



# Thermal Building Blanket

Residential & Commercial  
Roofing and Under Floor Insulation



## Product Description

Tontine Thermal Building Blankets are specially formulated lightweight products manufactured from a blend of polyester fibres. Tontine Thermal Building Blankets contain a high percentage of recycled polyester fibres that are thermally bonded and manufactured to comply with AS/NZ 4859.1. Tontine Thermal Building Blanket is a non-toxic and user-friendly insulation, requiring no specific protective clothing and will not corrode or deteriorate over time. The products are generally white in colour. Physical properties and material safety data can be found on the Tontine Bonded Polyester Products MSDS.

## Applications

Tontine Thermal Building Blanket is designed to suit a wide variety of building applications, such as walls, roofs, under floors and ceilings. Tontine Thermal Building Blanket provides excellent thermal insulation in domestic and commercial applications whilst also reducing internal reverberation, rain and aircraft noise. For roofing applications it is advisable to have an aluminium foil laminated to the product, assisting in the control of condensation under metal roofs.

## Standard R-Values, Sizes and Packaging

R-Value	Nominal Thickness ( mm )	Length ( m )	Width ( mm )	M <sup>2</sup> Per Roll
R1.0	50	18	1200	21.60
R1.5	90	15	1200	18.00
R2.0	90	15	1200	18.00
R2.5	160	10	1200	12.00
R3.0	175	6.9	1200	8.28

## Available Facings

On request, Tontine Thermal Building Blanket can be supplied with vapour barrier facings such as foil laminates.

## Corrosion Resistance

Polyester Insulation has a pH close to neutral (typically pH 6-8; pH 7 is neutral), so will not cause corrosion when installed in contact with metal roofing products provided it is not contaminated from external sources.

## Fire Resistance

When tested in accordance with AS1530.3 (1999), "Early Fire Hazard Properties of Materials", the product exhibits the following characteristics:

Ignitability Index	0
Spread of Flame Index	0
Heat Evolved	0
Smoke Developed Index	0 - 3

## Moisture Resistance

Exposure to an atmosphere of 50°C and 95% relative humidity for 4 days results in less than 0.2% by vol moisture absorption.

## Maximum Service Temperature

The maximum temperature to which Tontine Thermal Building Blanket should be exposed in service is 150°C.



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## Environmental and Health Benefits

Recycled Fibre Content	80% minimum
Volatile Organic Compounds ( VOC's )	No harmful VOC's
Formaldehyde Content	Nil
Phenol Content	Nil
Ammonia Content	Nil
Ozone Depleting Potential ( ODP )	Nil
Chloride Content	Nil
Total Recyclable Content	100%

## How to Specify

The insulation material shall be Tontine Thermal Building Blanket, R1.0, R1.5, R2.0, R2.5 or R3.0 as manufactured by Tontine Insulation.

## General Installation Guide

Tontine Building Blanket is safe and easy to install in walls, under roofs, on ceilings or under floors and is easily torn or cut with a pair of industrial scissors, shears or a serated knife (brand type Swibo Knife). Off cuts can be used to fill corners, crevices or gaps, eliminating any waste. No special clothing, gloves or masks are required for installation. Due to the strength of the polyester fibre in the Tontine Building Blanket, certain roofing applications will require a special fixing screw to be used - an example being the Polyester Insulation Fasteners by Powers Fasteners or a wax tipped screw. Further information regarding the correct screw to use can be obtained from either your distributor, or Tontine Insulation. Allow up to one month for products subjected to compression packing to recover to their nominal thickness.

## FOR FURTHER INFORMATION CALL 1300 467 852 OR EMAIL [customercare@tontineinsulation.com.au](mailto:customercare@tontineinsulation.com.au)

In most cases product testing has been conducted in laboratory situation under controlled conditions. Site-measured performance may vary due to installation quality and site conditions. Thermal testing has been carried out in accordance with AS/NZS 4859.1, and acoustic testing in accordance with AS1045 or AS11191 in certified reverberation rooms. As these products are subject to constant research and development, we reserve the right to update the contents without notice. Recommendations regarding the use of products are to be taken as a guide only, and the purchaser should independently determine the suitability of a product for the intended application.

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