



ACUSTISOL

Soundproofing

Insulation of Vibration and Impact Noise.

PRESENTATION

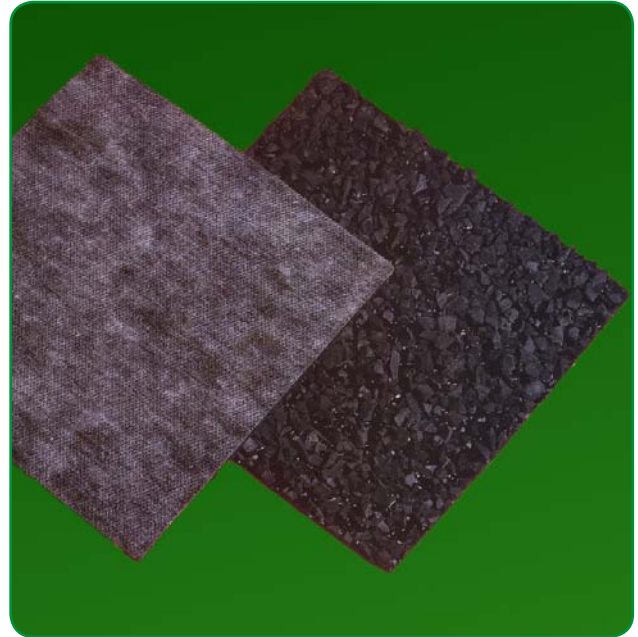
Acustisol is a damping insulation material composed of an elastomeric layer and a substrate made up of fragments of rubber which give it the damping characteristic of a vibration absorber and the rigidity necessary for good low load performance.

ADVANTAGES

Material made of recycled rubber. Easy to apply. Good performance in terms of impact noise and vibration reduction. Excellent quality/price ratio.

APPLICATIONS

Highly recommended for insulating floors and walls of main building structures against structural and solid vibrations. Inertia bases. Floating baseplate.



TECHNICAL DATA

- Base material:** Flexible bitumen.
- Damping material:** Rubber.
- Workload:** 100-500 kg/m².
- Dimensions:** 5,000 x 1,000 mm rolls.
- Thickness:** 8 mm.
- Weight:** 5 kg/m².
- Work frequency:** > 33 Hz.
- Reduction at 125 Hz of impact noise:** 27dB.

PICTURES



f (Hz)	ΔL_w (dB)	ΔL_w (dB)
125	27	26
250	22	24
500	17	20
1K	17	16
2K	32	23
4K	21	16

	Acustisol
Reduction of the overall vibration pressure level:	20 dB
Reduction of the overall impact noise pressure level ΔL_w :	19 dB

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INSTALLATION INSTRUCTIONS

On-site preparation

Surfaces should be free of debris and there should be no irregularities of over 5mm/cm² in order to prevent an excessive deflection of the elastic layer which might cause an acoustic bridge. A uniform layer of mortar may be applied if necessary.

Acustisol Assembly

A layer of **Acustisol** is applied with a roller with the smooth side of the asphalt material facing up and the granulated side in contact with the ground, avoiding empty corners and ensuring total continuity between joints. Where the surface meets vertical elements (walls, pillars, pipes crossing the floor, etc) the material shall be raised 20cm around or along the element to avoid contact with the concrete.



Piping (water, downpipes, etc) which cross the concrete slab and the **Acustisol** should be enveloped with a protecting facing to avoid coming into contact with the concrete (perimeter baseboard). Horizontal service piping should be installed under the **Acustisol**.

Protective plastic

In order to avoid a possible infiltration of concrete through the **Acustisol** joints, a plastic sheet with a thickness of over 100 microns should be placed over the entire surface. Joints should overlap by at least 10cm and should overhang the baseboard by 20cm on vertical elements.

Concrete slab

We recommend a minimum 4cm thick concrete slab (minimum workload of 100 kg/m²) with a mesh (6mm to 8mm diameter rods with a 15cm x 15cm grid depending on the weight supported by the concrete slab).

SKETCHES AND PLANS

Installation sketches

