



Thermal Batts and Rolls

Residential Wall, Underfloor and Ceiling Insulation



Product Description

Tontine Thermal Batts and Rolls are specially formulated lightweight products manufactured from a blend of polyester fibres. Tontine Thermal Batts and Rolls contain a high percentage of recycled polyester fibres that are thermally bonded and manufactured to comply with AS/NZ 4859.1. Tontine Thermal Batts and Rolls are 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 Batts and Rolls have been designed to provide a safe and efficient form of thermal and acoustic insulation for the Australian building market. Tontine Thermal Batts and Rolls are ideal for use in walls, ceilings and under floors (choice of batts or rolls) and correctly installed will improve energy efficiency and reduce greenhouse gas emissions.

Standard R-Values for Batts, Sizes and Packaging (to fit 450mm stud centres)

R-Value	Nominal Thickness (mm)	Length (mm)	Width (mm)	Batts Per Pack	M ² Per Pack	Approx M ² Coverage
R1.5	90	1160	430	16	7.98	9.29
R2.0	90	1160	430	16	7.98	9.29
R2.5	160	1160	430	12	5.99	6.97
R3.0	175	1160	430	12	5.99	6.97
R3.5	190	1160	430	8	3.99	4.64
R4.0	200	1160	430	8	3.99	4.64
R4.5	225	1160	430	6	2.99	3.50

Standard R-Values for Batts, Sizes and Packaging (to fit 600mm stud centres)

R-Value	Nominal Thickness (mm)	Length (mm)	Width (mm)	Batts Per Pack	M ² Per Pack	Approx M ² Coverage
R1.5	90	1160	580	16	10.76	12.20
R2.0	90	1160	580	16	10.76	12.20
R2.5	160	1160	580	12	8.07	9.15
R3.0	175	1160	580	12	8.07	9.15
R3.5	190	1160	580	8	5.38	6.10
R4.0	200	1160	580	8	5.38	6.10
R4.5	225	1160	580	6	4.04	4.60

Standard R-Values for Rolls, Sizes and Packaging (for under floor applications)

R-Value	Nominal Thickness (mm)	
R1.0	50	Width ranges from 430 mm to 1200 mm. Length of rolls subject to thickness.
R1.5	90	
R2.0	90	
R2.5	160	
R3.0	175	



Thermal Batts and Rolls

Residential Wall, Underfloor and Ceiling Insulation



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 Batts and Rolls should be exposed in service is 150°C.

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 Batts, R1.5, R2.0, R2.5, R3.0, R3, R4.0 or R4.5 as Manufactured by Tontine Insulation or Tontine Thermal Rolls, R1.0, R1.5, R2.0, R2.5 or R3.0 as Manufactured by Tontine Insulation.

General Installation Guide

Tontine Thermal Batts and Rolls are safe and easy to install in walls, ceilings and underfloors. Batts are supplied in two widths to suit standard housing construction, this being 430mm widths for 450mm centres and 580mm for 600mm centres. As the batts are safe and soft, Tontine Thermal Batts are easily torn across the width of the batt or cut with a pair of industrial scissors or shears. Off cuts can be used to fill corners, crevices or gaps, eliminating any waste. For ceilings, Tontine Thermal Batts are installed by laying them on top of the ceiling between joists. A 50mm gap should be allowed around incandescent lamps and exhaust fans, 100mm around flue pipes and 200mm around recessed halogen downlights (refer to AS3999 or AS3000.2007). For walls, the Batts are placed between the wall studs in a snug position before the plasterboard is put in place. If required, string or strap insulation batts into position (refer to AS3999). For underfloor applications, Tontine Under-Floor Insulation can be secured by stringing/strapping or lightly staple into place between the floor joists. No special clothing, gloves or masks are required for installation. 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 E-MAIL customer@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 AS1191 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.

© Copyright 2008. ® and ™ are trademarks used by Tontine Insulation

50 Bakers Road Coburg North VIC 3058
Telephone: 1300 467 852
Fax: 1800 653 650
Email: customer@tontineinsulation.com.au
Website: www.tontineinsulation.com.au
Website: www.unitedbonded.com.au



SYDNEY • BRISBANE • MELBOURNE • PERTH