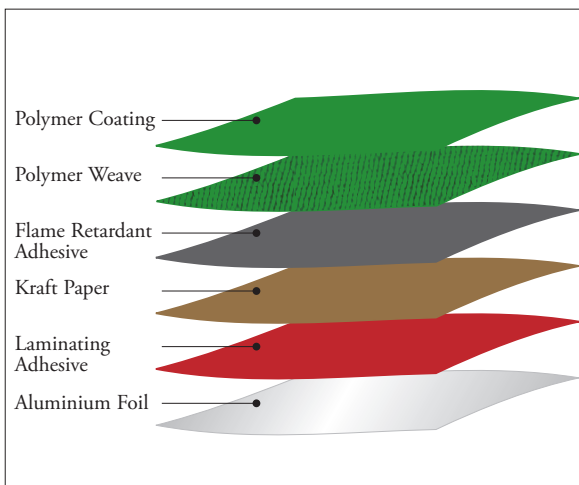


# ENVIROSEAL™ ROOF TILE PLUS



## General Description

Bradford Enviroseal™ Roof Tile Plus is a unique strong, rigid and easy to install heavy duty sarking for use under cement and terracotta tiled roof however is not suitable for use under metal deck and slate tile roofing.

## Product Description

Bradford Enviroseal Roof Tile Plus is a heavy duty radiant barrier consisting of a layer of reinforced aluminium foil laminated with fire retardant adhesive to kraft paper and a heavy duty, high tensile and tear strength woven polymeric fabric. It is an economical foil suitable for use in bush fire prone areas and has a green backing to eliminate glare during installation.

## Applications

Bradford Enviroseal Roof Tile Plus is pliable foil insulation with superior tensile strength and tear resistance designed for use as heavy duty sarking under tiled roofs. Enviroseal Roof Tile Plus is the ideal protection 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. Its additional weight and stiffness improves its handleability during installation. Enviroseal's integral thermal insulation properties also contribute to keeping homes warmer in winter and cooler in summer. Additionally, the installation of Enviroseal Roof Tile Plus 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 Plus has a green backing which is installed to the outside of the building to reduce reflection to acceptable levels.

## Benefits

- Pliable, strong and easy to use
- Ideal for under tiled cement and terracotta roof
- Provides ongoing physical protection against the elements
- Reduces temperature variations and wind driven rain water inside the home
- Protects the home from burning ambers generated from a bushfire
- 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	27308

## Durability

Bradford Enviroseal Roof Tile Plus is a general purpose Roof Sarking product and is guaranteed to be free from manufacturing defects. Bradford Enviroseal Roof Tile Plus 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 material, Bradford Enviroseal Roof Tile Plus 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 Plus 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

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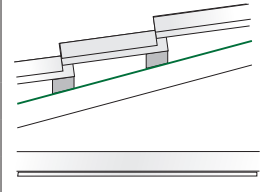
must be installed with a minimum airspace of 20mm on the reflective face. For specialised applications such as slate tiles or where specific wind loadings are required please refer to your nearest Bradford Insulation office.

## 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 typical roof application in accordance with AS4859.1:2002 and Amendments 1:2006 Materials for the Thermal Insulation of Buildings.

	<b>Pitched Tiled Roof</b>	
	<b>Total R-Values</b>	
	<b>Summer</b>	<b>Winter</b>
	$R_T 1.5$	$R_T 0.97$

- Emittance of reflective foil surfaces 0.05 or less
- Temperature difference 6°C for heat flow out and 12°C for heat flow in
- EnviroSeal installed under the battens above the rafters, reflective surface facing down, sagged  $\geq 40\text{mm}$
- Emittance of antiglare surface 0.86

## 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	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>	AS 1301.448	
Machine Direction(kN/m)		(Min 12.5) 14.9
Lateral Direction(kN/m)		(Min 7.5) 9.2
<b>Edge Tear Resistance-</b>	TAPPI T470	
Machine Direction (N)		(Min 80) 379
Lateral Direction (N)		(Min 80) 270
<b>Folding Endurance</b>	AS 1301.423	
Machine Directon		>2.00
Cross Direction		>1.70
<b>Fire Resistance</b>	AS 1530 Part 2	1
Spread Factor	AS 1530 Part 2	4
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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