



Acoustic and thermal rock fibre slabs.

Description

Rock mineral wool slabs, available in a range of densities from 33 to 200 kg/m³. Standard products are supplied unfaced, but slabs can also be manufactured with a factory applied foil or tissue facing and are also available with a water repellent additive.

Manufactured to a Quality Assurance system which complies with BS EN ISO 9001: 2000.

Sizes and Facings

Standard sizes: 1200 x 600 mm

Thickness: 20 mm up to 250 mm.

A range of facings is available:

Bright aluminium foil which combines vapour sealing and Class 0 surface spread of flame.

Black or white woven glass tissue suitable for painting or untreated for acoustic insulation.

Glass cloth – white, heavy duty woven glass cloth suitable for painting.

Fire Testing

- Non-combustible to BS 476: Part 4: 1970 (1984)
- Foil facings achieve Class 1 in accordance with BS 476: Part 7: 1987 or Class 0 to Building Regulations E15

Features

- Odourless, durable and non-hygroscopic
- Rot proof, does not sustain vermin and will not encourage the growth of fungi, mould or bacteria
- Excellent acoustic properties, up to 50 dB

Applications

Stonewool Slabs are used for a wide range of thermal and acoustic insulation applications in buildings, building services and industry.

Performance

Acoustic

The slab works 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 value between 0 and 1.0 Hz, the more sound that a surface absorbs, the higher its absorption co-efficient.

Example 60 kg Stonewool slab @ 75 mm

| | |
|-------------|--------------|
| 125 Hz 0.34 | 1000 Hz 0.82 |
| 250 Hz 0.95 | 2000 Hz 0.87 |
| 500 Hz 1.00 | 400 Hz 0.86 |

The structure of the fibres in Stonewool Slab makes them ideal for use as an absorber, with characteristically high co-efficients over a wide frequency range.

Vapour permeance

Class 0 facing. Core has a water repellence not exceeding 0.00114 g/sMN (0.02 perms).



Rock fibre slab

Dimensions

| Thickness (mm) | Thermal conductivity (W/mK) | Thermal resistance (m ² K/W) | Slab size (mm) | Slabs per pack | Area per pack (m ²) |
|----------------|-----------------------------|---|----------------|----------------|---------------------------------|
| 100 | 0.035 | 2.85 | 1200 x 600 | 4 | 2.88 |
| 75 | 0.035 | 2.10 | 1200 x 600 | 6 | 4.32 |
| 100 | 0.035 | 1.70 | 1200 x 600 | 7 | 5.04 |
| 50 | 0.035 | 1.40 | 1200 x 600 | 9 | 6.48 |
| 40 | 0.035 | 1.10 | 1200 x 600 | 11 | 7.92 |
| 30 | 0.035 | 0.85 | 1200 x 600 | 14 | 10.08 |
| 25 | 0.035 | 0.70 | 1200 x 600 | 18 | 12.96 |

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