



SERENITY

LOOKS GOOD, SOUNDS GREAT



Decorative Acoustic Ceiling Panels



Serenity Ceiling Panels are designed to absorb reflected sound, or reverberation, that could otherwise cause problems in interior spaces. Serenity Panels are fabric covered, so when installed can enhance the décor of any room or public space. Typical applications where Serenity Panels will help create a pleasant, comfortable environment include noisy restaurants, or sports venues that may simply have too much echo for speech or public address systems to be heard clearly. Serenity Panels have been installed effectively in Gymnasiums, Studios, Schools, Churches, Community Centres, Courts, Auditoriums, Restaurants, Offices and Call

Serenity Ceiling Panel Features:

- Decorative Acoustic Absorber Panels that reduce reflected noise and unwanted sound across all hearing frequencies.
- Simple installation to any internal wall or ceiling surface.
- Manufactured in a range of sizes thicknesses to suit all interior applications. Can be custom-made to size. Panel area and thickness will affect acoustic performance. It is strongly recommended that an Acoustic Engineer should be consulted before specifying the requirements for a project.
- Serenity Panels have been developed and fully tested in registered Acoustic Laboratories. See Page 2 for NRC's and Sound Absorption Co-efficients at various frequencies.
- Available in a huge range of fashionable screen fabrics to enhance any interior décor.
- Fabric wraps around all edges
- Fabric facing can be digitally printed if required
- Panels are fitted with L32 impact resistant membrane
- All Serenity components have low VOC content. Most have a substantial recycled raw material content.
- Serenity Panels are Ecospecifier listed (see logo and website below).
- Fire hazard Properties: Complies as a Group 2 material as specified in Specification C1.10a of the Australian Building Code (BCA).
- Suitable for "Greenstar" and LEED" environmental rating programs for commercial interiors.
For further information, refer to the Serenity Data Sheet



Fig 1.
Serenity Ceiling Panels can be designed to fit around existing services, or even incorporate new services, such as lighting.



Fig. 2
Serenity Ceiling Panels can be custom made to fit room dimension as seen here.



Ceiling Panel Installation Methods

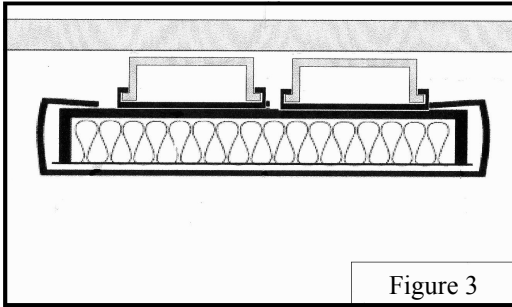


Figure 3

Serenity Ceiling Panels can be installed using conventional suspended ceiling systems such as a two way exposed T-grid System. (Refer to the photo on P.1, top left).

Alternatively, they can be fixed using clips and track in a similar way to plasterboard, or even hung as described below:

Figure 3 shows Serenity Panels fixed directly to the ceiling using 'Rondo' metal furring channel and Direct Fix Clip #237.

When mounted with an airspace behind the panel, Serenity can be manufactured with a perforated backing to further enhance acoustic performance.

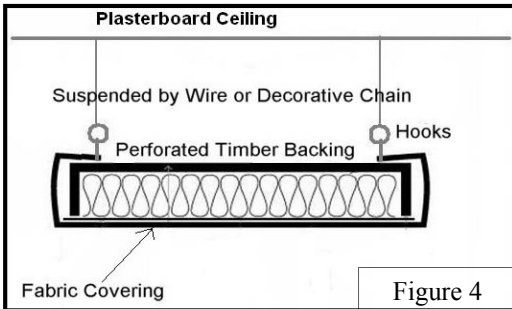


Figure 4

Figure 4 shows Serenity Panels suspended from chain to create a design feature. This gives the opportunity to either backlight the panels, or even incorporate lighting into the panels themselves—at the same time providing excellent noise reduction and improved sound quality in the space below.

Sound Absorption

	Sound Absorption Coefficients Reverberation room method (Hz)						
Thickness	125	250	500	1000	2000	4000	N.R.C.
25mm	0.15	0.55	1.00	0.95	0.95	0.95	0.85
50mm	0.26	0.71	1.03	1.11	1.09	1.03	1.00
75mm	0.50	1.05	1.05	1.00	1.05	1.00	1.05

Serenity Acoustic Panels have been tested in N.A.T.A. registered laboratories at R.M.I.T. Melbourne, Australia, to AS/NZS 1045 using a full reverberation chamber test and have achieved Noise Reduction Coefficients (N.R.C.) as shown above, using conventional acoustic screen fabric facings.

Note: An NRC of 0.85 means that up to 85% of the sound reaching the panel is absorbed. Increases in low frequency absorption can be achieved by adding an air gap behind the panel or by increasing the panel thickness.

Panel Dimensions

Thickness (mm)	Panel Sizes (mm)	Facings
25, 50, 75	1200 X 600 , 1200 X 1200, 2400 X 1200 Note: Other sizes available on a request basis	A wide range of suitable acoustic finishes are available from most leading fabric suppliers. Sontext can recommend suitable fabrics.

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