



Acoustisorb 1

All-Purpose Commercial / Industrial Polyester Insulation



Product Description

Acoustisorb 1 is a flexible insulation blanket manufactured from thermally bonded polyester fibre, with a high percentage of recycled fibre. Acoustisorb 1 provides both thermal and acoustic insulation, and is manufactured to comply with AS/NZS 4859.1. For more information physical properties and material safety data please refer to the Tontine Bonded Polyester Products Material Safety Data Sheet.

Applications

Acoustisorb 1 is ideal for application over ceilings, partition walls, other wall assemblies & Curtain wall applications. Acoustisorb 1 will assist in reducing the sound transmissions through building assemblies and provides excellent sound absorption when used as an overlay product.

Standard Sizes

Nominal Thickness (mm)	Length (m)	Width (mm)	Number Per Pack
25	15	1200	1
50	10	1200	1
75	8	1200	1
100	6	1200	1

Acoustic Performance

Acoustic results are based on tests in accordance to AS1045 (**highlighted in bold**) and acoustic opinions as indicated on the table.

Product	SOUND ABSORPTION COEFFICIENTS @ FREQUENCIES					
	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	NRC
Plain 25mm	0.12	0.39	0.65	0.76	0.83	0.65
Plain 50mm	0.28	0.60	0.83	0.91	0.91	0.80
Plain 75mm	0.40	0.81	0.98	0.96	0.98	0.95
Plain 100mm	0.53	0.98	1.09	1.00	1.02	1.00

Thermal Performance

Thermal ratings are based on testing in accordance with AS/NZS 4859.1 at 23°C mean temperature.

Product	R-Value
Acoustisorb 1 25mm	R 0.6
Acoustisorb 1 50mm	R 1.2
Acoustisorb 1 75mm	R 1.9
Acoustisorb 1 100mm	R 2.5

Fire Resistance

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

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



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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 service temperature for Acoustisorb 1 is 150°C. When used with a vapour barrier facing, tolerance of the facing adhesive limits the surface temperature tolerance to 70°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 Acoustisorb 1 25mm, 50mm, 75mm, 100mm as manufactured by Tontine Insulation. For walls, the product shall be fitted in one piece per stud opening to fill the entire area.

General Installation Advice

Tontine Acoustisorb 1 is safe and easy to install in walls or ceilings. Tontine Acoustisorb 1 products 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. For walls, the insulation is placed between the wall studs or furring channels 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. Allow up to one month for products subjected to compression packing to recover to nominal thickness.

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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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