

M.A.D. 6 SELF-ADHESIVE

6mm Self-Adhesive bituminous membrane for low frequency acoustic insulation.



EPD[®]



EPD S-P-01923

Bituminous sheet reinforced with mineral fillers, coated on one side with a self-adhesive mastic finished with an anti-adherent film and on the other side with a high-density polyethylene film. Acoustically it functions as a plastic element between rigid elements, being an effective substitute for lead; between spring elements it functions as a membrane resonator (typical absorber at low frequencies).

Presentation

- Length (cm): 450
- Width (cm): 100
- Thickness (mm): 5.4
- Surface (m²): 4.5
- Product code: 610018

Technical Data

Concept	Value	Standard
Mass per unit area (nominal) (kg/m ²)	9	EN 1849-1
Improvement to airborne noise on laminated gypsum board partition, ΔR (dBA)	6	EN 140-16
Insulation improvement at 125 Hz (between rigid elements) (dB)	10	EN 140-16
Tolerance (%)	<10	EN 1849-1
Poisson coefficient	0.48	-
Young's module (kPa)	25	EN 527-2
Reaction to fire	C s3 d0	EN 13501-1

Concept	Value	Standard
Resistance to tearing (nail shank) (N)	180 ± 50	EN 12310-1

Environmental Information

Concept	Value	Standard
Volatile organic compounds (COV's) (µg/m ³)	50	ISO 16000-6:2006
Content of recycled raw material (%)	22	-
Post-consumer recycled content (%)	60	-
Manufactured in	Fontanar - Guadalajara (España)	-

Standards and Certification

- The sound certifications are the result of tests in an approved laboratory.
- *For any questions about information on the tests, please consult our Technical Department.

Laboratory	Test (EN 140-3) No	Result (EN 717-1)
Danosa	DAN-001-MAD01	RA = 56,4 dBA

Scope

- It is used in industrial insulation as an anti-resonant material, providing acoustic mass to galvanised steel sheets.
- It is used between rigid elements, such as gypsum plasterboard, to improve low-frequency insulation in both vertical and horizontal walls.
- Used between spring elements to increase the overall isolation of the treatment, improving significantly at low frequencies.

Advantages & Benefits

- By adhering to galvanised steel sheets, it improves the resonance of the sheet.
- By increasing the insulation at low frequencies, cavities used can be kept to a minimal size.
- By increasing the mass of lightweight walls, a higher acoustic performance is achieved.
- It shifts the resonance frequencies of the rigid elements making the insulation stronger.
- Between insulators, it transforms acoustic energy into dynamics, improving insulation at low frequencies.
- Easy to install by stapling to the surface or using M.A.D. Self-adhesive.

Instruction for Use

Preliminary operations

- Following the instructions and recommendations of the plasterboard manufacturers, the profiles

should be fixed to the substrate including sealing strips.

- On the ceiling, the mechanical strength of the damper and profile system must first be checked.
- The first plasterboard is then fixed to the supporting structure with a sheet metal screw.
- Make sure that this board is dry, clean and free of foreign bodies.

Laying of Danosa M.A.D.6 self-adhesive Acoustic Membrane:1. On the wall

- Start by cutting complete pieces of Danosa Acoustic Membrane M.A.D.6 self-adhesive to the same size as the height of the partition wall. The remnants will be used in the smaller panels or for finishing.
- The anti-adhesive film is removed from the top of the piece.
- Once the piece has been placed square to the facing, the membrane is pressed tightly against the laminated plaster, avoiding any wrinkles.
- In the same way, the anti-adherent film is removed while the membrane is pressed to the plasterboard until the cut piece is completed.
- To maintain the continuity of the membrane, the MAD has a recess at the edges that must be matched.
- The second plasterboard is screwed to the supporting structure with sheet metal screws.
- It is important to butt the joints with the first board, to avoid loss of watertightness.

2. Ceiling

- Start by cutting pieces of self-adhesive Danosa Acoustic Membrane M.A.D.6 transversally to the roll at a distance of 1.2m. This produces pieces of 1 x 1.2 m². The remnants will be used in the smaller panels or for finishing.
- It can be applied with a mechanical fixing system or with gluing systems following the steps described in the wall application method.
- It is possible to work directly on the ceiling by fixing the membrane to the first plasterboard or, on the other hand, to work on the floor by applying the membrane to the second board.
- In the latter case, after fixing the membrane with staples or glue, the membrane and the second board are lifted by means of a mechanical lift.
- This assembly is then screwed to the primary-secondary roof structure with sheet metal screws. It is important to butt the joints with the first plate to avoid leakage.

Note: DPS: Sound Insulation Installation Manual. Details of Singular Points.

Indications and Important Recommendations

- For very heavy ceilings, it is recommended to use a ceiling grid system consisting of primary and secondary profiles. This system helps to spread loads if any shock absorber anchorage point breaks. See SPD 4.3.
- The ceiling dampers are always anchored to the floor joist or a reinforcing construction element. See SPD 4.2
- The facade cladding in a building must end at the dividing wall between different users. See SPD 2.1
- In dry wall cladding for heights over 4 m, we recommend the use of elastic fasteners. See SPD 2.5
- Gypsum plasterboards must always be anchored to the galvanised steel auxiliary structure, never use plate-plate screws.
- Partition walls must be plastered with at least 1 cm. See SPD 3.
- Partition walls should not be anchored to structural elements (except for roofs in dwellings) such as pillars and facades. In order to maintain the stability of the system, the tiling element must be bonded to the internal floating partition walls.
- It is not possible to perforate with installations in the proposed solution in commercial premises located in tertiary buildings or commercial ground floors in residential buildings. See SPD 2.3 and SPD 4.4.

- Impact sound insulation must be used. See "Sound Insulation Solutions Manual" sheets from AA01-AA04.
- It should be borne in mind that this product forms part of A Sound Insulation system, so the Danosa Building Solutions Catalogue, sheets AA13 to AA15; AA23 to AA25; and AA30 to AA33, Installation of Sound Insulation, should be taken into account. Details of Singular Points (SPD), as well as the rest of the Danosa documentation.
- In the case of central heating or water intake installations, decoupling by means of a cross-linked polyethylene shell. See SPD 1.2

Handling, storage and preservation

- Consult the product safety datasheet.
- According to the EEC directives on labelling hazardous substances (GefStoffV), special labelling is not required.
- Material at room temperature can be handled without special precautions as it is stable at room temperature.
- The product, as such, is not classified as hazardous for transportation.
- Under normal conditions, the product is not hazardous.
- In application, the appropriate measures must be taken when handling machinery (mechanical fixing with staples) or for the application of adhesives via solvent.
- Temperatures above 80°C alter the material and accelerate its degradation.
- Product components do not degrade significantly over time
- Keep away from flames and sources of heat.
- It is marketed as rolled sheets in coil form and transported loose or grouped on pallets, and is stable at room temperature and during transportation.
- In all cases, the Occupational Safety and Hygiene standards, as well as the standards of good construction practice, must be taken into account.
- For further information, please contact our Technical Department.

Notice

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