



INSTALLATION MANUAL
Rubber underlayment

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I. BASE PREPARATION

A. GENERAL INFORMATION

The Soundmiami line of products for impact sound insulation are engineered to provide better performance than any other sound control product available, and has been rigorously tested to achieve proven results. Made from 100% resilient recycled rubber and backed test over independent laboratories and filed test, Soundmiami has been selected and used in multi-family housing, high-rises, single family homes or commercial buildings in the USA It can be installed under types of grouted, glues and floating floors including ceramic tile, stone, marble, brick, pavers, hardwood, engineered wood, laminate, parquet vinyl and carpet.

B. JOB SITE CONDITIONS

Areas to receive Soundmiami should be weather tight and maintained at minimum, a constant room temperature of 50°F (10°C) for 24 hours before, during and after installation.

C. SUBFLOOR REQUIREMENTS AND PREPARATION

a. GENERAL

NOTE: Please follow the subfloor requirements and preparation recommendations determined by the flooring manufacturer. Use the following 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 soundmiami 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 lavan, 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.



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5. Subfloor should be smooth to prevent irregularities, roughness or other defects from telegraphing through the material or other defects coming from cable or pipes that may pass 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, paints or other debris by scraping, sanding or scarifying the substrate. **DO NOT USE SOLVENTS.**
7. Grid 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 non-moving 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. With Gypsum PRODUCTS, recommend the in situ probes test as per ASTM F2170.

D. HAZARDS

a. SILICA WARNING

Concrete, floor patching compounds, toppings and leveling compounds can contain free crystalline silica. Cutting, sawing, grinding or drilling with respirable crystalline silica (Particles 1-10 micrometers). Respirable silica is classified by OSHA as an IA carcinogen and is known to cause silicosis 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.

b. 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 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.

c. ASBESTOS WARNING

Resilient flooring, backing, lining felt, paint or asphaltic "cutback" adhesives could contain asbestos fibers. Avoid actions that cause dust to become airborne. **DO NOT** sand, dry sweep, dry scrape, drill, saw, beadblast, mechanically chip or pulverize. Regulations may require that

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material be tested to determine asbestos content. Consult the documents titled, *recommended work Practice for Removal of Existing Resilient Floor Coverings*, available from Resilient Covering Institute.

E. MATERIALS STORAGE AND HANDLING

GENERAL

1. Deliver the material to the job site in its original, unopened packaging with labels appropriately to prevent damage.
2. Inspect all material for visual defects before beginning the installation. Sound Contractor Acoustic will honor no labor claim on material installed with any visually apparent defects.
3. Verify the material delivered is the correct type, thickness and amount. Report any discrepancies immediately.
4. The material and adhesive must be acclimated at room temperature for a minimum of 24 hours before starting the installation.
5. Roll material is screeched 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 to relax more quickly.

II. INSTALLATION

GENERAL

A. PERIMETER ISOLATION STRIPS

NOTE: it is essential to install the Soundmiami perimeter isolation (PMSM02MM) strip before placing and trimming Soundmiami Impact Sound Insulation Material

1. Attach the soundmiami Perimeter Isolation (PMSM02MM) Strip to the perimeter wall of the entire subfloor, as Well as around of any protrusions, in order to isolate or break the vibration transmission path between the floor and the wall (See diagram No 1)
2. Temporarily fasten the Soundmiami Perimeter Isolation (PMSM02MM) Strip in lace with masking tape, duct tape, carpet tape or spot gluing. The Perimeter Isolation Strip will later be trimmed flush with the new top layer of flooring above soundmiami layer

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Soundmiami PMSMO2MM
Perimeter Isolation Strip glued to

