

Polycoustic Wall Batts

Polyester Acoustic Batts

PRODUCT DESCRIPTION

Insulco Polycoustic Wall Batts are manufactured from the finest quality bonded polyester fibres, providing excellent acoustic performance. Polycoustic batts are high density giving them the rigidity required to stand in a wall cavity without slumping when friction fit between wall studs.

Insulco polyester products contain no chemical additives and are soft and pleasant to handle.



APPLICATION

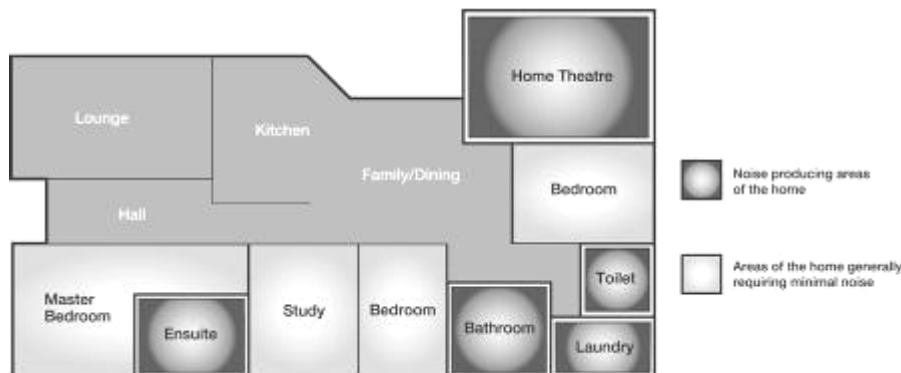
Polycoustic wall batts are pre-cut to friction fit between timber studs in 99% of residential home wall systems with stud spacing of 450mm or 600mm centres. The R1.5 (75mm) Polycoustic is designed for a 70mm timber frame and likewise the R2.0 (95mm) is designed for a 90mm timber frame.

Polycoustic batts are ideally suited for use in walls to reduce noise transfer between rooms. This is particularly desirable around the walls of both noisy and quiet areas of the home as seen in the diagram opposite.

Depending on the wall system, Polycoustic batts can decrease the noise transmission by up to 8 decibels (increasing the R_w or STC by up to 8).

Polycoustic batts may also be used between floors to reduce noise transfer between upstairs and downstairs. Again in this application they can reduce the noise transmission by up to 8 decibels.

R2.0 Polycoustic batts are also desirable in 90mm external walls to provide a high thermal performance. Normal R2.0 polyester batts will not fit into this application.



QUALITY ASSURANCE

Insulco polyester products are manufactured using the latest technology to produce premium quality products in accordance with

International Quality Assurance Standards.

PHYSICAL PROPERTIES

Nominal R-value (m^2/KW)	Thickness (mm)	Size (mm)	Batts per pack	Area per Pack (m^2)	Coverage per Pack (m^2)
R1.5	75	1160 x 430	8	4.0	4.5
		1160 x 580	8	5.4	6.1
R2.0	95	1160 x 430	8	4.0	4.5
		1160 x 580	8	5.4	6.1

- Nominal Density is $16kg/m^3$
- All sizes may not be available ex-stock
- Minimum order quantities apply for some non-standard products
- R-value is not in accordance with AS/NZS4859.1

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TEMPERATURE RANGE	Polycoustic Batts are manufactured for use at temperatures that are normally experienced in building systems.	Polycoustic service temperature ranges from sub-zero to a maximum temperature of 160°C, with a melting temperature of 250°C.
FIRE RESISTANCE	The following results were obtained when Insulco polyester insulation was subjected to early fire hazard test in accordance with AS 1530.3.	<ul style="list-style-type: none">• Ignitability Index 0• Spread of Flame 0• Heat Evolved 0• Smoke Developed 0-1
MOISTURE RESISTANCE	In the event of Polycoustic Batts becoming wet, they should be dried prior to installation to obtain maximum performance and prevent damage to other building elements.	When exposed to environmental conditions of 50°C and 95% relative humidity, Polycoustic batts absorb less than 0.2% by volume over a period of four days.
INFESTATION	Resistant to fungi, bacteria and vermin.	Does not harbour or sustain the growth of fungi, bacteria or vermin.
ALKALINITY	The following result was obtained when Insulco polyester was tested for alkalinity in accordance with BS 3958.5.	pH 6 to 8 (pH7 is neutral)
CORROSION RESISTANCE	When Insulco polyester is installed in contact with metal in such a way to prevent contamination from external	sources, Insulco polyester products do not cause or accelerate corrosion with steel, copper or aluminium.
CAPILLARITY	The following level of capillarity was observed when Insulco polyester is stood on end in a container of water.	Negligible after 24 hours.
SOUND TRANSMISSION LOSS	Sound transmission loss data is generally reported using the single number rating of Rw (Weighted Sound Reduction Index) or STC (Sound Transmission Class). These ratings are based on speech type noise and are generally accepted as being interchangeable.	The inclusion of Insulco Polycoustic Batts into a wall or ceiling cavity increases the Rw and STC by up to 8, depending on the type of system. Contact Tasman Insulation for an acoustic prediction of standard wall or ceiling systems using Polycoustic batts.
SAMPLE SPECIFICATIONS	The insulation material shall be Insulco {R1.5 or R2.0} Polycoustic batts as manufactured by Tasman Insulation.	

* Tasman Insulation Australia Pty Ltd retains the right to change products and specifications without prior notification. If a specification is critical to end use, please consult Tasman Insulation. 0505



A Fletcher Building Company

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