

## MEMBRANA ACÚSTICA DANOSA M.A.D.4 ERF

Membrana Acústica Danosa M.A.D.4 ERF is a high density bitumen modified membrane specifically designed to behave as an anti resonant material.



It is an efficient substitute for lead sheets. Between porous absorbers materials works like a panel absorbers (most efficient at absorbing low frequencies).

### TECHNICAL DATA

TECHNICAL DATA	VALUE		
Thickness tolerance	< 10	%	EN 823
Length and width tolerance	< 5	%	EN 822
Nominal mass	> 6	Kg/m <sup>2</sup>	EN 1849-1
Tensile strength: longitudinal	200	N/5 cm	EN 12311-1
Tensile strength: transversal	175	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	B s3 d0	Euroclase	EN 13501-1
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

### STANDARDS AND CERTIFICATION

Acoustic certifications resulting from approved laboratory tests.

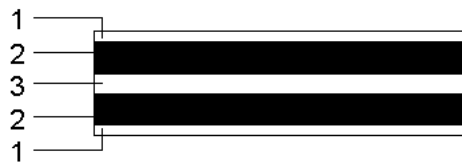
Laboratory	Test (EN 140-3) No	Result (EN 717-1)
L.G.A.I.	97.017.996	R <sub>w</sub> = 33 dB
L.G.A.I.	98.012.316	R <sub>w</sub> = 49 dB
L.G.A.I.	98.012.317	R <sub>w</sub> = 57 dB
L.G.A.I.	98.012.318	R <sub>w</sub> = 68 dB
LABEIN	B130-134-H91	R <sub>w</sub> = 65 dB
LABEIN	B130-134-H94	R <sub>w</sub> = 66 dB
DANOSA	95/MAD/008	R <sub>w</sub> = 39 dB

### SCOPE

- Used between rigid elements such as plasterboards to improve the low frequency insulation.
- Used between spring elements (fibers, rock wool) to increase the overall insulation treatment, improving significantly against low frequencies through the membrane effect within mass-spring-mass system.
- It used as antiresonant material in industrial acoustic insulation, providing acoustic mass to the galvanized steel sheet.

## PRESENTATION

PRESENTATION	VALUE	UNIT
Length	6	m
Width	1	m
Total thickness	4	mm
Nº rolls per pallet	36	ud
m <sup>2</sup> per pallet	180	m <sup>2</sup>
Product Code	610031	-



1. polyethylene film
2. modified bitumen
3. fibreglass (60 g/m<sup>2</sup>)

## INSTRUCTION FOR USE

An installation of the Membrana Acústica Danosa M.A.D.4 ERF is shown in the following pictures:



1. Staple on 1st plate (wall)
2. Place the second plate (wall)
3. Staple on 1st plate (floating ceiling)
4. Set the 2nd plate (floating ceiling)

## INDICATIONS AND IMPORTANT RECOMMENDATIONS

- It is recommended that the Membrana Acústica Danosa M.A.D.4 ERF is fixed by staples on plasterboard or wooden board, spikes between porous materials and adhesive to metallic surfaces.
- Check the product's technical sheet on safety.
- For further information, please contact our technical staff.

## WARNING

The information that appears in the following document makes reference to the uses and utilities of danosa's products and systems, and it is based on the knowledge that have been learnt until present, by Danosa. This is only possible if products have been stored and used in an appropriate way.

Nevertheless, Danosa is not responsible for unsuitable uses of the products neither any other facts, such as meteorological facts. So Danosa is just responsible for the quality related to the provided products.

Danosa reserves the right to carry out modifications without previous notice.

The values that appear in the technical sheet are the results of the tests that have been performed in our laboratory. April 2012.

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