SAPboard™

SOUND ABSORBING PANEL BOARD

Acoustic subfloor engineered to replace plywood subfloors and eliminate the need for cementitious underlayments

APPLICATION

SAPboard subfloor is an acoustic subfloor engineered and designed to eliminate the need for both plywood subfloors and cementitious underlayments. Fabricated in our state-of-the-art facility, SAPboard has unparalleled bending strength and stiffness making deflection almost nonexistent. With its ability to resist moisture, SAPboard provides builder with a robust subfloor that will retain its structural stability while exposed during the construction process.

The SAPboard engineered tongue and grove joint allows for ease of installation and consistent spacing of panels.

Primarily designed and manufactured for the multifamily and hospitality industries, SAPboard can be used anywhere that sound transmission between floors needs to be managed and controlled.

SAPboard subfloor panels are manufactured in 4′ by 8′ panels and are 1 3⁄16″ thick. SAPboard has been tested to PS2 sheeting span ratings and can achieve superior diaphragm capacity spaced on 24″ centers.

FRAMING SUBSTRATE

It is important to check the framing substrate before installing SAPboard. Verify that all trusses and joists are properly and accurately spaced and that the trusses are at the correct elevation. Ensure that the SAPboard installation guide is reviewed before commencing with installation of SAPboard. The tongue and grove edges of the board are self spacing, ensure joints are fully engaged before fastening in place. Butt ends of panels must be spaced with no more than an 1⁄8″ gap and must be aligned in the center of the support.

AVAILABLE SIZES AND RATINGS

Sound Absorbing Panel boards are available in nominal 4′ by 8′ sheets, all panels are Exposure 1 rated. Custom sizes can be manufactured upon request. Panels are designed to be installed on Open Web Trusses, I Joists and Dimensional Lumber and installed on 24″ centers.

Made from premium, high-density oriented strand board with MDI resin technology, SAPboard weighs 3.9 pounds per square (125 pounds per board).

SAPBOARD - BENDING STIFFNESS

	STRENGTH AXIS			WEAK AXIS		
Test Group	**Max Load (lbf)**	**EI (lbf-in 2/ft)**	**Sb I/c (lbs-in 2/ft)**	**Max Load (lbf)**	**EI (lbf-in 2/ft)**	**Sb I/c (lbs-in 2/ft)**
SAPboard	757	1,092,000	12,240	475	613,000	7,660
OSB	290	364,000	4,730	135	111,000	2,130
Plywood	435	423,000	6,980	260	184,000	4,130

SOUND ABSORPTION

SAPboard is the only acoustic subfloor that enables the elimination of cementitious underlayments in multifamily, student housing and hospitality buildings.

SAPboard can achieve sound transmission ratings as high as 59 IIC and 62 STC. For information on specific assembly ratings refer to **sapproductsllc.com** or call our technical department at **(440) 241-3401**.

INDEPENDENT TESTING

Independent third party structural testing of SAPboard performed by Progress Engineering, an ICC company. Test reports are available upon request.

Acoustic testing performed by Riverbank Acoustical Lab and Intertek Lab, all sound data available upon request.

UL specifications include UL L501, L510, L511, L528, L538, L570, L577, M510 and M539. Additional assembly specifications are available if required.

5461 Dunham Road, Maple Heights, OH 44137 | (440) 241-3401

SAPboard *It's not a subfloor. It's a solution.*

www.sapproductsllc.com

SUBSTRATE

Before beginning installation, verify framing is properly spaced and aligned to support panel edges. Install SAPboard in accordance with SAPboard installation instructions, Progress Engineering report and requirements of authorities having jurisdiction.

During install ensuring temporary expansion every 80 feet, locate joint under party wall.

FINISHED FLOOR APPLICATIONS

Field applied sealers or water repellents are not required and are not recommended for use with SAPboard.

Typical residential carpet and pad maybe be installed directly over the SAPboard subfloor.

