POLYMAX™ Premium Insulation

Acoustic Thermal Batts

*Premium **acoustic** and **thermal insulation** for residential and commercial buildings.*

DATA SHEET – POLYMAX ACOUSTIC THERMAL BATTS

- Thermally bonded polyester fibre insulation designed for optimal thermal and acoustic performance in wall and floor cavities.
- Ideal for use in external cavity walls for traffic noise reduction and to provide low-frequency acoustic performance as well as thermal performance as required by the Building Code of Australia (BCA). See table for available thermal ratings.
- 75mm to 100mm thickness to suit most stud wall cavities.
- Complies with AS 4859.1 R-Values quoted are for the insulation material only.
- Non-irritant and does not require any protective clothing or masks during installation.
- Odourless and contain no harmful volatile organic compounds (VOC).

Applications

Polymax Acoustic Thermal Batts are designed to suit a wide range of building applications – i.e. roofs, walls, ceilings and underfloor.

Polymax Acoustic Thermal Batts are ideal for home theatre walls and ceilings. They provide excellent thermal insulation with the added benefit of reduced noise transmission between rooms and floors as well as external noise from traffic and aircraft. For specific acoustic applications refer to the **Polymax Acoustic Design Guide**.

Environmental benefits

Polymax Acoustic Thermal Batts is manufactured from thermally bonded polyester fibre with a minimum of 80% recycled fibre content from post-consumer PET packaging such as empty drink bottles. The product is 100% recyclable and has very high reuse potential as insulation.

- No chemicals or phenol formaldehyde resin binders are used in manufacture.
- Odourless and contains no harmful volatile organic compounds (VOC).
- No waste is generated in manufacture.
- No water or ozone-depleting gases are used in manufacture.
- No chlorides are present in the product.
- Martini's product stewardship programme can be viewed at www.polymaxinsulation.com.au
- Suitable for use in Green Star™ projects.

www.polymaxinsulation.com.au

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Physical description and properties

Volatiles:	Nil
Specific Gravity:	1.38
Flash Point:	None allocated
Other Properties:	Non-allergenic, low irritant, low flame response, resilient
Ingredients:	Organic long chain synthetic polymer
Max Service Temp:	150˚C
Alkalinity:	pH 7.8 (pH 7 is neutral)
Moisture Absorption:	Exposure to an atmosphere of 50˚C & 95% RH for four days gives a moisture of less than 2% by volume
Fire Resistance:	The following results were obtained when Martini Industries Polymax was subjected to early fire hazard testing in accordance with Australian Standards AS 1530.3. Polymax meets all requirements of the BCA for all insulation applications

Ignitability	0
Spread of Flame	0
Heat Evolved	0
Smoke Developed	0-1

Acoustic and thermal performance

In a cavity wall construction consisting of 10mm plasterboard to either side of 75mm and 90mm thick timber studs spaced at 450 mm centres with timber noggins, **Polymax Acoustic Thermal Batts** can have the following performance expressed in Rw (weighted sound reduction index). An increase in one Rw point is equivalent to a reduction of one decibel in noise level.

R-Value	Batt thickness & cavity depth mm	Rw
1.5	75	38*
2.0	75	38*
2.0	90	40*
2.5	90	40*

*Acoustic performance based on empirical data and expert opinion

Thermal performance and pack specifications

R-Value	Thickness mm	Length/width mm	Batts per pack	M² per pack
R1.5	75	1160 x 430	16	8.0
R1.5	75	1160 x 580	16	10.8
R2.0*	75	1160 x 430	8	4.0
R2.0*	75	1160 x 580	8	5.4
R2.0	90	1160 x 430	12	6.0
R2.0	90	1160 x 580	12	8.1
R2.5	90	1160 x 430	8	4.0
R2.5	90	1160 x 580	8	5.4

*Calculated

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