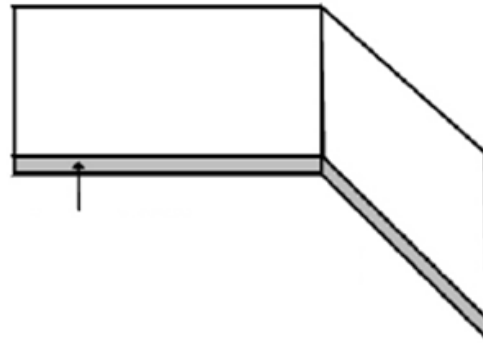


Diagram No 1

B. SOUNDMIAMI UNDERLAYMENT

Soundmiami sound control underlayments are designed to reduce impact noise in the floor ceiling assembly. Soundmiami sound control underlayment, is crush resistant, durable and high acoustic performance under wood, tile and other hard surfaces. The line Soundmiami is also provide a high sound control performance in floating method of installation, for floating of hardwood floors and floating of laminated floors. Available in 48" and 54 " wide rolls and four standard thicknesses 2 mm, 5 mm, 6 mm, 10 mm and 12 mm.

a. INSTALLING SOUNDMIAMI UNDERLAYMENT

1. Attach the perimeter isolation (PMSM02MM) strip to the wall (see diagram No 1).
2. Assume the walls you are biting up against are not square. Using a chalk line, crate 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 soundmiami and unroll it onto the floor. Shaking the material once it is unrolled can help can help it to relax.
4. Always lay the Soundmiami so that the dimples are down against the subfloor. Some variations of soundmiami so that this membrane surface is on top.
5. Trim the ends of each section as necessary in order to fit the surface area to be covered.
6. Align the lengthwise edge of the material exactly with that of the neighboring section. Edges must contact but not overlap.
7. Dry lay the rolls onto the floor. Use high quality 3" wide duct tape to secure all joints and seams

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b. INSTALLATION OF GYPSUM TOPPING

1. Install gypsum flooring underlayment product to a minimum thickness of 1". Install the gypsum layer according to the recommendations of the gypsum manufacturer. Thickness of the gypsum layer may depend on thickness of the Soundmiami layer.
2. Properly eat and ventilate the building interior before, during and after the installation of the gypsum product, constant room temperature of 50°F (min) and controlled humidity of 50 % (max). Under these conditions, a 1" thick gypsum floor underlayment should be dry in about seven to ten days.
3. Open windows daily a minimum de 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.

4. 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 D 4263 or a method recommended by the gypsum manufacturer.
5. Install the finished floor in accordance with the flooring manufacturer's directions. After installed finished floor, trim the excess Perimeter Isolation Strip around the entire perimeter of the final finished floor (see diagram No 2) You may consult with the floor covering installer to see if they would like the Perimeter Isolation Strip to remain in place.

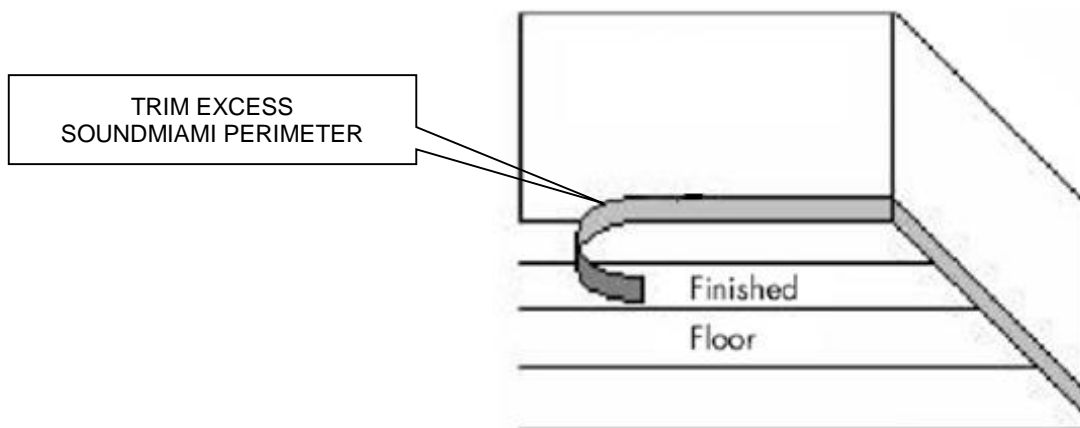


Diagram No 2

C. FLOOR FINISH

1. GENERAL

- a. Follow the flooring manufacturer's directions for installing the flooring. Use their recommended adhesives, procedures and equipment. When installing vinyl or linoleum



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flooring products directly on Soundmiami, a layer of SOUNDMIAMI SMCAC08 adhesive shall be back-troweled into its surface. This process seals the CAC to prevent chemical migration. It also provides a monolithic layer onto which the flooring manufacturer's recommended adhesive can be spread.

