



Thermal and Sound Batts

High Performance Residential Insulation



products:knowledge:solutions
for more detailed ecological and/or health information on this product refer to www.ecospecifier.org

Product Description

Tontine Thermal & Sound Batts are manufactured using thermally bonded polyester fibres, with a minimum of 80% recycled fibres. As well as being manufactured to comply with AS/NZ 4859.1, Tontine Thermal & Sound Batts provide both thermal and acoustic performance and are a non-toxic and user friendly insulation, requiring no specific protective clothing. Tontine Thermal & Sound Batts 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 & Sound Batts have been designed to provide a safe and efficient thermal and acoustic insulation for the Australian building market. Tontine Thermal & Sound Batt are specially designed for use in both internal and external walls and correctly installed will improve energy efficiency, reduce greenhouse gas emissions and improve room-to-room privacy by reducing sound transmission.

Standard R Values, 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	75	1160	430	16	7.98	9.29
R2.0	75	1160	430	12	5.98	6.97
R2.0	90	1160	430	12	5.98	6.97
R2.5	90	1160	430	8	3.99	4.64

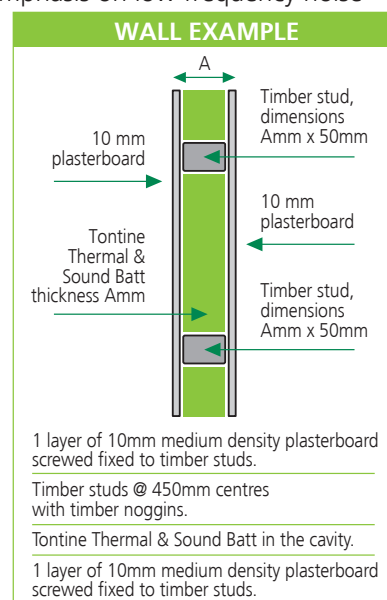
Standard R Values, Sizes and Packaging (to fit 600mm stud centres)

R-Value	Nominal Thickness (mm)	Length (mm)	Width (mm)	Batts Per Pack	M ² Per Pack	Approx M ² Coverage
R1.5	75	1160	580	16	10.76	12.20
R2.0	75	1160	580	12	8.07	9.15
R2.0	90	1160	580	12	8.07	9.15
R2.5	90	1160	580	8	5.38	6.10

Acoustic Performance

Tontine Thermal and Sound Batts are recommended for internal partition walls to reduce sound transmission. Rw is the weighted sound reduction index. It is a single number used to rate the effectiveness of a system as a noise insulator. An increase in one Rw of a given wall system will lead to a reduction of the noise level in the adjoining room by approximately 1 decibel. Ctr is a correction factor to Rw and puts more emphasis on low frequency noise transmission. Results are based on laboratory tests and acoustic opinions:

Rw RESULTS AND DETAILS		
R-Value	Cavity Thickness (A) mm	Rw
R1.5	75	38
R2.0	75	38
R2.0	90	40
R2.5	90	40





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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 & Sound Batts 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 and Sound Batts, R1.5, R2.0 or R2.5 as manufactured by Tontine Insulation.

General Installation Guide

Tontine Thermal and Sound Batts are safe and easy to install in walls. Batts are supplied in two widths to suit standard housing construction, 430mm widths for 450mm centres and 580mm for 600mm centres. Tontine Thermal and Sound Batts are easily torn or cut with a pair of industrial scissors or shears. Offcuts can be used to fill corners, crevices and gaps, eliminating any waste. The Batts are placed between the wall studs before the plasterboard is put in place. If required, lightly staple or tape insulation into position. No special clothing, gloves or masks required for installation as the batts will not cause skin irritation. 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 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 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.

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