

### Introduction



### Lamaphon BM 1080

Lamaphon BM1080 is a thin, flexible polymeric sound barrier mat loaded with heavy mineral salts, with a wear resistant skin and hessian substrate for added strength and dimensional stability.

Combining a high surface mass with 'limp' mechanical characteristics, the product offers optimum acoustic performance.

Primarily designed to improve the sound insulation value of existing panels of metal, wood, plastic, GRP, etc. It is particularly effective in reducing the effect of coincidence dip resonance found in these stiff, lightweight materials.

Additionally the product may be used: on its own as a flexible void closure material; in sandwich constructions between boards; as a membrane in frequency selective sound absorbers or as an overlay treatment to materials or constructions with perforations or minor gaps resulting in potential sound leakage.

BM1080 is robust, clean & simple to use and can be readily cut to size with a sharp knife.

The product can be used in multiple offset layers, which both increases the total applied mass and negates the normal requirement for overlap joints to maintain acoustic integrity.

### Applications

The product is used in many varied applications and industries including construction, marine, automotive, and OEM.

Some applications use the product as a component layer within a bespoke Lamaphon composite material. The barrier is then optionally combined with sound absorbers, spacing layers, facings and self-adhesive backings.

Common construction applications include: high performance wall and partition constructions; overlays to timber intermediate floors; cladding to external ducts/ pipes and for temporary screens on construction sites.

### Installation

In general through mechanical fixing is preferred. In vertical applications if the through fixing represents the sole means of permanent support for the material, they should be combined with load spreading washers or straps.

Please contact our technical section for advice on the use of adhesives.

### Specification

Product	Lamaphon BM 1080
Colour	Black
Surface weight	10.0 kg / m <sup>2</sup> +/- 0.5 kg / m <sup>2</sup>
Nominal thickness	4.5mm
Tensile strength	350 Newtons / 25mm
Flammability	Self-extinguishing (FMVSS302)
Continuous working temp	Approx 65°C

### Acoustic Performance

Mean SRI = 28 dB

Our technical sales department would be pleased to advise on anticipated performance when used in conjunction with other acoustic materials.