

Polymeric Barrier Mat

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Issue: 1

GIS-BM is a polymeric vinyl material manufactured using natural minerals and binders to achieve a dense barrier mat for acoustic requirements that is lead free.

PRODUCT FUNCTION

GIS-BM is designed to improve sound reduction by introducing a lead free mass. It works as a layer with existing materials or as a composite (see data sheets for polymeric quilts and pipe section).

GIS-BM is effective in reducing coincidence dip resonance when used with lightweight materials such as plywood's and composite panels suitable for use on pump coverings, fan housings, pipework and offshore boat engine compartments.

TECHNICAL DATA

GIS-BM has a plain black finish however it can come with silver, white or black class O foil on one side and with or without a self adhesive layer. The product has a direct temperature operating range of -35°C to +65°C (will slow softening) if it is to be used at a higher temperature then use it as a polymeric quilt or pipe section (see separate data sheets). Thermally stable to +90°C in 3kg with a foil face will give a class O fire rating to suit building regulations.

ACOUSTIC PERFORMANCE GUIDE FIGURES

GIS-BM variants are based on mean sound reductions per m² (sealed and fitted correctly with Guardian Acoustic Mastics).

- 2.5kg Plain Barrier 6-10dB
- 5kg Plain Barrier 20-22dB
- 7.5kg Plain Barrier 23-24dB
- 10kg Plain Barrier 26-28dB

FINISHES & SIZES

All facings are available in 3kgm², 5kgm², 7.5kgm², 10kgm² and 15kgm² density standard 2000x1200mm.

- 1) Available with plain polymeric black. Order ref: GIS-BM-PLAIN-(DENSITY)
- 2) Available with silver class O foil on one side. Order ref: GIS-BM-SFI-(DENSITY)
- 3) Available with black class O foil on one side. Order ref: GIS-BM-BF1-(DENSITY)
- 4) Available with white class O foil on one side. Order ref: GIS-BM-WF1-(DENSITY)

If a self adhesive backing is required please state so at the time of ordering.

Other sizes and roll lengths are available on request.

Sound Transmission Loss dB (ISO R140)						
Product	100Hz	200Hz	500Hz	1000Hz	2000Hz	4000Hz
5kg Plain	12	12.5	20	28	29	34
10kg Plain	20	20.5	29	31.5	36.5	40

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