Acustic Mat MA

Absorving complexes

vibcon®

Vibroacústica Control y Aislamiento S.L.

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Information

MA Acoustic acoustic mat is a bilayer element, formed by a sheet of high density damping (LA) adhered to a blanket composed of cotton fibers and linked by a recycled and fireproof textile phenolic resin bonded.

These two elements provide to the product several advantages over homogeneous acoustic elements functioning as a membrane resonator (insulator at low frequency) with porous material on one side (insulation at medium and high frequencies).

Both compounds show great difference elements in their elasticity and brittleness, it provides a synergic effect, because its properties improves better than if they work separately.

Models and formats

Model	Kg/m^2	Thickness (mm)	Format
MA 55	5,6	12,5	Roll of 5,5 x 1.2 m
MA 55A (asfáltico)	5	18	Roll of 5 x 1 m
MA 75	7,6	14	Mat of 5,5 x 1.2 m

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Physic analysis MA55 y MA 75

Isolation Index

Hz	dB One layer	dB Two layer
125	5	10
250	10	15
500	18	22
2k	30	45
4k	35	42

Characteristics

Property	Value
Tensile strength (UNE104-281/6.6)	>30N/cm^2 (absorbing mat)
Thermal conductivity coefficient	00.037 W/m^{o}c
Work temperature	
Fire resistance	self-extinguishing ISO3795 FMVSS302

Physic analysis MA 55A

Thecnical data	VALUE	UNIT	NORM
Sound insulation between bricks with simple hollow	47.6	dBA	EN 140-3 EN 717-1
Insertion loss in downspouts	20	dBA	-
Thickness tolerance	< 5	%	EN 823
Tolerance length and width	< 5	%	EN 822
Density damping mat	3.8	kg/m^2	-
Density geotextile blanket	1.2	kg/m^2	-
Work temperature	-20 / +70	^{o}C	-
Dimensional stability	0	%	EN 13164
Burning behavior	F	Euroclase	EN 13501-1
Thermal resistance of the assembly	0.55	m^{2}K/w	-

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Use

SUPPORT

It supports all common types of construction supports. The support should be regular, clean and dry, preferably plastering. If the plaster is old, you should check the status of this to avoid adhesion problems with the MA.

PLACEMENT

Applying an adhesive based on contact adhesive with low solvent content (Colavib) to the support and the panel on the side of geotextile.
Leave 20 minutes. Face MA on the support by the geotextile face and place it.

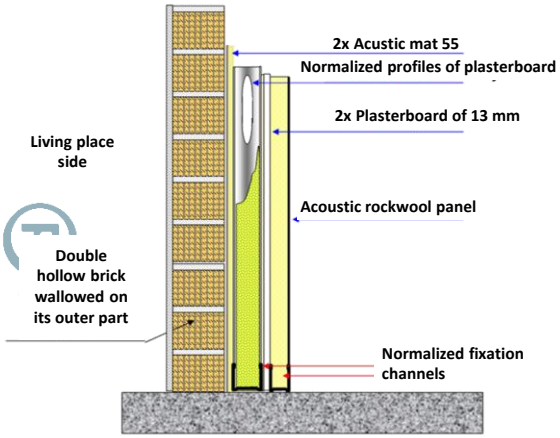
OVERLAPS

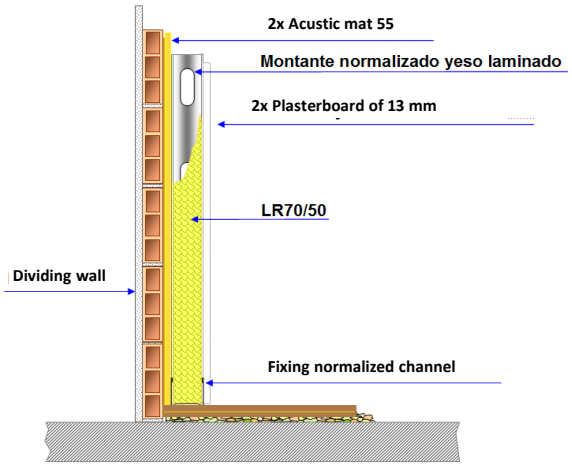
Each plate and roll have an overlap of 5 cm in the consecutive sides. Overlaps are welded with hot air or by Colavib or similar adhesive. Efforts should be made in the well sealed of the overlaps, as small openings can considerably reduce the effect of acoustic insulation.

Accessories	Aplication	Consume aprox.	Format
Colavib	Adhesive for the adhesion of th MA	750 gr/m^2	Tin of 5kg and 25kg.

Aplication examples:

- In plasterboards





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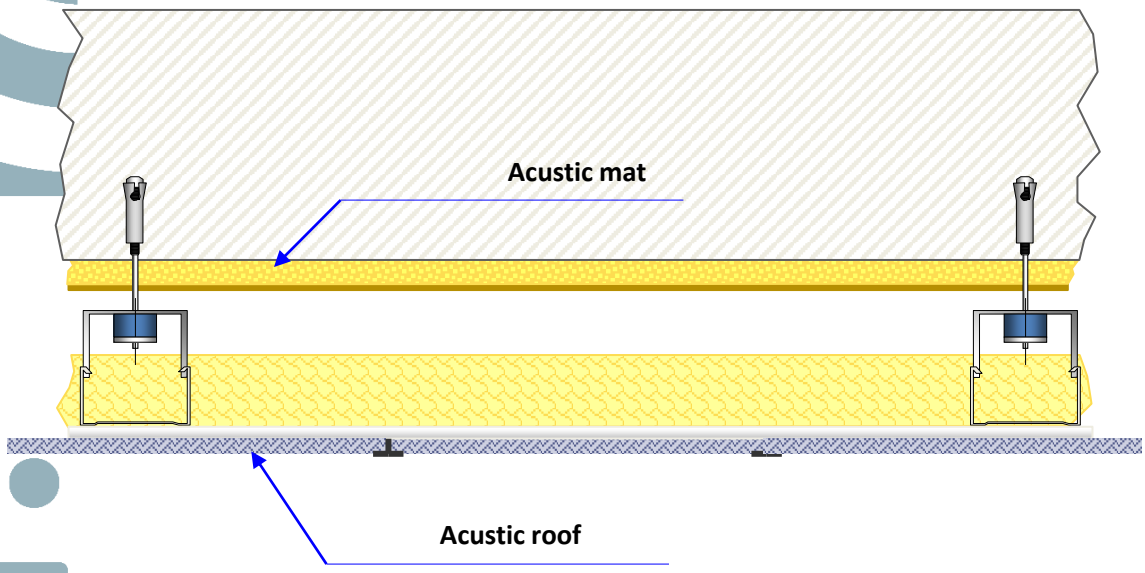
Use

• In forged



Aplications

• Inside body treatment and general machinery racks for damping and isolation of noise radiated by vibrating surfaces.

• Absorption lines to silence the noise air passage. Their fibers as it textile nature are not as harmful as mineral fibrous materials (rock wool and fiberglass).

•Allows execution of double walls by an existing wall cladding, either metal, brick or plasterboard. Moreover its damping lamina improves the watertight of the wall avoiding insulation losses because of cracks or openings. If the air doesn't pass through neither the noise.

•Sound insulation of drainpipes.

Application sectors

• new construction and rehabilitation

• Machine rooms in buildings and industrial production centers.

• Sports complexes, cinemas and public buildings, shopping centers, etc.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