

## MEMBRANA ACÚSTICA DANOSA M.A.D.4

Membrana Acústica Danosa M.A.D.4 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	UNIT	STANDARD
Thickness tolerance	< 10	%	EN 823
Length and width tolerance	< 5	%	EN 822
Nominal mass	> 6,5	Kg/m <sup>2</sup>	EN 1849-1
Young's module	70	kPa	EN ISO 527-2
Poisson coefficient	0,48	-	-
Resistance to tearing (nail shank)	180±50	KN/m	EN 12310-1
Reaction to fire	D s3 d0	Euroclase	EN 13501-1
Sound reduction index improvement between plasterboard, ΔR	5	dB	EN 140-16
Insulation improvement to 125 Hz (rigid elements)	> 8	dB	EN 140-16
Insulation improvement to 125 Hz (like panel absorber)	> 9,5	dB	EN 140-16

### INFORMACIÓN MEDIOAMBIENTAL

Environmental Information	Declared Value	Units	Norm
Content of recycled raw material	15	%	-
Pre-consumer Recycled Content	0	%	-
Post-consumer Recycled Content	60	%	-
Manufacturing Location	Fontanar, Guadalajara (España)	-	-
Volatile organic compounds (VOCs)	50	µg/m <sup>3</sup>	ISO 16000-6:2006.

### STANDARDS AND CERTIFICATION

Acoustic certifications resulting from approved laboratory tests.

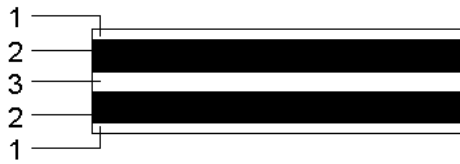
Laboratory	Test (EN 140-3) No	Result (EN 717-1)
Audiotec	CAM19080072/AER	R <sub>w</sub> = 58 dB
L.G.A.I	98.012.316	R <sub>w</sub> = 49 dB
L.G.A.I.	98.012.317	R <sub>w</sub> = 57 dB
L.G.A.I.	98.012.318	R <sub>w</sub> = 68 dB
LABEIN	B130-134-H91	R <sub>w</sub> = 65 dB
LABEIN	B130-134-H94	R <sub>w</sub> = 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
N° rolls per pallet	28	ud
m <sup>2</sup> per pallet	168	m <sup>2</sup>
Product Code	610034	-



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



Decree No. 2011-321 of 23 March 2011  
the Ministry French Ecology, Sustainable  
Development, Transportation and Housing

## INSTRUCTION FOR USE

An installation of the Membrana Acústica Danosa M.A.D.4 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 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

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