



# dB Absorbers

Decorative absorbers designed to reduce reverberation manufactured from a sound absorbing MelaTech foam core covered with a high quality acoustically transparent fabric.

## Key Features and Benefits

- Directly bonded acoustic absorbers
- Absorb high levels of reflected noise
- Class A acoustic absorber (BS EN ISO 11654-1997)
- Effective alternative to installing a full suspended ceiling
- Available in a selection of colours and fabric ranges
- 50mm thickness
- Light weight yet robust
- Simple installation



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## Applications

- Schools
- Multi-purpose halls
- Gymnasias
- Recording studios
- Music practice rooms
- Health care facilities
- Offices
- Call centres

## Colour and Finish

Cara, Lucia and Lucia FR fabric ranges are available as standard in a wide range of colours. Alternatively, dB Absorbers can be covered with a client's own choice of fabric, subject to it being of a suitable quality and having the required acoustic properties.

## Operating Temperature

Suitable for use at normal building temperatures.

## Fire Performance

MelaTech foam complies with the Class 'O' requirements of the Building Regulations, when tested to BS476: Part 6: 1981 and Part 7: 1987.

Cara, Lucia and Lucia FR fabrics meet the requirements of Class 1 Surface Spread of Flame when tested to BS476: Part 7: 1997 (As Amended). The composite absorbers have not been fire tested.

## Thermal Conductivity

0.035 Wm/K @ 10°C

## Availability

dB Absorbers are available to order and should only be fitted by suitably qualified tradesmen or specialist contractors.

## Dimensions and Weight

| Thickness<br>mm | Panel Length<br>mm  | Panel Width<br>mm   |
|-----------------|---------------------|---------------------|
| 50              | Any Size up to 2500 | Any Size up to 1250 |

## Acoustic Performance

| Thickness<br>mm | Sound Absorption Coefficient (BS EN ISO 354) |        |        |         |         |         | $\alpha_w$ | * Absorber Class |
|-----------------|--|--------|--------|---------|---------|---------|------------|------------------|
|                 | 125 Hz                                       | 250 Hz | 500 Hz | 1000 Hz | 2000 Hz | 4000 Hz |            |                  |
| 50              | 0.18   | 0.82   | 1.00   | 1.00    | 1.00    | 1.00    | 1.00       | A                |

\* Absorber Classifications tested in accordance with BS EN ISO 11654:1997

## Technical Advice

Highly qualified building and acoustic consultants are available to offer assistance and advice to clients, architects and contractors on all aspects of noise control to ensure design specifications and acoustic performance requirements are achieved. They can also undertake noise surveys and provide details of anticipated reverberation times pre and post installation.

## Packaging, Handling and Storage

Two dB Absorbers are packed with fabric-face to fabric-face in a non-returnable polythene bag. Packs are laid flat and delivered on non-returnable wooden pallets with plastic corner protectors. Absorbers should be stored inside and under cover in a dry, well-ventilated area protected from dirt and dust. Pallets should be kept level and not double-stacked. Extreme care should be taken when handling, to avoid soiling the fabric.

## Application and Fixing

Dimensional changes may occur in dB Absorbers dependent on the relative humidity of the area in which they are being installed. Absorbers should therefore be left to acclimatise for 24 hours prior to installation. For best results it is recommended that panels are bonded into place with a minimum 100mm spacing between them using a suitable adhesive (such as Soudal Fix All Crystal).

## Care and Maintenance

The surface of dB Absorbers can be cleaned periodically with a vacuum cleaner. Under no circumstances should they be submerged in water or subjected to a high pressure water jet spray. Stains on the fabric covering may be treated with an appropriate non-solvent based cleaning solution applied in accordance with the manufacturer's instructions.

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