

category	soundproofing
description	acoustic mineral wool
part code	R100 - R250



ACOUSTIC MINERAL WOOL (AMW) is particularly useful as a sound absorbing infill for the reduction of airborne noise in partition walls, between flooring joists and suspended ceilings.

AMW, or Dense Fibre Matting (DFM), consists mainly of silicon-oxide together with a number of other metallic oxides.

It is much more efficient for soundproofing purposes than lightweight thermal insulation, which should ideally not be substituted for high density mineral wool.

AMW is non-flammable and chemically inert and is not adversely affected by any substance it is likely to come into contact with.

Random arrangement of fibres ensures no water penetration in any direction. It is rot-proof, non-hygroscopic, does not sustain vermin and will not encourage the growth of fungi, moulds or bacteria. It will not react with wired plastic or metal wall ties, brickwork or masonry.

It reduces airborne noise through walls and floors and contains 22% recycled material.

Applications

- Acoustic cavity infill between floor joists
- Acoustic cavity infill between stud walls
- Acoustic absorbent infill behind slatted panelling
- Can be used with other products to meet Part E of the Building Regulations

Benefits

- Reduces airborne noise through walls and floors
- Simple DIY installation – easy to cut
- Low cost
- Rot-proof, non-hygroscopic, resistant to water penetration
- Will not encourage growth of fungi, mould or bacteria
- Will not react with wired plastic or metal wall ties, brickwork or masonry
- **22% recycled**
- **Zero ODP and GWP**



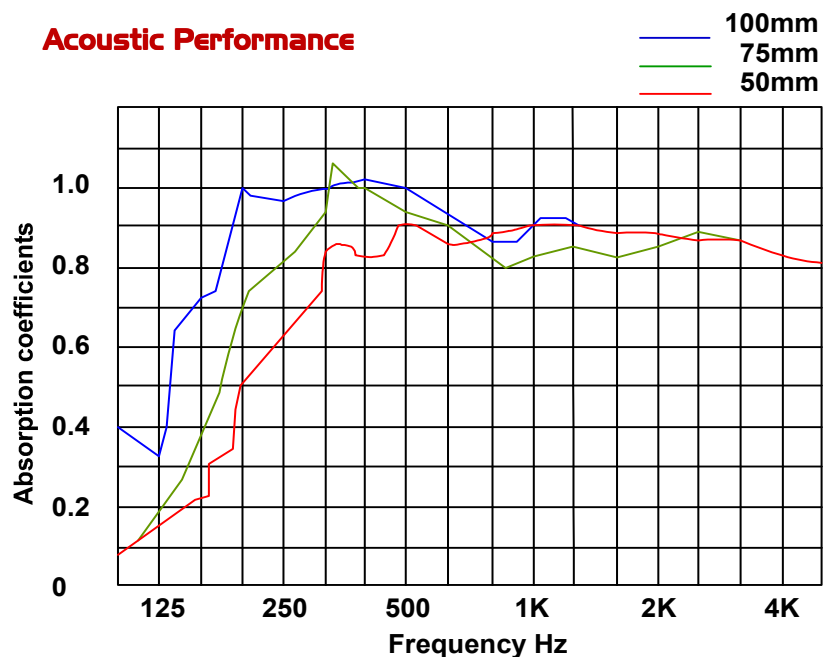
<p>FIRE SAFE</p> <p>Made in temperatures in excess of 1500 degrees means an A1 classification in new EU reaction to fire tests</p>	<p>SOUND INSULATION</p> <p>Excellent sound reduction characteristics to impede the transmission of noise through structures or at the surface</p>	<p>ENERGY SAVING</p> <p>The air trapped between the fibres ensures optimal thermal performance</p>	<p>WATER RESISTANT</p> <p>Impregnated with resin to retain its water repellent properties</p>
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Technical Specification

Product	Acoustic Mineral Wool
Colour	Yellow/beige
Nominal sheet size	1200mm x 600mm
Flammability	A1, Class0, Non-flammable
Thermal conductivity	0.034W/mK
Densities*	45Kg/m ³ , 60Kg/m ³ , 100Kg/m ³ , 140Kg/m ³
Thicknesses*	30mm, 50mm, 75mm, 100mm
Density Tolerance	Manufactured to BS 3958 Part 5 1986

*NB: These thicknesses/densities may be subject to change – check with Sales Team to ascertain sizes/densities currently available.

Acoustic Performance



Acoustic Performance

Supplied as standard in two density grades:

- Our 60kg/m² AMW is a performance acoustic grade mineral wool. It offers the best acoustic absorption due to its specific density (as shown in the graph on the previous page).
- Our 45kg/m² is a standard, lighter version offering a lesser performance for use in less critical situations.

60kg AMW typically provides:

- an increase in the sound insulation performance by up to 5dB when used in a standard stud wall
- a reduction in reverberant noise levels of up to 10dB when fitted under roof constructions
- a reduction in airborne noise levels of up to 4dB when fitted between floor/ceiling joists.

Dense Fibre Matting (DFM)

Slabs manufactured to a higher density than 60kg/m³ are often referred to as Dense Fibre Matting or DFM. They can provide slightly improved acoustic control and are available in 100kg/m³ and 140kg/m³ densities.

This product is approximately twice the cost of our 60kg product and should only really be considered for specialist applications, as twice the cost does not give twice the acoustic performance.

Owen Corning 703 Rigid Fibreglass

We can supply a product with almost the same specification as Owen Corning 703 fibreglass, which is widely used in the USA. For 50mm-thick, quote part code R230 or for 100mm-thick ask for part code R250.

PLEASE NOTE:

When calculating your requirements, please note that you may not require as much material as the total area because of:

- joist/frame thickness
- joist/frame width
- the spacings between structural elements.

The larger the area to be treated the fewer packs you will need; for a small area this is not relevant but over 100m² it can make a difference. As a generalisation, assuming the width of a frame to be 50mm at 600mm spacings, there would be approximately 8% surplus.

Ordering information

Density	Thickness	Slabs per pack	Part code
45kg	30mm	12	R100
45kg	50mm	9	R110
45kg	75mm	6	R120
45kg	100mm	4	R130
60kg	30mm	15	R140
60kg	50mm	8	R150
60kg	75mm	6	R160
60kg	100mm	4	R170
100kg	30mm	8	R180
100kg	50mm	4	R190
100kg	75mm	3	R200
100kg	100mm	2	R210
140kg	30mm	6	R220
140kg	50mm	3	R230
140kg	75mm	2	R240
140kg	100mm	2	R250

NB: These sizes may be subject to change – check with Sales Team to ascertain current availability.