

# Acousti-Therm Batts

## R-rated Acoustic Batts

### PRODUCT DESCRIPTION

Insulco Acousti-Therm Batts are manufactured from glasswool, providing excellent acoustic and thermal performance. Acousti-Therm is light weight and easy to install in walls, ceilings and between floors.

The products meet all Building Code of Australia (BCA) requirements and comply with the insulation product standard AS/NZS 4859.1.

Acousti-Therm Batts are guaranteed not to burn (non-combustible), and require no maintenance. They are rot resistant and do not sustain vermin.



### APPLICATION

Acousti-Therm Batts are pre-cut to fit between wall studs and ceiling joists in 99% of commercial and domestic applications.

Acousti-Therm Batts are ideally suited for use in partition walls and between floors to reduce the noise transfer between rooms. Acousti-Therm Batts

are manufactured such that they maximise the acoustic performance of cavities. As a general guide Acousti-Therm will provide the equivalent acoustic performance to rockwool batts.

Acousti-Therm is excellent for use in limited size cavities where a high R-value is required.

### QUALITY ASSURANCE

Insulco glasswool products are manufactured using premium grade raw materials to produce quality products in accordance with

International Quality Assurance Standards ISO9002. Acousti-Therm Batts also meet the BCA requirement of compliance with AS/NZS 4859.1.

### WARRANTY

Acousti-Therm Batts are guaranteed to perform to the insulation product standards AS/NZS 4859.1 and 3742

for the lifetime of the building when installed in accordance with AS3999.

### PHYSICAL PROPERTIES



R-Rating Value (m <sup>2</sup> K/W)	Batt Sizes (mm)	Nominal Thickness (mm)	Batts per pack (pieces)	Area per pack (m <sup>2</sup> )	Coverage per pack (m <sup>2</sup> )
R1.5	1200 x 580	65	12	8.4	9.3
	2700 x 600	65	6	9.7	10.7
	1200 x 430	65	12	6.2	6.8
R2.0	1200 x 580	75	8	5.6	6.2
	2700 x 600	75	4	6.5	7.2
	1200 x 430	75	8	4.2	4.6
R2.5	1200 x 580	95	8	5.6	6.2
	2700 x 600	95	4	6.5	7.2
	1200 x 430	95	8	4.2	4.6

### FIRE RESISTANCE

The following results were obtained when Insulco Building Insulation was subject to Early Fire Hazard Tests in accordance with AS1530.3.

- Ignitability Index 0
- Spread of Flame 0
- Heat Evolved 0
- Smoked Developed 0-1

0507

# Acousti-Therm Batts

## R-rated Acoustic Batts

**TEMPERATURE RANGE** Insulco Acousti-Therm Batts are manufactured for use at temperatures that are normally experienced in building systems. Acousti-Therm Batts service temperature ranges from sub-zero to a maximum temperature of 350°C.

**MOISTURE RESISTANCE** In the event of Acousti-Therm Batts becoming wet, they should be dried prior to installation to obtain maximum performance and prevent damage to other building elements. Acousti-Therm Batts absorb less than 0.2% moisture by volume when exposed to environmental conditions of 50°C and 95% relative humidity for 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 glasswool was tested for alkalinity in accordance with BS 3958.5. pH 6.9 (pH7 is neutral)

**CAPILLARITY** The following level of capillarity was observed when Insulco glasswool 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 STC (Sound Transmission Class) or Rw (Weighted Sound Reduction Index). These ratings are based on speech type noise and are generally accepted as being interchangeable. The inclusion of Insulco Acousti-Therm Batts into a wall or ceiling cavity increases the STC and Rw by up to 8, depending on the type of system. Contact Tasman Insulation for an accurate Acoustic prediction of standard wall or ceiling systems using Acousti-Therm.

**SOUND ABSORPTION** Insulco Acousti-Therm obtains the following Sound Absorption Coefficients when tested in a Reverberation Chamber to AS1045 (Mounting No. 4 - Laid flat on floor).

R-Rating (m <sup>2</sup> KW)	Thickness (mm)	Frequency (Hz)						NRC*
		125	250	500	1000	2000	4000	
R1.5	65	0.32	0.66	1.03	0.97	0.97	0.89	0.90
R2.0	75	0.31	0.73	1.08	1.00	0.97	0.95	0.95
R2.5	95	0.43	0.98	1.25	1.10	1.02	0.98	1.10

\*NRC - Noise Reduction Coefficient

**SAMPLE SPECIFICATION** The insulation material shall be Insulco R..... m<sup>2</sup>K/W Acousti-Therm Batts as manufactured by Tasman Insulation.

\* Fletcher Insulation (NSW) Pty Ltd retains the right to change products and specifications without prior notification. If a specification is critical to end use, please consult Fletcher Insulation.