

# SoundDrapes

## Description

**SoundDrape Curtains** are manufactured from lightweight glass fibre totally enclosed in a choice of fabrics each designed to meet particular application or performance criteria. Individual curtains are sewn with stainless steel thread and quilted to prevent the fibre slumping.



The top of each curtain can be cut to shape to follow the contour of the soffit or opening to which they are to be fitted. They are also reinforced to facilitate the fixing of eyelets which enable them to be hung from a rail.

The sides of each curtain are fitted with Velcro fastenings to hold them together and to maintain the thermal and acoustic integrity.

**SoundDrapes** are designed to be hung from soffits and ceilings to compartmentalise large areas and to provide a temporary or de-mountable thermal and acoustic barrier. They can also be fitted directly to walls to reduce reverberation within a space.

## Fabrics and Colour

Curtains for use in thermal insulation applications are generally manufactured with a washable Green PVC coated nylon fabric.

Curtains for use in acoustic insulation applications are generally manufactured with a Black acoustically transparent glass cloth fabric.

Other fabric finishes and colours are available subject to enquiry and minimum order quantity.

## Application

**SoundDrape Thermal Curtains** are used in agricultural and farm buildings to compartmentalise large open spaces. This facilitates the creation of different temperature zones within a space, thus enabling fresh produce to be packed or stored in optimum conditions within each growing season.

**SoundDrape Acoustic Curtains** are used in underground railway stations to create a barrier to noise travelling up stairwells and escalators during refurbishment works and on construction sites to control noise breaking out into the surrounding environment.

**SoundDrape Curtains** can help reduce the volume of dirt and dust migrating between different work areas.

## Operating Temperature

**SoundDrape Thermal Curtains** with green PVC coated fabric are suitable for use when the temperature within a building ranges from -20°C to +30°C.

**SoundDrape Acoustic Curtains** with black glass cloth fabric are suitable for use when the temperature within a building ranges from 0°C to +200°C.

## Fire Performance

The glass fibre infill achieves a Euroclass A1 fire rating (non-combustible) when tested in accordance with BS EN 13501-1.

The glass fibre infill is non-combustible, when tested in accordance with BS476: Part 4: 1970 (1984).

The black glass cloth used in acoustic insulation applications meets the requirements of BS476: Part 7 Class 1 Surface Spread of Flame.

## Thermal Conductivity

Density of Glass Fibre Infill kg/m <sup>3</sup>	Thermal Conductivity W/mK @ 10°C
16	0.037
20	0.037

## Acoustic Performance

**SoundDrape Acoustic Curtains** reduce the reverberation time within an area by acting as a barrier when sealed to surrounding walls. The amount of noise reduction will depend on the placement of the curtains and the size of the area into which they are fitted.

Thickness mm	Sound Absorption Coefficients of SoundDrape Acoustic Curtains					
	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz
25	0.15	0.25	0.40	0.50	0.65	0.70
50	0.25	0.45	0.70	0.80	0.85	0.85
100	0.47	0.98	1.00	1.00	1.00	1.00

## Dimensions, Density and Weight

Thickness mm	Density of Infill Kg/m <sup>3</sup>	Max Width mm	Max Length m	Approx. Weight kg/m <sup>2</sup>
25	16	1100	5	0.65
50	20	1100	5	0.85
100	20	1000	5	1.1

## Permanence

The glass fibre infill is rot-proof, odourless, non-hygroscopic, does not sustain vermin and will not encourage the growth of fungi, mould or bacteria. It is dimensionally stable under varying conditions of temperature and humidity and is compatible with most surfaces it is likely to come into contact with.

### For Further Information

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