

# DecoSound

## Description

**DecoSound** is a highly effective, sound absorbing, non-combustible ceiling panel manufactured from medium density, moisture resistant mineral wool with a pre-painted tissue on the front face and a non-woven glass tissue on the reverse. **DecoSound** will not sustain bacteria, mold or fungus.



Panels are designed to be functional and are for use in areas requiring extremely high levels of acoustic absorption. They can be adhered or mechanically fixed directly to both horizontal and vertical surfaces, subject to the receiving substrate being in suitably good condition. Alternatively, **DecoSound** can be installed in an exposed suspended ceiling grid system and secured with clips.

**DecoSound's** thermal insulation properties can make a significant contribution to the thermal resistance of a building when used as part of the overall roof construction.

**Colour** - White as standard  
Black and natural are available subject to enquiry and minimum order quantities

**Light Reflectance** - White - Approx 80%  
Black - Approx 9%  
Natural - Approx 60%

## Application

**DecoSound** is suitable for use in industrial buildings, workshops, machine halls, test laboratories, village halls, schools, cinemas, theatres and changing rooms.

## 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.

## Moisture Resistance

**DecoSound** is suitable for use in areas with 90% relative humidity at 25°C.

## Operating Temperature

**DecoSound** is suitable for use at normal building temperatures.

## Fire Performance

**DecoSound** achieves a Euroclass Reaction to Fire Class A1 (non-combustible) when tested in accordance with BS EN 13501-1.

## Thermal Conductivity

- 0.035 Wm/K @ 10°C

## Building Regulation Classification

DecoSound	Absorber Classification (When tested to BS EN ISO 11654-1997)	
	50mm thick	100mm thick
Fixed directly to substrate	A	A
200mm void behind panels	A	A
500mm void behind panels	A	A

## Acoustic Performance

DecoSound Thickness mm	Depth of Void Behind Panels mm	Sound Absorption Coefficient (Tested to BS EN ISO 354)						$\alpha_w$
		125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	
50	Fixed directly to substrate	0.20	0.65	1.00	1.00	1.00	1.00	0.90
	With 200mm void behind	0.50	0.85	1.00	1.00	1.00	1.00	1.00
	With 500mm void behind	0.80	0.90	0.90	1.00	1.00	1.00	1.00
100	Fixed directly to substrate	0.50	1.00	1.00	1.00	1.00	1.00	1.00
	With 200mm void behind	0.50	0.85	1.00	1.00	1.00	1.00	1.00
	With 500mm void behind	0.80	0.90	0.90	1.00	1.00	1.00	1.00

## Dimensions and Weight

Thickness mm	Length mm	Width mm	No of Panels per Carton	m <sup>2</sup> per Carton	Nominal Weight kg/m <sup>2</sup>	
					Panel	Panel & Grid
50	1200	600	8	5.76	2.5	4
	1200	1200	8	11.52	2.5	4
100	1200	600	4	2.88	5.0	6.5
	1200	1200	4	5.76	5.0	6.5

## Availability

**DecoSound** is generally available to order.

## Handling and Storage

**DecoSound** panels are packed in cardboard cartons and should be stored inside in a dry, well-ventilated area protected from dirt and dust. Cartons should be stored flat, off the ground and no more than six high. DO NOT stack on end. Extreme care should be taken when handling to avoid damage.

## Application and Fixing

**DecoSound** can be mechanically fixed directly to the underside of a roof or to a wall using four big head fastenings per 1200mm x 600mm panel. One fastening should be placed in each corner, spaced 200mm in from the short edge and 150mm in from the long edge.

**DecoSound** panels are designed for use in a standard, non-corrosive T24 exposed ceiling grid system.

**DecoSound** is NOT designed to carry the weight of recessed light fittings and therefore lighting should be supported by other means.

## Care and Maintenance

**DecoSound** can be cleaned by vacuuming the surface using a soft brush attachment or gently wiping the face using a damp cloth with mild detergent.

## For Further Information

contact

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