



## Installation Instruction

# Plyboo Quiet Acoustical Underlayment

# Table of Contents

## BASE PREPARATION

- I. General Information.....3
- II. Job Site Conditions.....3
- III. Subfloor Requirements & Preparation .....3
- IV. Hazards.....4
- V. Material Storage and Handling.....4

## INSTALLATION

- I. Perimeter Isolation Strips .....5
- II. Installation Methods .....5
- III. Floor Finish .....6
- IV. Baseboard Installation .....7
- VII. Recommended Materials .....7

## BASE PREPARATION

### I. GENERAL INFORMATION

The Plyboo Quiet Acoustical underlayment has been rigorously tested to be as good as any sound isolation products

Currently produced, laboratory results available on request. Made from 100% resilient recycled rubber, from remanufactured car and truck tires, Plyboo Quiet Acoustical underlayment qualifies many projects for up to 5 LEED points and makes an important statement that a builder, developer, or architect cares about our environment. Used in schools, hospitals, hotels and condominiums Plyboo Quiet Acoustical underlayment has very low VOC's and can be installed under most types of grouted, glued and floating floors\*\*\* (no adhesive required for floating floors)

### II. JOB SITE CONDITIONS

Like most flooring products, do not consider installation until there are suitable temperature and humidity controls operable and working, and a suitably "clean" means of ingress and egress.

### III. SUBFLOOR REQUIREMENTS & PREPARATION

NOTE: Use the following subfloor requirements and preparation guidelines only when no such recommendations exist for the floor finishing product.

1. All subfloors/substrates must be inspected prior to installation.
2. Install Plyboo Quiet Acoustical underlayment over concrete approved self-leveling materials and wood.
3. Wood subfloors (when installed with use of grouted floor coverings like tile) must be prepared according to ANSI L/360 standards, as required by the floor covering manufacturer.

NOTE: Particleboard, often called "chipboard," masonite and lauan are not suitable underlayments.

4. Concrete floors must be fully cured and permanently dry. Subfloor shall be dry, clean, smooth, level and structurally sound. It should be free of dust, solvent, paint, wax, oil, grease, asphalt, sealers, curing and hardening compounds, alkaline salts, old adhesive residue and other extraneous materials, according to ASTM F710.
5. Subfloor should be smooth to prevent irregularities, roughness or other defects from telegraphing through the material. The surface should be flat to the equivalent of 3/16" (3.9mm) in 10', as described in ACI 117R, or as recommended by the flooring manufacturer.
6. Mechanically remove all traces of old adhesives, paint or other debris by scraping, sanding or scarifying the substrate. DO NOT use solvents.
7. Grind all high spots until level and fill low spots with an approved patching/leveling compound.
8. All saw cuts (control joints), cracks, indentations and other nonmoving joints in the concrete must be filled with an approved patching/leveling compound. Allow patching material to dry thoroughly.
9. Any concrete subfloor can be a source of moisture-related flooring failures. It is the installer's responsibility to test the concrete or other cement-like material for moisture.

NOTE: The calcium chloride test (ASTM F1869) is not recommended for use with gypsum products.

#### IV. HAZARDS

##### SILICA WARNING

Concrete, floor patching compounds, toppings and leveling compounds can contain free crystalline silica. Cutting, sawing, grinding or drilling can produce respirable crystalline silica (particles 1-10 micrometers). Respirable silica is classified by OSHA as an IA carcinogen and is known to cause silicosis and other respiratory diseases. Avoid actions that cause dust to become airborne. Use local or general ventilation, or protective equipment to reduce exposure below applicable exposure limits.

##### LEAD WARNING

Certain paints may contain lead. Exposure to excessive amounts of lead dust presents a health hazard. Refer to applicable federal, state and local laws and the publication, Lead Based Paint. Guidelines for Hazard Identification and Abatement in Public and Indian Housing, available from the United States Department of Housing and Urban Development.

