

SONOCOUSTIC™ & MONOCOUSTIC™

Acoustic Ceiling Panels

PRODUCT DESCRIPTION AND TYPICAL APPLICATIONS

Insulation Solutions™ decorative ceiling product lines combine the excellent thermal and sound absorption performance of rigid Glass Wool baseboard with decorative embossed vinyl facings. *Insulation Solutions Monocoustic* Ceiling Panels provide an economical and easy-to-install ceiling or wall cladding system in sizes up to 3600mm by 1200mm. *Insulation Solutions Sonocoustic* Ceiling Panels provide an attractive rigid “drop-in” system ideally suited to commercial

25mm T-section grid systems. *Sonocoustic* is particularly recommended for ceiling applications in commercial buildings where the textured perforated facing offers excellent sound absorption characteristics and light reflectance properties. While *Insulation Solutions* Ceiling Panels exhibit high moisture resistance, it is not recommended that they are installed in areas of high humidity such as shower rooms, laundries, or domestic bathrooms.

PHYSICAL CHARACTERISTICS

Ceiling Panel Type	<i>Sonocoustic</i>	<i>Monocoustic</i>
Nominal Thickness (mm)	22	40
Standard Dimensions* (mm)	1200 x 600	1200 x 600
	1200 x 1200	1200 x 1200
	1220 x 610	2400 x 1200
		3000 x 1200 3600 x 1200
Nominal Mass (kg/m ²)	1.4	1.9
Available Facings	Ivorytone	White Fissure

*Other sizes are available subject to minimum order quantities. Note that in practice all panels are supplied undercut to allow easy placement in standard grid systems.

THERMAL RESISTANCE

Values of Thermal Resistance, (R-Values) for *Insulation Solutions* Ceiling Panels are as follows:

	m ² K/W
<i>Sonocoustic</i> 22 mm	0.65
<i>Monocoustic</i> 40 mm	1.25

*Should further thermal insulation be required, *Pink Batts™*, *Noise Control Batts™* or *Sonomatt™* can be overlayed onto the installed ceiling. (Refer separate Data Sheets)

EARLY FIRE HAZARD RATING

When tested in accordance with AS1530 Part 3 “Early Fire Hazard Properties of Materials”, *Sonocoustic* and *Monocoustic* Ceiling Panels exhibit the following characteristics:

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

DATA SHEET

SOUND ABSORPTION

Insulation Solutions Ceiling Panels have the following sound absorption co-efficients when tested in accordance with AS1045 by the Reverberation Room Method. Tests were carried out in a No. 7

mounting configuration (with a 400mm airspace behind the panel). Results are based on test reports from a N.A.T.A. registered laboratory. Tests were conducted on panels with random perforated facing material.

Sound Absorption Co-efficients

Frequency (Hz)	125	250	500	1000	2000	4000	N.R.C.
22mm Sonocoustic	0.62	0.87	0.68	0.86	0.79	0.50	0.80
40mm Monocoustic	0.55	0.80	0.76	0.85	0.59	0.31	0.75

CEILING ATTENUATION CLASS (C.A.C)

The addition of *Insulation Solutions* Sonobatts™* on top of *Sonocoustic* Ceiling Panels can substantially increase the Room to Room Attenuation when tested in accordance with AS2499. The

following table shows the Ceiling Attenuation Class (C.A.C.) for *Insulation Solutions Sonocoustic* Ceiling Panels with 75mm thick *Insulation Solutions Sonobatt* overlay.

Frequency (Hz)	125	250	500	1000	2000	C.A.C.
17mm <i>Sonocoustic</i> . No Overlay.	14	18	17	26	31	24
17mm <i>Sonocoustic</i> with 75mm <i>Sonobatt</i> Overlay	27	29	35	44	52	39

*See separate Technical Data Sheet for *Sonobatt* information.

DIMENSIONAL STABILITY

Insulation Solutions Ceiling Panels offer very high resistance to moisture absorption which protects them against warping, buckling and sagging. This characteristic of dimensional stability helps ensure

the panels maintain their originally installed appearance throughout the life of the ceiling.

SPECIFICATION NOTES

State: Product Name and Facing and Perforation (if any) e.g. *Insulation Solutions Sonocoustic* Ivorytone Perforated.

State: Panel Thickness, e.g. 22mm

State: Nominal Grid Size e.g. 1200 x 600 Exposed Tee-bar Grid System with panel locating area of 11mm, for panels up to 2400 x 1200mm, (or locating area of 20mm minimum for panels over 2400 x 1200mm).

BIO-SOLUBILITY

The fibre used in this product is FBS-1 Bio-Soluble Glass Wool™ Insulation. This means that it dissolves in bodily fluids and is quickly cleared from the lungs. It complies with the test of short term

biopersistence in Note Q of [NOHSC: 10005 (1999)]. *Glass Wool* is classified as safe to use.



SUSTAINABILITY

Sustainability...measures that satisfy the needs of people today while enhancing the quality of life for future generations. The demands on non-renewable resources for the production of energy are not sustainable without compromising the environment. Insulation, correctly specified and installed, is one of the most critical products in

improving energy efficiency and reducing the levels of greenhouse gas emissions. *Insulation Solutions* is committed to providing environmentally sustainable products and utilises up to 70% recycled waste glass in the production of *Glass Wool* Insulation.