

ReFlex

Description

ReFlex ceiling panels are designed to absorb low frequency noise and can be used in conjunction with **CleanSound** ceiling panels to control the acoustic environment within a room.



Panels are manufactured from non-combustible, medium density, moisture resistant mineral wool with a decorative glass cloth fabric on the front face and a non-woven glass tissue on the reverse. The edges are sealed to prevent dust migration. **ReFlex** will not sustain bacteria or fungus.

ReFlex panels can be installed in a standard exposed suspended ceiling grid system and secured with clips. Alternatively, they can be fixed directly to both horizontal and vertical surfaces, subject to the receiving substrate being in suitably good condition.

ReFlex'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 other colours are available subject to enquiry and minimum order quantities

Light Reflectance

- White - Approx 83%
- Black - Approx 9%

Application

ReFlex, used in conjunction with **CleanSound** is particularly effective in controlling the acoustic environment in classrooms and other educational buildings, conference rooms, theatres, cinemas and music rooms. It can also be used in commercial buildings such as offices, foyers, and reception areas, public buildings such as libraries and court rooms and in medical facilities.

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

ReFlex is suitable for use in areas with 70% relative humidity at 25°C.

Operating Temperature

ReFlex is suitable for use at normal building temperatures.

Fire Performance

ReFlex 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

ReFlex	Absorber Classification (When tested to BS EN ISO 11654-1997)
	18mm thick
200mm void behind panels	D

Acoustic Performance

ReFlex Thickness mm	Depth of Void Behind Panels mm	Sound Absorption Coefficient (Tested to BS EN ISO 354)						α_w
		125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	
18	With 200mm void behind	0.40	0.40	0.25	0.25	0.40	0.30	0.30

Dimensions and Weight

Thickness mm	Length mm	Width mm	No of Panels per Carton	m ² per Carton	Nominal Weight kg/m ²	
					Panel	Panel & Grid
18	600	600	32	11.52	2.5	3.5
	1200	600	16	11.52	2.5	3.5

Availability

ReFlex is generally available to order.

Handling and Storage

ReFlex is 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

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

Alternatively, ReFlex can be fixed directly to the underside of a roof or a wall using an appropriate adhesive applied in accordance with the manufacturer's instructions.

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

Care and Maintenance

ReFlex 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

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