VCT and sheet vinyl should have a minimum 1/4" plywood underlayment, per the flooring manufacturers recommendation.

For hardwood floors, the use of a felt or rubber underlayment is recommended, per the manufacturers recommendations.

Ceramic tile requires underlayment per ANSI A108. Install underlayment in accordance with TCNA installation methods.

LVT above 4mm thick can be laid directly over the SAPboard, if using a glued-down product use glue recommended and warranted by the flooring manufacturer.

STORAGE AND HANDLING

SAPboard is delivered to site in waterproof bags and bundle banded to protect the product. Do not leave material exposed prior to install.

When storing on site, support bundles off of the ground to ensure the prevention of water damage.

GENERAL SUSTAINABILITY

Low-emitting materials, no added urea formaldehydes or VOC contents.

Sustainable Forestry Initiative Certified Wood, harvested, transported and distributed utilizing sustainable practices.

Renewable Forestry Resources, composed of primarily young growth bio-based resources.

Made in the USA in Maple Heights, Ohio.

POTENTIAL LEED CREDIT CONTRIBUTION

Credit IEQ 4.4 Low-Emitting Composite Wood and Agrifiber SAPboard contains no added urea formaldehyde

Credit MR 5.1 or 5.2 Regional Material: Materials harvested, processed and manufactured within 500 miles of project site.

Credit MR2.2 Environmentally Preferable Products - Local Production.

Credit EQc9 Acoustic Performance, Minimum Composite Sound Transmission class rating for adjacent space.

Credit MRc4 Recycled Content, Membrane in panel made from recycled rubber approximately 15% by value.

INSTALLATION

SAPboard is the strongest subfloor on the market. It is installed in the same manner as any other subfloor. It can be installed over open web trusses, TJI's and dimensional lumber. It can be screwed with out the need for subfloor adhesive or any other special measures.

Fasteners are installed 6" on the perimeter and 12" in the field. All fasteners along the tongue and grove edges should be installed on the marked lines. 2½" x 0.120 ring shank nails are the recommended fasteners.

NOTES AND LIMITATIONS

When a building's uninterrupted flooring length or width exceeds 80', designers should incorporate expansion joints to accommodate the cumulative effect of incremental panel expansion. This is an industry recommendation and is not unique to SAPboard.

- Do not use water sealers.
- Do not paint with water based paints.
- Do not use in permanent exterior applications.
- Do not use salt-based ice melts.

TECHNICAL SERVICE

Detailed information including specifications, product literature, MSDS sheets, etc. are available through RSP Industries at **sapproductsllc.com** or by calling **(440) 241-3401.**

SAPBOARD BENEFITS

Ease of Installation: SAPboard is a one-step process to achieve and exceed building code noise transmission levels. It is tested to as high as 59 IIC and 62 STC.

Reduced Risk of Mold: SAPboard avoids introduction of moisture in the form of cementitious underlayments. This reduces the risk of mold developing during construction.

Cost Savings: Developers and Builders benefit from using SAPboard by eliminating cementitious underlayments, allowing for savings in general conditions and construction interest, and by generating additional revenue through schedule savings.

Structural Strength: SAPboard allows trusses to be spaced on 24" centers. It also outperforms all other subfloors, providing developers and owners with a more robust building.

Sound Absorption: SAPboard is the ONLY subfloor on the market that allows you to install the subfloor and sound barrier in one step. Improved performance ensures your tenants comfort.

Improved Durability: Unlike cementitious underlayments, SAPboard is extremely durable and will withstand heavy wheel chair traffic without cracking or pulverizing.

Environmentally Friendly: SAPboard is environmentally friendly. Manufactured from yellow pine, SAPboard is a carbon sink unlike cementitious underlayments, which have a large carbon footprint.

SAPboard

5461 Dunham Road,
Maple Heights, OH 44137

*Call **Aaron Mathews at (440) 241-3401** today for more information on your **SAPboard** solution.*