

Thermoseal Roof Tile Plus

RESIDENTIAL ROOF SARKING

Bradford Thermoseal™ Roof Tile Plus is a strong and easy to install extra heavy duty roof sarking product for use under cement and terracotta tiled roofs, however it is not suitable for use under metal sheet or slate tile roofing.

PRODUCT DESCRIPTION

Roof Tile Plus is a polymeric and paper reflective foil laminate constructed with a fire retardant adhesive. High quality kraft paper and an extra heavy duty strength woven polymeric fabric are bonded to aluminum foil to form a pliable yet smooth laminate. The additional weight and stiffness improve its handleability during installation, particularly during windy conditions. Roof Tile Plus has a green backing colour which reduces glare during installation.

APPLICATIONS

Roof Tile Plus 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 Plus 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
- Ideal for coastal or windy areas where a stiffer, heavier weight sarking is required to improve ease of laying and reduce flapping.
- 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

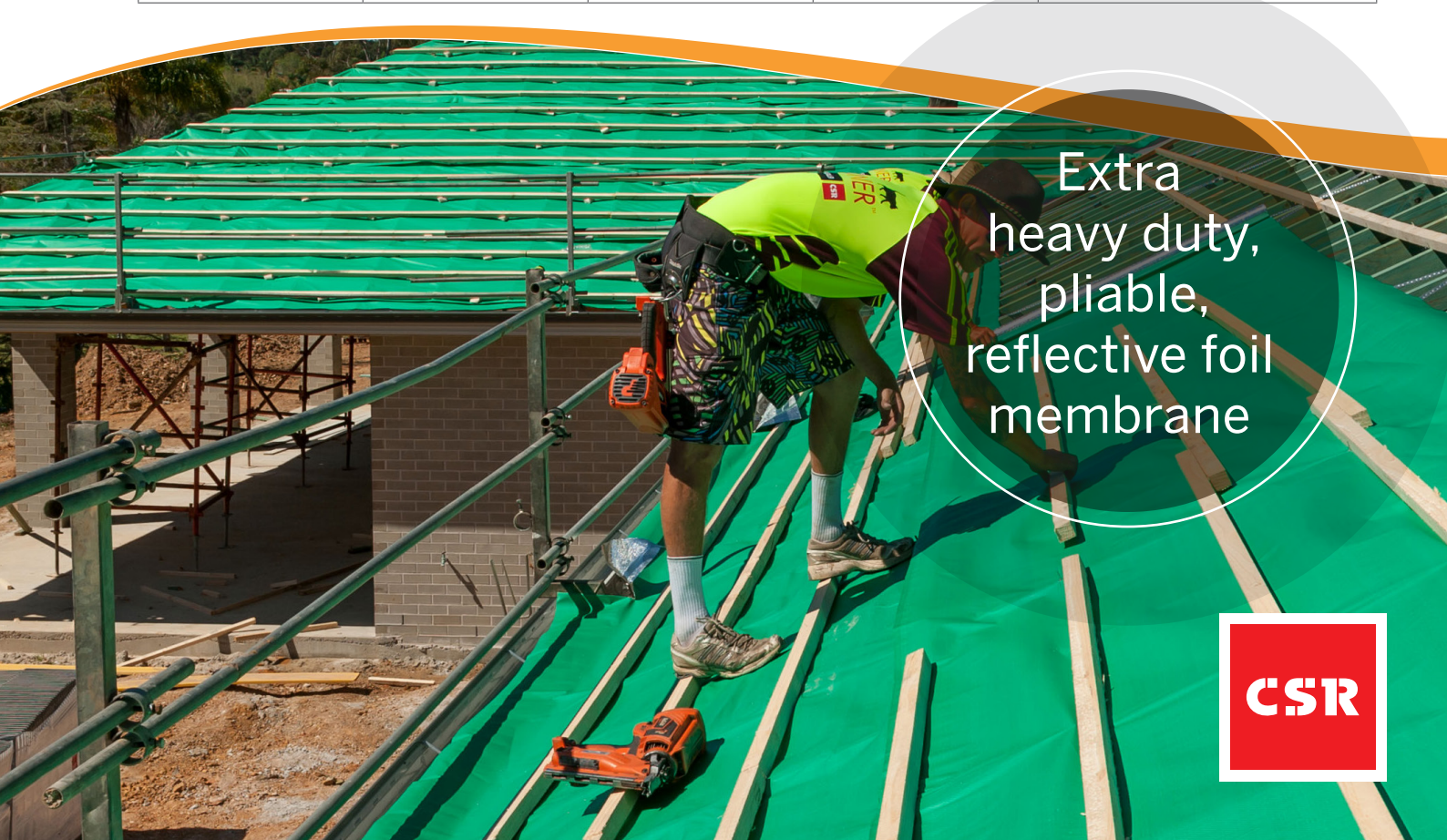
Roof space ventilation is recommended for use in conjunction with sarking to improve summer heat flow performance and assist in the management of condensation in winter. Further information on condensation management can be found on the Bradford website.

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. Additional information is listed in the Material Safety Data Sheets also available on our website.

STANDARD SIZES AND PACKAGING

WIDTH (mm)	LENGTH (m)	m ² PER ROLL	ROLLS PER PALLET	PRODUCT CODE
1500	30	45	50	27308



Extra
heavy duty,
pliable,
reflective foil
membrane

Thermoseal Roof Tile Plus

CLASSIFICATIONS

CRITERIA	REFERENCE	RESULT
Duty	Table 1 AS/NZS 4200.1:1994	Extra Heavy
Vapour Barrier	ASTM E96	High
Emittance	AS/NZS 4201.5	Reflective (≤ 0.5)
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	Pass
Shrinkage %	$\leq 0.5\%$	Pass
Tensile Strength	AS 1301.448	
Machine Direction(kN/m)	Minimum 13.0kN/m	Pass
Lateral Direction(kN/m)	Minimum 10.5kN/m	Pass
Edge Tear Resistance	TAPPI T470	
Machine Direction (N)	Minimum 90N	Pass
Lateral Direction (N)	Minimum 90N	Pass
Folding Indurance	AS 1301.423	
Machine Direction	Not less than 2.00 (i.e. $\log_{10} 100$)	Pass
Cross Direction	Not less than 1.70 (i.e. $\log_{10} 50$)	Pass
Fire Resistance	AS 1530 Part 2	
Flammability Index	< 5 (Low)	Pass

PHYSICAL PROPERTIES

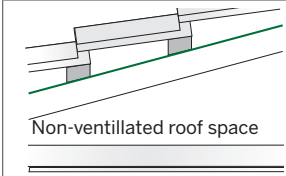
Classification in accordance with AS/NZ 4200.1 unless otherwise stated.

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 application in accordance with AS4859.1:2002 and Amendments 1:2006

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 out and 12°C for heat flow in
- Roof Tile Plus installed under the battens above the rafters, reflective surface facing down with a still air space $\geq 20\text{mm}$
- Emittance of antiglare surface 0.86

PITCHED TILED ROOF		
 Non-ventilated roof space	TOTAL R-VALUES	
	SUMMER	WINTER
	R _T 1.5	R _T 0.98

DURABILITY

Bradford Thermoseal Roof Tile Plus is a general purpose roof sarking product and is guaranteed to be free from manufacturing defects. Bradford Thermoseal Roof Tile Plus 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 Plus should be installed with the green side facing outwards. In roofing applications, CSR Bradford recommends using a 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.



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For further information
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