

SONOBLOCK



SONOBLOCK is a thin, but strong, insulating acoustic panel, carefully made from wood fiber, processed into a sheet form, with a corrugated structure, filled with an acoustic additive based on quartz sand, distributed evenly. Installation of these panels is provided in places where sound insulation is important.

Cellular cardboard filled with calcined quartz sand combines three principles of sound insulation:

- 1.** Mass is a mineral filler in a freely compressed state, in other words, it is heavy sand that absorbs the energy of sound waves.
- 2.** Plasticity is a cellulosic framework that, yielding to the pressure of sound waves, absorbs part of their energy.
- 3.** Multi-layering – alternating layers of different shapes and densities significantly reduces the noise level, since when moving from one medium to another, part of the energy of the sound wave is inevitably lost.

Thus, in a relatively simple and inexpensive way, a significant result in reducing the level of all three types of noise is achieved.



1. Impact - reduction of the level to 75% (33 dB).

2. Air - reducing the level to 85% (36 dB).

3. Sound absorption. Acoustic noise manifests itself as an echo. This type of noise is not often found in modern living spaces, because it is easily absorbed by interior items. Studios, movie theaters, etc., often have to deal with this type of noise. It is in this case that noise-absorbing materials are the most effective.

COMPOSITION



1. Multilayer cellulose corrugated frame.
2. Fine quartz filler.

SPECIFICATIONS

	SONOBLOCK 12	SONOBLOCK 14
Weight	17,5 kg/m ²	20,4 kg/m ²
Thickness	12 mm	14 mm
Width	0,8 m	
Length	1,2 m	
Surface area	0,96 m ²	
Impact noise reduction	33 dB	
Airborne noise reduction	36 dB	
Static load	40 t/m ²	

ОСОБЕННОСТИ И ПРЕИМУЩЕСТВА

Due to their design features, as well as the materials used for manufacturing, **SONOBLOCK** panels have the following advantages.

1. Environmentally friendly.
2. Easy to install.
3. Suitable for all types of insulation.
4. They save space due to their small thickness.
5. Installation can be carried out directly on building structures without creating sound bridges.
6. Universal: used for insulating walls, ceilings, floors, partitions.
7. Substitute for “floating floors” and cement screed.

Important!

At the same time, **SONOBLOCK** panels easily absorb moisture. Therefore, they cannot be stored or installed in a room with high humidity.

AREAS AND METHODS OF APPLICATION

The **SONOBLOCK** product is used as a layer in the construction of thin soundproofing systems of walls and ceilings to increase their efficiency. These products effectively counteract impact and airborne noise with minimal loss of usable area. Produced using innovative technology based on environmentally friendly raw materials, **SONOBLOCK** soundproofing panels provide high-quality sound insulation in civil and industrial facilities in all types of premises.

Installation of panels must begin with surface preparation. It is necessary to seal the joints between the slabs, potholes, cracks, holes and voids. All this must be sealed with plaster mortar. The smoother the surface, the better and more securely the **SONOBLOCK** panel will adhere to it. After this, you need to wait until the plaster solution dries well.

Glue is applied to the prepared surface evenly, without gaps. For reliable insulation, the panel must lie flush against the surface. The joints of the panels must be carefully sealed with sealant*, and then a special self-adhesive tape for sound insulation is glued along the joints of the panels.

If more reliable fastening is required, **SONOBLOCK** panels are additionally secured with special polymer dowels. This prevents the formation of sound bridges.

*Non-flammable one-component silicone sealant is designed for sealing joints and joints in structures to reduce the transmission of sound vibrations, filling and sealing seams, crevices and cracks between joints of dense materials.



ADHESIVE TAPE

Designed for gluing the cut area of **SONOBLOCK** soundproofing panels and gluing panel joints during installation.

SONOBLOCK panels are quite easy to cut with a jigsaw, grinder or even construction knife. But after the cut, the ends of the panels must be covered with tape.



DOWEL NAIL

The dowel-nail is designed for mounting **SONOBLOCK** panels through the substrate, directly to the wall. Used in soundproofing structures without sheathing (direct installation).

Self-driving dowel - nail is made of a special polymer material and has a low transmission coefficient of sound vibrations, which ensures the absence of sound bridges in the soundproofing structure.

STORAGE AND TRANSPORTATION

SONOBLOCK panels must be stored in a dry place. Away from high humidity or direct exposure to moisture.

Panels must be brought into the environment where they will be installed at least 24 hours prior to installation. This acclimatization period allows the panels to adapt to environmental conditions, optimizing their performance and sound absorption efficiency.

To avoid bending, **SONOBLOCK** panels must be placed in a horizontal position during storage, handling and transportation.

By strictly following these storage guidelines, users can maximize the performance and longevity of the panels.