

category	soundproofing
description	acoustic mineral wool
part code	A460, A470 (45kg/m <sup>3</sup> ) A480, A490, A500, A510 (60kg/m <sup>3</sup> ) A560, A570 (140kg/m <sup>3</sup> )



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**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**



Made in temperatures in excess of 1500 degrees means an A1 classification in new EU reaction to fire tests



Excellent sound reduction characteristics to impede the transmission of noise through structures or at the surface



The air trapped between the fibres ensures optimal thermal performance

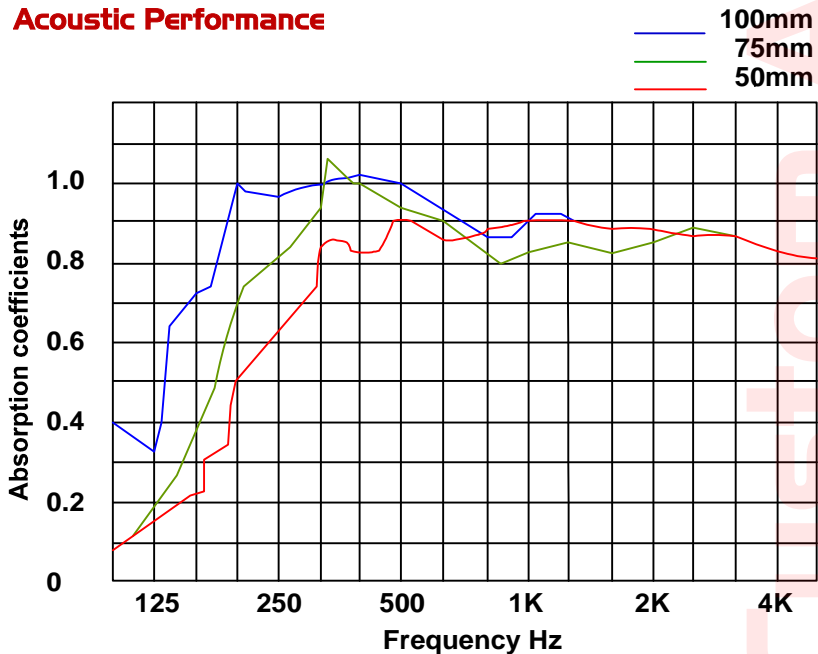


Impregnated with resin to retain its water repellent properties

**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 <sup>3</sup> , 60Kg/m <sup>3</sup> , 140Kg/m <sup>3</sup>
Thicknesses	25mm, 50mm, 75mm, 100mm
Density Tolerance	Manufactured to BS 3958 Part 5 1986

**Acoustic Performance**



## Acoustic Performance

Supplied as standard in two density grades:

- Our 60kg/m<sup>2</sup> 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/m<sup>2</sup> 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/m<sup>3</sup> are often referred to as Dense Fibre Matting or DFM. They can provide slightly improved acoustic control and are available in 100kg/m<sup>3</sup> and 140kg/m<sup>3</sup> 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.

## PLEASE NOTE:

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

- the thickness of the joist or frame
- the width of the joist or frame
- the spacings between.

The larger the area to be treated the fewer packs you will need; for a small area this is not relevant but when you get to 100m<sup>2</sup> plus it can make a difference. As a generalisation, assuming the width of a frame to be 50mm at 600mm spacings, you would have approximately an 8% surplus.

## 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 A560 or for 100mm thick ask for part code A570.

Density	Thickness	Part code
45kg	50mm	A460
45kg	100mm	A470
60kg	25mm	A480
60kg	50mm	A490
60kg	75mm	A500
60kg	100mm	A510
140kg	50mm	A560
140kg	100mm	A570



**A571 - Rabbit wire mesh**

## Associated products

If you want to upgrade a ceiling to 1 hour fire resistance without adding any extra plasterboard below then you can use our wire mesh to hold the mineral wool between the joists. The combination of the secured mineral wool sitting on the wire mesh and the existing ceiling is usually accepted by Building Control as complying with the required fire resistance of a separating floor between flats.

The mineral wool is normally friction-fitted tightly between the joists so wire mesh will not be necessary if working from above. However, the mesh offers a cost-effective and simple method for preventing the mineral wool dropping down before the plasterboard and bars are fitted when working from below.

Rolls are supplied 1.05m wide x 50m long (52m<sup>2</sup>) and this is an **extra strong version** with 31mm hexagonal holes (compared to chicken wire which is thinner and weaker). It is made of 19 gauge wire 0.92mm thick.