##### ASBESTOS WARNING

Resilient flooring, backing, Dining felt, paint or asphalted “cutback” adhesives could contain asbestos fibers. Avoid actions that cause dust to become airborne. DO NOT sand, dry sweep, dry scrape, drill, saw, bead blast, mechanically chip or pulverize. Regulations may require that the material be tested to determine asbestos content. Consult the documents titled, Recommended Work Practices for Removal of Existing Resilient Floor Coverings, available from the Resilient Floor Covering Institute.

#### V. MATERIAL STORAGE AND HANDLING

1. Deliver the material to the job site in its original, unopened packaging with all labels intact and stored appropriately to prevent damage.
2. Inspect all material for visual defects before beginning the installation. Smith & Fong Co. will not honor any labor claim on material installed with visually apparent defects.
4. The material and any adhesive must be acclimated at room temperature for a minimum of 24 hours before starting the installation.
5. Roll material is stretched slightly when it is rolled at the factory. At the job site, the installer should allow all cuts to relax before gluing down. Shaking the material once it is unrolled can help it

## INSTALLATION

### I. PERIMETER ISOLATION STRIPS

NOTE: It is essential to install isolation strips, if any, before placing and trimming

1. Open windows daily a minimum of 2" to allow for the evaporation of moisture.

NOTE: A building without all of these conditions present will significantly increase the drying time of the gypsum product.

2. Before applying the sealer or installing the finished floor goods, be sure that the gypsum underlayment is sufficiently dry by testing it using the plastic sheet method per ASTM D4263 or a method recommended by the gypsum manufacturer.

3. Install the finished floor in accordance with the flooring manufacturer's directions. After installing the finished floor, trim the excess Perimeter Isolation Strip around the entire perimeter of the finished floor.

### II. INSTALLATION METHODS

NOTE: Plyboo Quiet Acoustical underlayment sound isolation is a flat, resilient underlayment that is used directly under Plyboo flooring yielding exceptional results over both concrete and wood joist constructions. Plyboo Quiet Acoustical underlayment is available in 48" wide rolls, and in 3mm, 5mm, 6mm, 9mm, and 1 mm thicknesses, other custom thicknesses available.

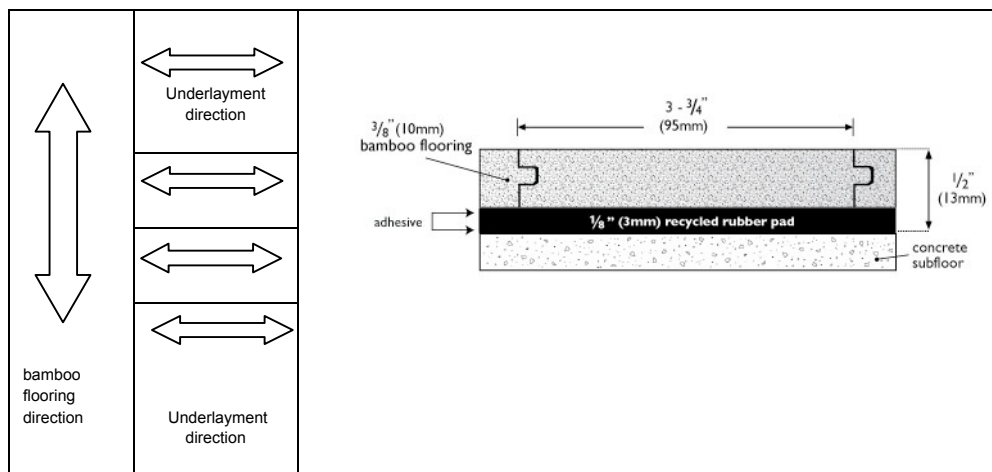
### TYPICAL INSTALLATION

1. Attach wall isolation strips, if any

2. Assume the walls you are butting up against are not square. Using a chalk line, create a starting point for an edge of the material to follow.

