

# THERMOSEAL™ WALL BREATHER HD

## General Description

Bradford Thermoseal™ Wall Breather HD is a heavy duty, medium vapour barrier membrane for installation behind brick veneer and battened lightweight (see important note below) cladding systems such as timber, fibre cement, weatherboard and metal cladding facades. The product consists of reinforced, aluminium foil laminated with fire retardant adhesive to a tear resistant woven polymeric fabric. Thermoseal Wall Breather HD is micro-pierced for applications requiring air transmission between each side of the membrane and provides an inward facing reflective air-gap R-Value when positioned adjacent to a still air cavity greater than 25mm. The product has a green backing to reduce glare during installation.

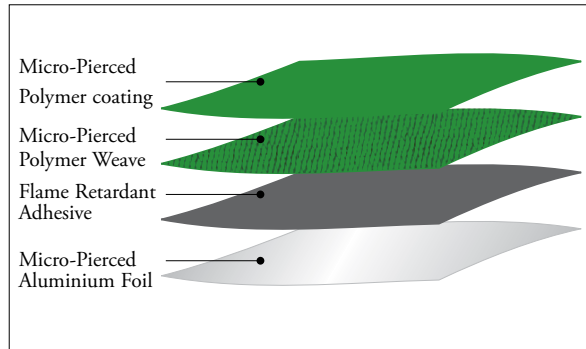
**Important Note:** Wall Breather HD allows air transfer between each side of the membrane and is 'unclassified' as a water barrier – for lightweight clad applications; please refer to the cladding material manufacturers recommendations prior to use to assess its suitability.

Key product benefits:

- Provides a reflective air-gap R-Value
- Allows air transfer between each side of the membrane
- Tough and lightweight for easy installation

## Applications

Bradford Thermoseal Wall Breather HD is suitable for use as an external wall wrap in residential applications where air transfer between each side of the membrane is required to facilitate drying or ventilation of the cavity. Wall Breather HD is also designed to contribute a reflective air-gap R-Value



when installed adjacent to a void in the internal stud wall cavity. It is a tough membrane and is suitable for use in applications where higher levels of tear resistance are required.

**Application Consideration:** Due to the air transfer properties of this product, it is not recommended for condensation control in colder climate applications in conjunction with higher levels of insulation - please contact CSR Bradford Technical for advice in these climate zones or consider using the Enviroseal range of vapour permeable products.

## Installation Guidance

Thermoseal Wall Breather HD will perform in normal building applications when installed in accordance with AS/NZS4200.2:1994 Pliable Building Membranes & Underlays, Part2 Installation Requirements.

1. This product should be installed with the antiglare or non-reflective surface facing outwards.
2. All proper safety measures should be taken during installation of Thermoseal, all relevant OHS and statutory regulations must be followed.

**Installation Note:** As a secondary sarking material, this product is not designed to withstand prolonged direct exposure to the elements. Accordingly, upon application of this product to the building, the cladding should be installed without delay.

## Standard Sizes & Packaging

Width(mm)	Length(m)	m <sup>2</sup> per roll	Rolls per pallet	Product code
1350	30	41	52	121037
1350	60	81	50	118471

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## Health & Safety

Information on any known health risks on our products and how to handle them safely is detailed on our Material Safety Data Sheets which are available on our website.

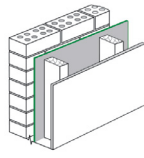
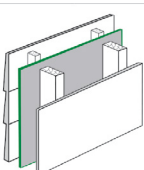
**Warning:** Thermoseal Wall Breather HD contains aluminium foil which conducts electricity. To avoid electrocution, care should be taken to ensure Thermoseal products do not come into contact with electrical wiring during installation or use.

## Thermal Performance

This product complies with the requirements of AS/NZS4859.1 – stated thermal performance is the application's Total R-Value.

1. The contribution of this product to Total R-Value depends on installation and environmental conditions.
2. In lightweight clad wall applications, a minimum cladding air-gap of 25mm and stud cavity air-gap of 90mm is required to contribute to thermal performance.
3. In brick veneer wall applications, a minimum brick cavity air-gap of 40mm and stud cavity air-gap of 90mm is

4. required to contribute to thermal performance.
4. The R-Value will be reduced in those cavities that are ventilated.
5. Temperature difference 6 °C for heat flow out and 12 °C for heat flow in.
6. Emittance of reflective foil surfaces 0.05 or less.
7. Addition of bulk insulation to the wall stud cavity diminishes the reflective air-gap contribution of this product.

	<b>Brick Veneer Wall</b>	
	<b>Total R-Values</b>	
	<b>Summer</b>	<b>Winter</b>
	R <sub>T</sub> 1.2	R <sub>T</sub> 1.3
	<b>Lightweight Clad Wall</b>	
	<b>Total R-Values</b>	
	<b>Summer</b>	<b>Winter</b>
	R <sub>T</sub> 1.0	R <sub>T</sub> 1.1

## Classifications

Duty	Table 1 AS/NZS 4200.1:1994	Heavy
Vapour Barrier	ASTM E96	Medium
Emittance	AS/NZS 4201.5	Reflective
Water Barrier	AS/NZS 4201.4	Unclassified
Absorbency	AS/NZS 4201.6	Unclassified
Shrinkage	AS/NZ 4201.3	≤0.5%
Resistance to Dry De-Lamination	AS/NZ 4201.1	Pass
Resistance to Wet De-Lamination	AS/NZ 4201.2	Pass
<b>Tensile Strength</b>		
Machine Direction(kN/m)		Min 7.5
Lateral Direction(kN/m)		Min 4.5
<b>Edge Tear Resistance</b>		
Machine Direction (N)	TAPPI T470	Min 45
Lateral Direction (N)		Min 45
<b>Fire Resistance</b>		
Flammability Index	AS 1530 Part 2	Low (≤5)
Exposure	Prior to the application of cladding	4 weeks