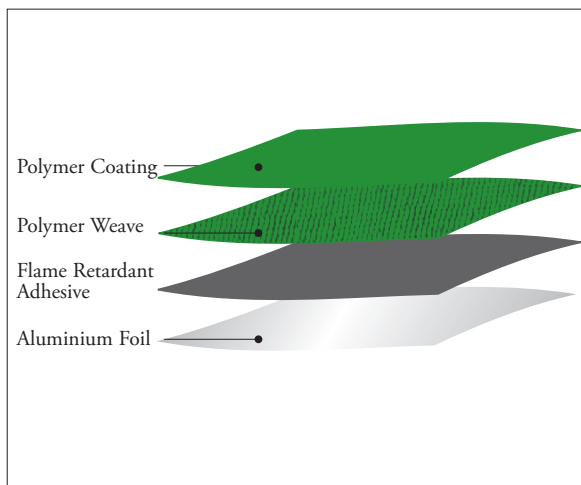


## ENVIROSEAL™ ROOF TILE SAFETY



### General Description

Bradford Enviroseal™ Roof Tile Safety is an extra heavy duty sarking for tiled residential roofs with unsurpassed tensile strength providing ultimate protection against heat, moisture, wind, and hail penetrations, as well as providing fall arrest/safety for the installer, however is not suitable for use under metal deck and slate tile roofing.

### Product Description

Bradford Enviroseal Roof Tile Safety is an extra heavy duty radiant barrier consisting of a layer of reinforced aluminium foil laminate, with fire retardant adhesive to a super strong high tensile, and high tear strength woven polymeric fabric. It is suitable for use in bush fire prone areas, high wind and storm prone areas and has a green backing to eliminate glare during installation.

### Applications

Bradford Enviroseal Roof Tile Safety is a pliable foil insulation with extra superior tensile strength and tear resistance designed for use as extra heavy duty sarking under tiled roofs and protection against fear of falling through the sarking. Enviroseal Roof Tile Safety is the ideal barricade against dirt, dust, draughts and wind driven rain water as well as providing a fire retardant barrier to help protect homes from burning ambers generated from a bushfire. It is ideal for use under roof tiles, especially where the safety of the installer is important. It eliminates the need for safety mesh at spans of 600mm & 900mm as per AS/NZS 4040.4 (modified) certified by AFIMA. Enviroseal Roof Tile Safety is recognised by some state WorkCover code of practice to be a safeguard against the risks of falling

through an incomplete or fragile roof, or openings in the roof. Enviroseal's integral thermal insulation properties also contribute to keeping homes warmer in winter and cooler in summer. Additionally, installation of Enviroseal Roof Tile Safety will add to the overall thermal performance of the roof when a clear airspace of at least 20mm or more is provided at the reflective side of the foil face. Reducing glare from the external face of a building is an important site construction and road safety requirement. Enviroseal Roof Tile Safety has a green backing which is installed to the outside of the building to reduce reflection to acceptable levels.

### Benefits

- Pliable yet extremely strong and easy to use
- Ideal for under tiled cement and terracotta roof
- Provides ongoing physical protection against the elements such as burning ambers generated from a bushfire and also reduces risk of hail entering the roof space
- Reduces temperature variations and wind driven rain water inside the home
- Increases energy efficiency
- Recommended for coastal areas; and
- Improves homeowner comfort by weatherising the home

### Health & Safety

Information on any known health risks on our products and how to handle them safely is detailed on our website [www.bradfordinsulation.com.au](http://www.bradfordinsulation.com.au). Additional information is listed in the Material Safety Data Sheets also available on our website.

### Standard Sizes & Packaging

Width(mm)	Length(m)	m <sup>2</sup> per roll	Rolls per pallet	Product code
1500	30	45	50	27060

### Durability

Bradford Enviroseal Roof Tile Safety is a general purpose Roof Sarking product and is guaranteed to be free from manufacturing defects. Bradford Enviroseal™ Roof Tile Safety will perform in normal building applications when installed in accordance with AS/NZS 4200.2:1994 Pliable Building Membranes and Underlay's, Part 2 Installation

Requirements including any special notes detailed in this data sheet or those found in Bradfords design guide documents. Please note, all work must be designed and constructed in compliance with all provisions of the current Building Code of Australia, regulations and relevant standards. Being a secondary sarking

# ENVIROSEAL™ ROOF TILE SAFETY

material, Bradford Enviroseal Roof Tile Safety is not designed to withstand prolonged direct exposure to the elements. Accordingly, upon application of this product the outer roof should be installed without delay. Bradford Enviroseal™ Roof Tile Safety should be installed with the green side facing outwards. In roofing applications, CSR Bradford Insulation recommends using a minimum sag of 40mm deep between the rafters, except at the eaves. To ensure effective performance and satisfactory lifespan, radiant barriers such as Enviroseal must be installed with a minimum airspace of 20mm on the reflective face. For spans equal or less than 600mm, an overlap (joint) of 150mm must be allowed for. For spans exceeding 600mm and equal to or less than 900mm, the foil must be overlapped by 300mm and a batten shall be fixed at the centre of the lap. Longitudinal joints are to overlap the span of one rafter support member. For specialised applications please refer to your nearest Bradford Insulation office.

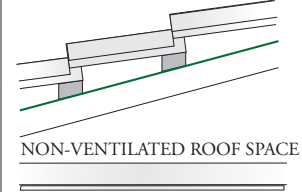
## Physical Properties

Classification in accordance with AS/NZ 4200.1 unless otherwise stated. \*\*When tested to 1530.2, it complies

to requirements set out for extreme bush fire attack category BCA clause 3.7.4.3.

## Thermal Performance

The thermal performance of reflective insulation varies according to the direction of the heat flow. The following table provides total R values for a typical roof in accordance with AS4859.1:2002 and Amendments 4.2006 Materials for the Thermal Insulation of Buildings.

	Pitched Tile Roof	
	Total R Values	
	Summer	Winter
	R1.5	R0.97

- Emittance of reflective foil surface 0.05 or less for heat flow out and 12°C for heat flow in
- EnviroSeal installed under the battens above the rafters, reflective surface facing down, sagged  $\geq 40$ mm
- Emittance of antiglare surface 0.87

## Classifications

Duty	Table 1 AS/NZS 4200.1:1994	Extra Heavy
Vapour Barrier	ASTM E96	Medium
Emittance	AS/NZS 4201.5	Reflective
Water Barrier	AS/NZS 4201.4	High
Absorbency	AS/NZS 4201.6	Unclassified
Resistance to Dry De-Lamination	AS/NZ 4201.1	Pass
Resistance to Wet De-Lamination	AS/NZ 4201.2	Pass
Shrinkage	AS/NZ 4201.3	$\leq 0.5\%$
<b>Tensile Strength</b>		
Machine Direction(kN/m)		(Min 13.0) 21.2
Lateral Direction(kN/m)		(Min 10.5) 20.2
<b>Edge Tear Resistance</b>		
Machine Direction (N)	TAPPI T470	(Min 90) 858
Lateral Direction (N)		(Min 90) 971
<b>Folding Endurance</b>		
Machine Direction	AS 1301.423	$>2.00$
Cross Direction		$>1.70$
<b>Fire Resistance</b>		
Spread Factor	AS 1530 Part 2	3
Speed Factor	AS 1530 Part 2	0
Heat Factor	AS 1530 Part 2	1
Flammability Index**	AS 1530 Part 2	4

**Bradford™**  
for smarter environments

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