

SECTION 09 6013
ACOUSTIC UNDERLAYMENT

PART 1 GENERAL

1.1 SUMMARY

- A. Section includes:
 - 1. Rubber sound control underlayment to be placed under flooring.
 - 2. Adhesive.
- B. Related Documents and Sections: Examine Contract Documents for requirements that directly affect or are affected by Work of this Section. A list of those Documents and Sections include, but is not limited to the following:
 - 1. Drawings and general provisions of the Contract, including General and Supplementary Conditions, and Division 01 General Requirements Specification Sections.
 - 2. Section 09 3000 - TILING.
 - 3. Section 09 3033 - STONE TILING.

1.2 SUBMITTALS

- A. Product Data: Submit product data, including manufacturer's guide specifications product sheet, for specified products.
- B. Shop Drawings: Manufacturer's specifications, catalog cuts, and other items needed to demonstrate compliance with the specified requirements. Also the manufacturer's recommended installation procedures, which, when approved by the acoustic engineer, will become the basis for accepting or rejecting actual installation procedures used on the work.
- C. Samples: Submit selection and verification samples for finishes, colors, and textures.
- D. Quality Assurance Submittals: Submit the following:
 - 1. Certificates: If required, certification of performance characteristics specified in this document shall be provided by the manufacturer.
 - 2. Manufacturer's Instructions: Manufacturer's installation instructions.
 - 3. Sound Control Underlayment material manufacturer shall provide a Certificate of Compliance certifying that the material is compliant with all of the material specifications as outlined herein, and the Certificate of Compliance shall be stamped by a Professional Engineer.
- E. Closeout Submittals: Submit the following:
 - 1. Warranty: Warranty documents specified herein.

1.3 QUALITY ASSURANCE

- A. Qualifications:
 - 1. Installer Qualifications: Installer experienced in performing work of this section who has specialized in installation of work similar to that required for this project.
 - a. Certificate: When requested, submit certificate indicating qualification.
 - 2. Manufacturers' Qualifications: Manufacturer capable of approving application method.

- B. Mock-Ups: Install at project site a job mock-up using acceptable products and manufacturer-approved installation methods. Comply with workmanship standard. Comply with Division 1 Quality Control (Mock-Up Requirements) Section.
 - 1. Mock-Up Size: As determined by acoustical consultant.
 - 2. Maintenance: Maintain mock-up during construction for workmanship comparison; remove and legally dispose of mock-up when no longer required.
 - 3. Incorporation: Mock-up may be incorporated into final construction upon Owner's approval.
 - C. Pre-installation Meetings: Conduct pre-installation meeting to verify project requirements, substrate conditions and manufacturer's instructions.
 - D. Pre-installation Testing: Conduct pre-installation testing as follows: [specify substrate testing; consult with flooring manufacturer].
- 1.4 DELIVERY, STORAGE, AND HANDLING
- A. General: Comply with Division 1 Product Requirements Sections.
 - B. Ordering: Comply with manufacturer's ordering instructions and lead time requirements to avoid construction delays.
 - C. Delivery: Deliver materials in manufacturer's original, unopened, and undamaged containers with identification labels intact.
 - D. Storage and Protection: Store materials at temperature and humidity conditions recommended by manufacturer and protect from exposure to harmful weather conditions.
- 1.5 PROJECT CONDITIONS
- A. Temperature Requirements: Maintain air temperature in spaces where products will be installed for time period before, during, and after installation as recommended by manufacturer.
 - B. Field Measurements: Verify actual measurements/openings by field measurements before fabrication; show recorded measurements on shop drawings. Coordinate field measurements and fabrication schedule with construction progress to avoid construction delays.

PART 2 PRODUCTS

2.1 PRODUCTS:

- A. Acceptable Manufacturers: Provide products as listed below by Pliteq, Inc, or equivalent by Maxxon, Ardex, or equivalent acceptable to the Architect.
 - 1. Pliteq GenieMat RST-05 Re-bonded Recycled Rubber Sound Control Underlayment
 - 2. Pliteq GenieMat Re-bonded Recycled Rubber Perimeter Isolation Strip
- B. Components:
 - 1. Isolation Mat:
 - a. 5 mm thick, non-laminated, single-ply re-bonded rubber underlayment
 - b. 94% recycled rubber content. Flat mat, resilient underlayment used directly under floor finishes for impact sound insulation.
 - c. Sheet Weight: minimum weight of 4.88 kg/m²
 - d. Reduction of Impact Sound Pressure Level (ΔL_w) (BN ES ISO 140-8): 19 dB.
 - 2. Perimeter Isolation Strip:

- a. 5 mm thick, non-laminated, single-ply re-bonded rubber perimeter isolation strip.
- b. 94% recycled rubber content, flat, resilient strip that used to build a tub around the floor so that no hard surface (floor covering) touches any hard vertical surface protrusion or wall.
- c. Sheet Weight: minimum weight of 4.88 kg/m²
- 3. Adhesive:
 - a. Single component, low VOC polyurethane, flooring adhesive as recommended by the sound control underlayment manufacturer.

PART 3 EXECUTION

3.1 EXAMINATION

A. Manufacturers' Instructions

- 1. Comply with manufacturer's product data, including product technical bulletins, product catalog installation instructions, and product carton instructions for installation.

B. Examination

- 1. Site Verification of Conditions: Verify substrate conditions, which have been previously installed under other sections, are acceptable for product installation in accordance with manufacturer's instructions.

C. Preparation

- 1. Clean surfaces thoroughly prior to installation.
- 2. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.

3.2 INSTALLATION

A. Fully bond sound control underlayment to sub floor.

B. Roll out sound control underlayment installing it flush to the walls. Roll up the roll halfway and apply adhesive on exposed area using a 3mm x 3mm x 5mm (1/8" x 1/8" x 3/16") V- notched trowel, roll back over adhesive flat trowel any air pockets, continue with other side the same way.

C. Continue rolling out and gluing down sound control underlayment in the same manner until the entire area is covered. Make sure the edges are tightly butted together, both side by side & end by end. Use a 25 -5 kg roller to fully bond the sound control underlayment to sub floor.

D. Install perimeter isolation strips around all walls and obstacles.

3.3 CLEANING

A. Remove temporary coverings and protection of adjacent work areas. Repair or replace damaged installed products. Clean installed products in accordance with manufacturer's instructions prior to Owner's acceptance. Remove construction debris from project site and legally dispose of debris.

3.4 PROTECTION

A. Protection: Protect installed product and finish surfaces from damage during construction.

END OF SECTION

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