

# Thermoseal Roof Tile

## RESIDENTIAL ROOF SARKING

Bradford Thermoseal<sup>™</sup> Roof Tile is an economical, pliable sarking foil that is ideal for use under cement and terracotta tiled roof, however is not suitable for use under metal sheet roofing or slate tiles.

### PRODUCT DESCRIPTION

Bradford Thermoseal Roof Tile is a pliable heavy duty sarking foil with a high tensile strength and tear resistance. Roof Tile is constructed from aluminium foil laminated with fire retardant adhesive to a heavy duty woven polymeric fabric. It is suitable for use in bush fire prone areas and has a green backing to reduce glare during installation.

### APPLICATIONS

Roof Tile improves thermal performance by reducing heat flow through the roof, helping provide a more energy efficient and comfortable home. It also reduces the ingress of wind driven dirt and rain into the roof space, helping to improve the airtightness of the building envelope which can assist in improving the energy efficiency of the home. Roof Tile is suitable for use in bush fire prone areas (BAL 12.5 to 40) where it helps protect the roof space from burning embers generated by a bush fire as prescribed in AS3959. (For information on FZ areas and full BAL systems the Bradford Bushfire Roofing Systems Design Guide should be consulted.)

### KEY BENEFITS

- Pliable, strong and easy to use
- Reduces the ingress of wind driven dust and rain
- Improves thermal performance by reducing heat flow through the roof
- Helps to protect the home from burning embers generated from a bushfire (in accordance with AS3959)

### VENTILATION & CONDENSATION

Roof space ventilation is recommended for use in conjunction with sarking to improve summer heat flow performance and assist in the management of condensation in winter. Further information on condensation management can be found on the Bradford website and in cold climates the Enviroseal range of vapour permeable products should be considered to further reduce condensation risk.

### 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 AND PACKAGING

WIDTH (mm)	LENGTH (m)	m <sup>2</sup> PER ROLL	ROLLS PER PALLET	PRODUCT CODE
1500	30	45	50	15110

Heavy duty,  
pliable,  
reflective foil  
membrane

# Thermoseal Roof Tile

## CLASSIFICATIONS

CRITERIA	REFERENCE	RESULT
Duty	Table 1 AS/NZS 4200.1:1994	Heavy
Vapour Barrier	ASTM E96	High
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	≤0.5%
Tensile Strength	AS 1301.448	
Machine Direction(kN/m)		(Min 12.5) 14.5
Lateral Direction(kN/m)		(Min 7.5) 8.8
Edge Tear Resistance-	TAPPI T470	
Machine Direction (N)		(Min 80) 523
Lateral Direction (N)		(Min 80) 320
Folding Indurance	AS 1301.423	
Machine Direction		>2.00
Cross Direction		>1.70
Fire Resistance	AS 1530 Part 2	
Spread Factor		0
Heat Factor		1
Flammability Index**		< 5 (Low)

## 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 tables provides total R values for a typical roof application in accordance with AS4859.1:2002 Materials for the Thermal Insulation of Buildings.

- Emittance of reflective foil surfaces 0.05 or less
- Foil backing: Non-reflective
- Temperature difference 6°C for heat flow in and 12°C for heat flow in
- Thermoseal installed under the battens, above the rafters, reflective surface facing down, sagged ≥40mm
- Emittance of anti-glare surface 0.86

## DURABILITY

Bradford Thermoseal Roof Tile is a general purpose roof sarking product and is guaranteed to be free from manufacturing defects. Bradford Thermoseal Roof Tile will perform in normal building applications when installed in accordance with AS/NZS 4200.2 Pliable Building Membranes and Underlay's, Part 2 Installation Requirements and any special notes detailed in this data sheet or those found in Bradford design guide/installation 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.

## 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 2 weeks, 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. Bradford Thermoseal Roof Tile should be installed with the green side facing outwards. In roofing applications, CSR Bradford recommends using a minimum sag of 40mm between the rafters to facilitate drainage, except at the eaves. To ensure effective performance and satisfactory lifespan, radiant barriers such as Thermoseal must be installed with a minimum airspace of at least 20mm. For specialised applications, please refer to your nearest Bradford office.

PITCHED TILED ROOF	TOTAL R-VALUES	
	SUMMER	WINTER
Non-ventillated roof space	R <sup>T</sup> 1.5	R <sup>T</sup> 0.9



CSR Bradford  
 Locked Bag 1345 North Ryde BC NSW 1670  
[csrbradford.com.au](http://csrbradford.com.au)  
 Email: [bradfordenquiries@csr.com.au](mailto:bradfordenquiries@csr.com.au)

For further information  
 call **1300 850 305** or  
 visit [bradfordthermoseal.com.au](http://bradfordthermoseal.com.au)



CSR Bradford is a business division of CSR Building Products Limited ABN 55 008 631 356

The contents of this brochure are copyright protected and may not be reproduced in any form without prior written consent of CSR Bradford. Recommendations and advice regarding the use of the products described in this brochure are to be taken as a guide only, and are given without liability on the part of the company or its employees. We reserve the right to change product specifications without prior notification, please refer to the CSR Bradford website for the latest revision of this document. The purchaser should independently determine the suitability of the product for the intended use and application.