



GUARDIAN INSULATION SOLUTIONS

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GUARDIAN 4 ACOUSTICS SOUND DAMPING MEMBRANE

G6A-SDM is a high density membrane manufactured from bitumen modified core with a self-adhesive backing used as an anti-resonant material, being a lead substitute.

Soundproofing reinforcement in construction drywall construction (plasterboard) and general walls and floor construction and designed in industrial applications for ductwork, plenums, vessels, machine enclosures and pipework lagging aids Db reduction,

Also suitable as sound insulation and vibration reduction in metal structures.

As well as designed for various acoustic devices such as doors, screens, noise barriers, ducting and rain water noise.

Sizes available:

| TECHNICAL DATA (taken as average against 6.0kg) | VALUE | UNIT | STANDARD |
|--|--------|-------------------|------------|
| Thickness tolerance | <8 | % | EN 823 |
| Length and width tolerance | <6 | % | EN 822 |
| Nominal Mass | >6 | kg/m ² | EN 1849-1 |
| Tensile strength: longitudinal | 350 | N/5 cm | EN 12311-1 |
| Tensile strength: transversal | 250 | N/5 cm | EN 12311-1 |
| Resistance to tearing (nail shank) | 180±50 | KN/m | EN 12310-1 |
| Dimensional stability at elevated temperature | stable | - | EN 1107-1 |
| Reaction to fire | F | Euroclass | EN13501-1 |
| Sound reduction index improvement between plasterboard, ΔR | 4 | dB | EN 140-16 |
| Insulation improvement to 125 Hz (rigid elements) | >6 | dB | EN 140-16 |
| Insulation improvement to 125 Hz (like panel absorber) | >9 | dB | EN 140-16 |

| | |
|-------------------------------------|---------|
| | 1 x 6kg |
| THICKNESS (mm) | 4.5 |
| AVERAGE WEIGHT (kg/m ²) | 6/6.5 |
| SOUNDPROOFING (Rw;dB) MAX | 55 |
| DIMENSIONS (m) | 7 x 1 |





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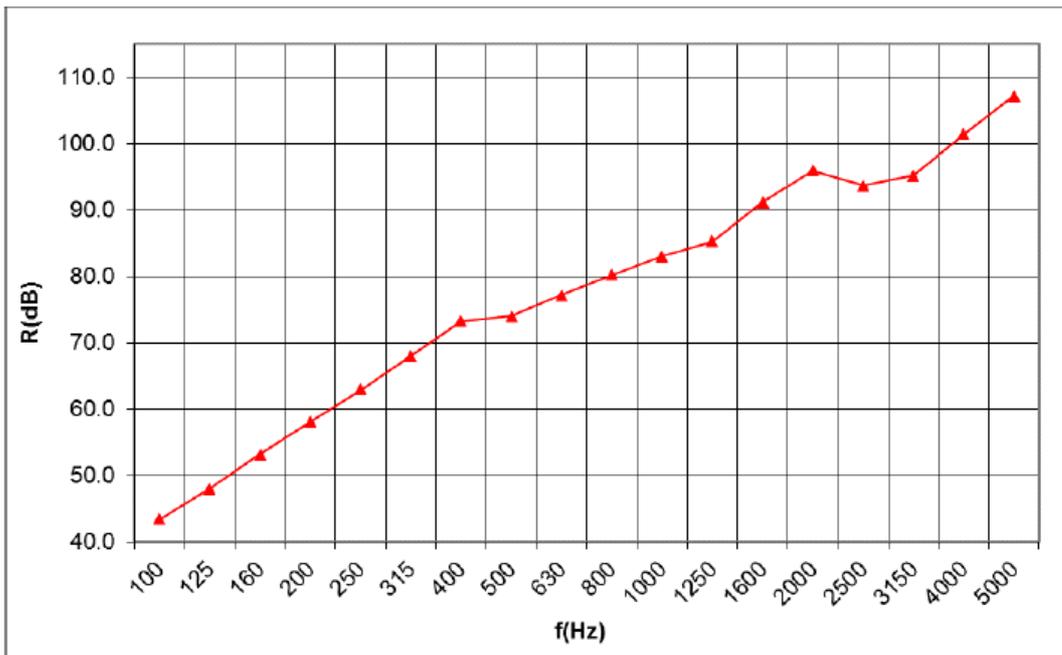
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Chart Test as Description Below



| F(Hz) | Rating |
|-------|--------|
| 100 | 43.4 |
| 125 | 48.0 |
| 160 | 53.2 |
| 200 | 58.1 |
| 250 | 62.9 |
| 315 | 68.0 |
| 400 | 73.3 |
| 500 | 74.0 |
| 630 | 77.2 |
| 800 | 80.3 |
| 1000 | 83.0 |
| 1250 | 85.3 |
| 1600 | 91.2 |
| 2000 | 95.9 |
| 2500 | 93.7 |
| 3150 | 95.2 |
| 4000 | 101.4 |
| 5000 | 107.2 |

R_w = 72 dBA

R_A = 68 dBA

Self-supporting partition formed by double structure of profiles of galvanized steel sheet of 48 mm wide, filled with acoustic absorbent of polyester fiber 60kgm³ x 40 mm thick 4cm WOOD CEMENT PANEL 600 + double laminated gypsum sound board 15 mm thick bolted to each side of the profile with two acoustic sheets (damping sheet of high density of 4.5mm of thickness and 6.0 kg / m² of weight) between both plates.

| 0.85mm Mild Steel Plate | Sound Transmission Loss (dB) to 2 Decimal Places | | | | | |
|-------------------------------|--|-------|-------|--------|--------|--------|
| | 125Hz | 250Hz | 500Hz | 1000Hz | 2000Hz | 4000Hz |
| 2 x 6.0kg Damp Mat | 27.74 | 32.33 | 32.51 | 33.65 | 41.48 | 43.51 |

Theoretical Calculations based on Labin test site (conditions will effect results)

