

DecraSorb

Fabric Covered Acoustic Ceiling Panels



Trends in modern interior design have seen the introduction of hard surfaces such as stone and tiles on walls, ceilings and floors. These surfaces reflect sound much more readily than soft finishes. The result is that such Interior spaces may be difficult to utilise fully, simply because noise levels may be unacceptably high or reverberation causes speech or music to be hard to hear clearly, or is distorted.

The simplest and cheapest way to reduce reflected sound or reverberation is to install sound absorbing panels like DecraSorb™ Wall Panels. However, when windows, lighting, etc, is such that sufficient wall area is not available, then the next option is to utilise the DecraSorb™ Ceiling Panels.

By incorporating DecraSorb Ceiling Panels either as a suspended feature or by direct fixing them to the ceiling, the reduction in unwanted noise is quite significant. Up to 100% of noise at specific frequencies can be absorbed by utilising the thicker DecraSorb Panels or by incorporating an air gap into the ceiling construction.

Typical Uses

DecraSorb Ceiling Panels can be used in schools, hotels, restaurants, churches or public places where there is likely to be a significant amount of sound generated by people, music or public address systems. A typical example is Rivers Convention Centre where the quality of sound was being adversely affected by reverberation, or echo, reflecting off walls and ceiling the room.

DecraSorb Ceiling Panels were installed, and the noise levels were reduced. The manager later commented that “many clients have said what a difference it makes”.

DecraSorb Ceiling Panels are particularly suitable for noise control in commercial office interiors. They are easily installed into existing suspended ceiling grid systems, and can be fabricated to accommodate existing fittings such as air-conditioning registers, sprinklers, etc.

(See image opposite: These ceiling panels were tailor made with edges to suit an existing concealed grid system and improved the work environment in a call centre. The panels were designed in consultation with both the Architect and Acoustic Consultant on the project).



Standard Panel Dimensions

THICKNESSES

25, 50, 75, 100, 125

SIZES

1200 X 600, 1200 X 1200, 2400 X 1200mm

Other sizes available on a request basis

Installation Methods

DecraSorb™ Ceiling Panels can be installed using conventional suspended ceiling systems such as a two way exposed or concealed 'T- bar' grid system. Alternatively, they can be direct fixed to the ceiling. For alternative systems please contact our sales office to discuss.

Sound Absorption

DecraSorb Acoustic Ceiling Panels have been tested in ISO approved laboratories using a full reverberation chamber test and have achieved Noise Reduction Coefficients (N.R.C.) of 0.85 for 25mm thick panels (see below). A reading of 0.85 means that up to 85% of the sound striking the panel is being absorbed. For specific requirements it is recommended you consult an acoustic engineer.

Test results for panel thicknesses other than those shown below are available on request

SOUND ABSORPTION AT CENTRE FREQUENCIES (Hertz) SHOWN BELOW:

PANEL 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
Available From 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

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Rev 2 8.2.2042