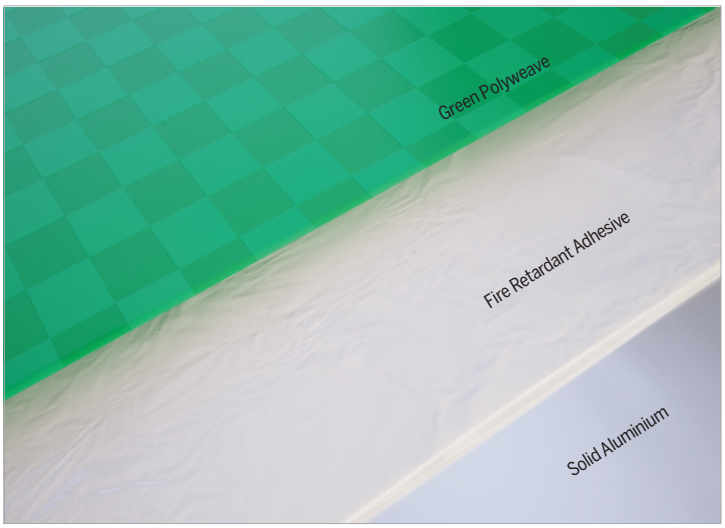
- This product is suitable for use in BAL regions 12.5 to FZ in accordance with AS 3959.

For more information on how to install this product correctly see the Bradford Wall Wrap and/or Roof Sarking Installation guide at bradfordinsulation.com.au

PRODUCT DIMENSIONS

PRODUCT NAME	WIDTH (mm)	LENGTH (m)	m² PER ROLL	WEIGHT (kg)	PRODUCT CODE
ResiWrap	1350	30	40.5	7.83	108879
ResiWrap	1350	60	81	15.66	108004
ResiWrap	1500	30	45	8.59	120121

PRODUCT CONSTRUCTION



CONDENSATION CONSIDERATION

Please consider condensation risk prior to use. This product is classified as a Vapour Barrier and when positioned on the cold side of the construction it may increase the risk of condensation entrapment within the structure. To reduce this risk, particularly in cooler climate zones, consider the use of the Bradford Enviroseal vapour permeable range of products.

R-VALUE ASSUMPTIONS

Product performance is calculated in accordance with AS/NZS 4859.1 and the stated thermal performance is the depicted applications 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 that are ventilated. In brick veneer wall applications, a minimum brick cavity air gap of 40mm and stud cavity air gap of 90mm is required to contribute to thermal performance. Addition of bulk insulation to the wall stud cavity diminishes the reflective air gap R-Value contribution of this product.

- Calculations are based upon a temperature difference of 6°C for heat flow out and 12°C for heat flow in.
- Emittance of reflective surface ≤0.05 and non-reflective surface ≥0.90.