

ACOUSTIC MINERAL WOOL



ACOUSTIC MINERAL WOOL is particularly useful as a sound absorbing infill for the reduction of airborne noise in partition walls, between flooring joists and suspended ceilings. AMW 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 not ideally be substituted in place of high density mineral wool. It is non-flammable and chemically inert and is not adversely affected by any substance it may 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.



For example:

A standard 50-75mm x 38mm timber framed stud partition lined both sides with 12.5mm plasterboard gives a sound insulation figure of around 36dB. The same wall, with acoustic mineral wool infill gives a value of up to **44dB**. This material is a must if you wish to increase the performance of a domestic partition without any loss of room space and will be much more beneficial than simply adding another sheet of plasterboard to the existing studwork.

It is also worth noting that increasing the stud depth to 75mm and adding 2 layers of 12.5mm plasterboard to both sides only gives an averaged improvement of around 4dB over that of adding acoustic infill to a standard partition. Adding two sheets of plasterboard to one side only will barely have any effect at all. In domestic situations, adding plasterboard to the other side of the stud is usually impractical so resilient bars should be used, to hang the two sheets of plasterboard, if one wishes to further increase performance because they are extremely effective even when installed on one side of the stud only.

Supplied in two density grades:

Our 60kg/m³ is a performance acoustic grade version. This offers the best acoustic absorption due to it's specific density (as shown on the graph below).

Our 45kg/m³ is a standard lesser performing lighter version.

ACOUSTIC PERFORMANCE

60kg AMW, when used in a standard stud wall, can increase the sound insulation performance by up to 6dB

60kg AMW typically provides a reduction in reverberant noise levels of up to 10dB when fitted under roof constructions.

60kg AMW typically provides a reduction in airborne noise levels of up to 3-4dB when fitted in-between floor/ceiling joists.

GENERAL PHYSICAL DATA

Flammability: Non-combustible
Slab Size: 1200mm x 600mm
Thickness: 25mm, 50mm, 75mm and 100mm
Density: 45kg/m³ and 60kg/m³

We also supply acoustic mineral wool in a wide range of other thicknesses and densities:-

Thicknesses of 30,40 and 60mm are also available subject to 5pack min. order.

Densities of 33Kg/m³, 80Kg/m³, 100Kg/m³, 140Kg/m³ and 200Kg/m³ are also available subject to 5 pack min. order.