3. If you have not already done so, remove the shrink-wrap from the roll of Plyboo Quiet Acoustical underlayment and unroll it onto the floor. Shaking the material once it is unrolled can help it to relax.

4. Place the Plyboo Quiet Acoustical underlayment material so that it is perpendicular to the subsequent installation direction of the topping material (see below)



5. Trim the ends of each section as necessary in order to fit the surface area to be covered. You may trim section ends to exact dimensions required (e.g. joints with walls, etc.).

6. Align the lengthwise edge of the material exactly with that of the neighboring section. Edges must contact but not overlap.

NOTE: When using grouted or fully adhered flooring materials, the Plyboo Quiet Acoustical underlayment shall be fully adhered to the substrate with a suitable adhesive, preferably Bostik Ultra-Set SingleStep or Bostik Best Urethane Adhesive. No substitutions are permitted.

7. Fold the first drop lengthwise (half the width of the roll). Spread adhesive using proper notch trowel.

NOTE: Temperature and humidity affect the open time of adhesive. The installer should monitor on-site conditions and adjust open time accordingly. Carefully lay the material into the wet adhesive, dropping it may trap air which may affect adhesion. Carefully lay the material into the wet adhesive.

8. Fold over second half of first sheet and first half of second sheet.

9. Spread the adhesive. At seam area, spread adhesive at a 90 degree angle to the seam to prevent excessive adhesive oozing up to the surface of the material.

10. Continue the process for each consecutive drop. Always work at a pace so that you are always folding material back into wet adhesive.

11. Never leave adhesive ridges or puddles, as they may telegraph through the material.

12. Use a 30 to 50 lb. roller to roll over the floor within 45 minutes to ensure proper transfer of adhesive. Overlap each pass of the roller by 50% of the previous pass to ensure that the floor is properly rolled.

13. Slice air pockets and wrinkles and smooth with a roller or the flat side of a trowel. Align subsequent sheets and butt join the seams tightly but do not overlap them.

#### USING TAPE

#### (FOR FLOATING FLOOR COVERING INSTALLATIONS)

1. Dry lay the rolls onto the subfloor following the directions on above.

2. Use duct tape or a high-quality carpet tape to secure the butt joints and seams.

3. A high quality 3" wide duct tape can be used to prevent the Plyboo Quiet Acoustical underlayment from moving on the substrate.

NOTE: Gluing down of the Plyboo Quiet Acoustical underlayment is not required for floating Floors.

#### III. FLOOR FINISH

#### GENERAL

DO NOT mechanically fasten any material through Plyboo Quiet Acoustical underlayment, Any mechanical connection, such as nails, screws, staples, etc., will transmit noise through to the building structure, compromising the performance of Quiet Sound.

## INSTALLATION

1. Install self-locking floors, over Plyboo Quiet Acoustical underlayment following the manufacturer's recommendations.
2. Glue standard wood flooring directly to Plyboo Quiet Acoustical underlayment, (if not floating), using the flooring manufacturer's recommended adhesive.
3. Heat welding of seams may allow the migration of some chemicals into the flooring. As a preventative measure, install a barrier between the Plyboo Quiet Acoustical underlayment and the flooring. A layer of craft paper will work well for this application.
4. Install grouted flooring materials in a thin/thick mortar applied directly on the Plyboo Quiet Acoustical underlayment .
5. Trim any excess material flush with the floor

## V. RECOMMENDED MATERIALS

NOTE: All materials shall be delivered to the job site in the original containers with the manufacturer's identification on each package. Unauthorized modification to any product is not permitted. The following materials are listed only as a convenience to the buyer.

### URETHANE/ACRYLIC ADHESIVES

1. Bostik Ultra-Set SingleStep
2. Bostik Best Urethane Adhesive

\*\*\*NOTE: See page 6, no adhesive required for floating floors, just tape seams