



Flooring acoustic panels

SONOpanX® flooring acoustic panels are effective, light and easy to cut and install.

However, to ensure better results and customer's satisfaction, the following instructions should be well respected.

General instructions

SONOpanX® acoustic panels and related material should always be stored, handled and installed as per manufacturer's recommendations. In any situation in which instructions are not clearly understood, contact manufacturer's representative prior to proceeding with the installation. If a particular application is not listed below, contact a professional or a manufacturer's representative prior to proceeding with installation.

Additional information is also available on SONOpanX®'s page at: www.sonopan.com

Responsibility

The manufacturer performs thorough quality tests to ensure that SONOpanX® acoustic panels comply with established criteria and standards. Before installing SONOpanX® acoustic panels, ensure that the installation site and conditions meet those described in this guide. The manufacturer will not be held liable for improper installation and/or for a lack of judgment before or during installation. The manufacturer will not be liable for any labour or installation costs.

Site conditions and SONOpan X® conditioning

SONOpanX® acoustic panels are manufactured from natural recycled wood fibres. Wood is a living material. SONOpanX® acoustic panels require same site or conditioning that all other wooden floors coverings.

This information is available on SONOpanX®'s page at: www.sonopan.com

Before installing SONOpanX® and finished flooring, all openings should be installed and closed: doors, windows, garage doors, etc. The SONOpanX® acoustic panels should be stored on job site (always inside and laid flat) for approximately 48 hours in order to reach the recommended ambient conditions. (Relative humidity degree should be within 25% and 55%.)

Preparation (concrete and wooden subfloor)

The underlayment for SONOpanX® should be thoroughly cleaned, free from any loose debris, perfectly flat and level. The unevenness degree accepted is 5 mm (3/16") on 3m (10') length. Uneven spots should be either grinded down or filled with appropriate levelling compound. When installing SONOpanX® on concrete subfloor, ensure that the concrete is perfectly dried.

When installing SONOpanX® on a wooden subfloor, this subfloor should be a minimum thickness of 5/8" (16 mm) with tongue and groove side edges type. Ensure the wooden subfloor (plywood or other wood panel) is firmly fixed to the floor structure to avoid panel's movement and creaking. The SONOpanX® acoustic panels must be stored on job site, inside and, laid flat, for approximately 48 hours in order to reach the above recommended ambient conditions.

Soundproofing



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SONOpanX[®] panels should be staggered 24 inches (610 mm) from each other to prevent end-joint alignment effect. Ensure that joints between SONOpanX[®] acoustic panels are as tight as possible. Leave a free open space of 3/8" (10 mm) to 5/8" (16 mm) around the floor surface and around any opening made in SONOpanX[®] acoustic panels.

Insert a 1/2" (13 mm) or 5/8" (16 mm) neoprene closer in all perimeter cavities and any obstacles and fill the cavity with SONOpanX[®] acoustic caulking (or equivalent) up to the finished floor's level.

Adhesives

When installing SONOpanX[®] panels to the subfloor, a urethane-based adhesive should be used. Adhere SONOpanX[®] substrate using MSL S-63 free-solvent adhesive. A 3/16" (5 mm) V-Notch trowel should be used (as per drawing). When applying adhesive, hold trowel at a 45-degree angle minimum to maximize spreading. Adhesive should not be applied if room temperature is below 70°F (20°C). Let dry for at least 24 hours before installing the floor covering.

WARNING: adhesives containing solvents are not compatible with SONOpanX[®] acoustic panels.

Mechanical fasteners

WARNING: no mechanical fasteners or nails should penetrate SONOpanX[®] panels otherwise impact noises will be transmitted.

Floating floors soundproofing

SONOpanX[®] panels can be installed without adhesive. The underlayment surface must be perfectly flat and level and all periphery edges sealed.

Laminated (engineered) wood floors soundproofing

When installing laminated flooring, the underlayment surface should be perfectly flat, levelled, and dried. The SONOpanX[®] membrane should be glued directly to the concrete or wooden subfloor. Adhesives and preparation should be as described in previous sections. Then the laminated flooring should be glued to the SONOpanX[®] acoustic panels. Always proceed in accordance with the flooring and adhesive manufacturer's recommendations.

Hardwood floors soundproofing

When installing a conventional hardwood flooring (mechanically fastened), the underlayment surface should be perfectly flat, levelled, and dried. The SONOpanX[®] acoustic panels should be glued to the concrete or wooden subfloor using adhesives as outlined above. An additional subfloor glued to SONOpanX[®] is required underneath the hardwood floor to anchor the hardwood. The wooden subfloor should be tongue and groove type and should be in accordance with the flooring and adhesive manufacturer's recommendations.

Soundproofing



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Ceramic tiles floors soundproofing

When installing ceramic tiles flooring, on concrete or wooden subfloor, the underlayment surface should be perfectly flat, levelled, and dried. Uneven spots should be either grinded down or filled with appropriate levelling compound. The floor on which ceramic tiles are to be installed must not have a deflection exceeding 1/360 of the span.

When installing SONOpanX[®] acoustic panels on concrete surface, concrete must be completely dry. The SONOpanX[®] acoustic panels should be glued to the concrete or wooden subfloor using adhesives as outlined above.

The supporting wooden subfloor under the ceramic tiles floor should be tongue and groove type with a thickness of 5/8" (16 mm) minimum. This supporting subfloor should be glued over the SONOpanX[®] acoustic panels and the ceramic tiles should be glued to this supporting subfloor, in accordance with the manufacturer's recommendations and Construction Code Requirements.

N.B.

Different trowel could be required when gluing floor; please refer to the glue or floor manufacturer's recommendations.

These instructions correspond to residential and "light" commercial applications. For larger surfaces or any other applications, we recommend the use of two layers of plywood. These plywood panels should be glued and have the joints staggered. For any other details, communicate with the manufacturer's representative.