

CEILING ABSORBERS

Fabric Covered Sound Absorbent Treatment



Designed as simple decorative ceiling panels that can be bonded in position to provide sound absorption. They are an extremely effective and economic alternative to complete suspended acoustic ceilings and can be installed to create a feature within the treated space, enhancing the interior design. They are typically used to reduce reverberant noise levels in buildings such as schools, sports and community halls, conference facilities and many other wide and varied applications throughout commerce and industry.

Description

Each ceiling absorber panel comprises a melamine foam core, covered with an acoustically transparent fabric, affording a decoratively pleasing finish. A wide range of fabric colours is available and samples can be provided on request.

Dimensions and Weight

All absorbers are custom sized for individual applications, to create both an aesthetically pleasing installation and to suit the physical constraints of the building. For most projects a panel of 50mm thickness provides the optimum balance between acoustic performance and finished appearance. The maximum panel size is 1250mm wide x 2500mm long and this would weigh 2.44kg at 50mm thick.

Dimensional Changes

As dimensional changes in the melamine foam can occur, dependent upon relative humidity, allowances should be made to avoid designs placing panels adjacent to one another. It is therefore recommended that shadow gaps of at least 10mm are left between panels.

Care and Maintenance

The fabric surface may be periodically brushed or cleaned with a vacuum cleaner. Stains may be treated with an appropriate non-solvent based cleaning solution but, under no circumstances, must water be used to high pressure clean or soak the absorber.

Acoustic Performance

The introduction of an appropriate area of Ceiling Absorber, typically reduces reverberation levels within a hall, from around 3.5/4.0 seconds to around 1.0/1.5 seconds. The following table indicates the performance provided by 50mm thick panels.

Frequency	125hz	250hz	500hz	1khz	2khz	4khz
Absorption Coefficient	0.23	0.50	1.0	1.0	1.0	1.0



Fire Resistance

The melamine foam core of the panel meets the Class 0 requirements of BS476: Part 6: 1981 and Part 7: 1987 whilst the standard fabric meets Class 1 BS476: Part 7: 1987.

Thermal Conductivity

0.035 W/mK @ 10°C