- b. Do not mechanically fasten any material through Soundmiami. Any mechanical connection. Such as nails, screw, staples, etc., will transmit noise through to the building structure, compromising the performance of Soundmiami.

2. INSTALLATION

- a. Install self-locking floors, such as woods laminates, over Soundmiami following manufacturer's recommendations.
- b. Glue standard wood flooring directly to Soundmiami the flooring manufacturer's recommended adhesive.
- c. If a flooring manufacturer recommends the installation of a layer of plywood or cement board between the soundmiami and the finished flooring, glue the recommended board using a suitable adhesive.
- d. Heat welding of seams may allow the migration of some chemicals into the flooring. As a preventive measure, install a barrier between the soundmiami and the flooring. A layer of kraft paper will work well for this application.
- e. Install grouted flooring materials in a thin or thick-set mortar bed applied directly on the Soundmiami.
- f. When the flooring installation is complete, trim any excess soundmiami material so that it is flush with the surface of the finished floor.

D. BASEBOARD

- a. After perimeter installation strip has been trimmed to finished floor height install the baseboard.
- b. Fix the baseboard to the wall above the soundmiami. The baseboard must not touch the finished floor (See diagram No 3)

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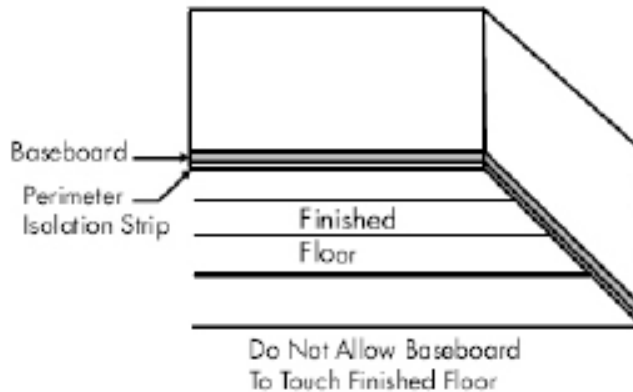


Diagrama No 3

- c. Seal the entire perimeter with a permanently flexible acoustical caulk.

E. RECOMMENDED MATERIALS

NOTE: All materials shall be delivered to the job site the original containers with the manufacturer's identification on each package. Unauthorized modification to any product is not permitted. The following materials are listed because of their extensive testing and field experience with soundmiami products. If you would like us to evaluate any materials as alternatives, please contact us.

a. URETHANE ADHESIVES

1. SMCAC08 adhesive
2. ECO420-ECO495
3. Henry #971

b. THIN-SET MATERIAL

1. ARDEX FB9L
2. ARDEX X701
3. ARDEX X7G Plus
4. ARDEX 516



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III. WARRANTY INFORMATION

The recommendations for applications and installation are based on our extensive experience and current technological practice. Our liability and responsibility in the event of damages are limited to the extent defined in our General Terms and conditions of Business and are not in any way increased by the above recommendations or by advice given by our sales representatives or applications engineering staff.

CAC GROUPS INVESTMENT is a corporation duly organized and validly existing under the laws of the commonwealth of Florida. CAC GROUPS INVESTMENT offers a lifetime warranty on the soundmiami brand of impact sound Insulation products against defects in material and workmanship and that soundmiami shall meet all published specifications and shall perform effectively. CAC GROUPS INVESTMENT warrants that during the warranty period soundmiami products shall not harden, become brittle, chip, crack, tear or exhibit any signs of excessive deterioration except for normal wear and tear. All other warranties including implied warranties for a particular purpose are expressly excluded. The sole remedy against the seller will be the replacement or repair of the defective goods, or seller's option, credit may be issued not exceeding the selling price of the defective good.