

Sound Fibre-Rock



Description

Sound Fibre is manufactured from non-combustible rock fibre. It is resistant to high temperatures and has excellent sound and thermal qualities, making it an ideal choice for cavity wall, floor and ceiling insulation.

It is simple to cut and install, and is available in 4 different thickness's. It is supplied in slabs 1000 x 600mm The slabs can also be supplied as part of an acoustic composite product, with lead or polymeric barriers.

Applications

Acoustic Control:

Sound Fibre-Rock slabs are particularly suitable for acoustic infill in partitions and ceilings, providing a high level of control of both airborne and structure-borne sound. They are also suitable for acoustic absorption in the linings of buildings, with the 60kg/m³ slabs being particularly good in sound studios.

Fire Protection:

The 100kg/m³ slabs have been assessed by LPC as a suitable product for upgrading the fire resistance of dense concrete slabs (for up to 2 hours).

The 45kg/m³ slabs can also be used to firestop small voids, in particular the gap under pitched roofs in dwellings. It will also assist in compliance with Building Regulations Approved Document E 2003.

Specification

Sound Fibre-Rock is rot proof, odourless, non-hygroscopic, will 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.

It is supplied in polythene wrapped packs for short-term protection. For long-term protection these should be stored inside under cover in a dry well ventilated area.

Colour	Greyish Yellow
Range of available thickness's	25, 50, 75 & 100mm
Range of available densities	45, 60, 100 & 140kg/m ³
Fire performance	Class 0 when tested to BS476 Parts 6 & 7 of the building regulations
Operating temperatures	45kg/m ³ = 250°C Continuously 60kg/m ³ = 425°C Continuously 100kg/m ³ = 525°C Continuously 140kg/m ³ = 675°C Continuously

SOUND CONTROL SERVICES

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Acoustic Performance

The slabs work in two distinctive ways to reduce noise, either by impeding the transmission of sound through an element of the structure or by absorption of sound at the surface.

Noise absorption is expressed as a factor between 0 and 1.0. The more sound that a surface absorbs, the higher it's absorption coefficient.

The structure of the fibres in Sound Fibre Slabs make them ideal for use as an absorber, with characteristically high coefficients over a wide frequency range.

Product	Thickness (mm)	Sound Absorption Coefficient					
		125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz
Sound Fibre 45kg (45kg/m ³)	50	0.18	.50	.90	.99	1.00	1.00
Sound Fibre 60kg (60kg/m ³)	75	0.34	0.95	1.00	0.82	0.87	0.86
Sound Fibre 100kg (100kg/m ³)	75	0.40	0.75	0.90	0.80	0.90	0.85
Sound Fibre 140kg (140kg/m ³)	50	0.20	0.75	0.90	0.85	0.90	0.85

Facing Options

We can also supply the slabs with a black or white non-woven tissue facing which conforms to Class 0 fire specification, we also supply slabs with a re-inforced, bright Class 0 foil face (BCO). Other facings are available upon request.

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