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This MANU-SPEC® utilizes the Construction Specifications Institute (CSI) *Project Resource Manual* (PRM) including *MasterFormat™*, *SectionFormat™* and *PageFormat™*. A MANU-SPEC is a manufacturer-specific proprietary product specification using the proprietary method of specifying applicable to project specifications and master guide specifications. Optional text is indicated by brackets []; delete optional text in final copy of specification. Specifier Notes typically precede specification text; delete notes in final copy of specification. Trade/brand names with appropriate symbols typically are used in Specifier Notes; symbols are not used in specification text. Metric conversion, where used, is soft metric conversion.

This MANU-SPEC specifies a sound isolation membrane. These products are manufactured by Acoustiblok, Inc. Revise MANU-SPEC section number and title below to suit project requirements, specification practices and section content. Refer to CSI *MasterFormat™* for other section numbers and titles.

SECTION 09 80 00
ACOUSTIC TREATMENT

PART 1 GENERAL

1.01 SUMMARY

A. Section Includes:

1. Sound isolation material for wall, ceiling and floor installations.

Specifier Note: Article below may be omitted when specifying manufacturer's proprietary products and recommended installation. Retain Reference Article when specifying products and installation by an industry reference standard. If retained, list standard(s) referenced in this section. Indicate issuing authority name, acronym, standard designation and title. Establish policy for indicating edition date of standard referenced. Conditions of the Contract or Section 01 42 19 - Reference Standards may establish the edition date of standards. This article does not require compliance with standard, but is merely a listing of references used. Article below should list only those industry standards referenced in this section. Retain only those reference standards to be used within the text of this Section. Add and delete as required for specific project.

1.02 REFERENCES

A. ASTM International (ASTM)

1. ASTM C423 Standard Test Method for Sound Absorption and Sound Absorption Coefficients by the Reverberation Room Method.
2. ASTM C627 Standard Test Method for Evaluating Ceramic Floor Tile Installation Systems Using the Robinson-Type Floor Tester
3. ASTM D3273 Standard Test Method for Resistance to Growth of Mold on the Surface of Interior Coatings in an Environmental Chamber.
4. ASTM D3274 Standard Test Method for Evaluating Degree of Surface Disfigurement of Paint Films by Microbial (Fungal or Algal) Growth or Soil and Dirt Accumulation.
5. ASTM E90 Standard Test Method for Laboratory Measurement of Airborne Sound Transmission Loss of Building Partitions and Elements.
6. ASTM E413 Classification for Rating Sound Insulation.
7. ASTM E492 Standard Test Method for Laboratory Measurement of Impact Sound Transmission Through Floor-Ceiling Assemblies Using the Tapping Machine.
8. ASTM E2179 Standard Test Method for Laboratory Measurement of the Effectiveness of Floor Coverings in Reducing

Impact Sound Transmission Through Concrete Floors.

- B. Underwriters Laboratories Inc.: (UL)
 - 1. Standard 263 Standard for Fire Tests of Building Construction and Materials.

Specifier Note: Article below includes submittal of relevant data to be furnished by Contractor, either before, during or after construction. Coordinate this article with Architect's and Contractor's duties and responsibilities in Conditions of the Contract and Section [01 33 00 - Submittals Procedures].

1.03 SUBMITTALS

- A. General: Submit listed submittals in accordance with Conditions of the Contract and Section [01 33 00 - Submittal Procedures] [_____].
- B. Product Data: Submit product data, including manufacturer's SPEC-DATA® sheet, for specified products.
- C. Samples: Submit 8 inch x 10 inch (203 x 254 mm) samples of each product specified.
- D. Quality Control Submittals:
 - 1. Manufacturer's Instructions: Manufacturer's installation instructions.

Specifier Note: Article below should include prerequisites, standards, limitations and criteria which establish an overall level of quality for products and workmanship for this section. Coordinate article below with Division 01 Quality Assurance Section.

1.04 QUALITY ASSURANCE

- A. Regulatory Requirements: In accordance with Section [01 41 00 - Regulatory Requirements] [_____].
- B. Installation: In accordance with manufacturer requirements.

1.05 DELIVERY, STORAGE & HANDLING

- A. General: Comply with Section [01 61 00 - Common Product Requirements] [_____].
- B. Delivery: Deliver materials in manufacturer's original, unopened, undamaged containers with identification labels intact.
- C. Storage and Protection: Store materials protected from exposure to harmful environmental conditions and at temperature and humidity conditions recommended by the manufacturer.

PART 2 PRODUCTS

Specifier Note: Retain article below for proprietary method specification. Add product attributes, performance characteristics, material standards, and descriptions as applicable. Use of such phrases as "or equal," "or approved equal" or similar phrases may cause ambiguity in specifications. Such phrases require verification (procedural, legal and regulatory) and assignment of responsibility for determining "or equal" products.

2.01 ACOUSTIC TREATMENT

Specifier Note: Paragraph below is an addition to CSI *SectionFormat* and a supplement to MANU-SPEC. Retain or delete paragraph below per project requirements and specifier's practice.

- A. Manufacturer: Acoustiblok, Inc.
 - 1. Contact: 6900 Interbay Boulevard, Tampa, FL 33616; Phone: (813) 980-1400; Fax: (813) 849-6347; E-mail: info@acoustiblok.com; website: www.acoustiblok.com.

2.02 MATERIALS

Specifier Note: Retain products below to conform to project requirements. If more than one product is retained, create designators and coordinate with drawings.

- A. 16 oz. Sound Isolation Material:
 - 1. Thickness: 0.11" ± 0.03" (2.79 mm ± 0.76 mm)
 - 2. Weight: 1 psf (4.89 kg/m²)
 - 3. Acoustical Properties:

- a. Sound transmission coefficient (STC) of not less than 26 when tested in accordance with ASTM E90 and E413, with a minimum sound attenuation of 19 dBA at 100 Hz.
 - b. Delta Impact Insulation Class (IIC) Rating of 12 when tested in accordance with ASTM E90 and E413.
 - c. Impact Insulation Class (IIC) Rating of 67, dependent upon assembly construction, and when tested in accordance with ASTM E492 and E989.
4. Fire Resistance: UL Fire Resistance Classification.
 5. Fungal Growth: Rating of 10, no fungal or algal growth, no visible disfigurement when tested in accordance with ASTM D3273 and D3274.
 6. Tensile Strength: Not less than 510 psi (3516 kPa) when tested in accordance with ASTM D5034.
 7. Performance Level: Residential when tested as an underlayment system with Acoustiwool-TFO.11 in accordance with ASTM C627.
 8. Color: Black.
- B. 32 oz. Sound Isolation Material:
1. Thickness: 0.22" ± 0.03" (5.58 mm ± 0.76 mm.)
 2. Weight: 2 psf (9.78 kg/m²).
 3. Acoustical Properties:
 - a. Sound transmission coefficient (STC) of not less than 32 when tested in accordance with ASTM E90 and E413.
 - b. Delta Impact Insulation Class (IIC) Rating of 14 when tested in accordance with ASTM E2179.
 - c. Impact Insulation Class (IIC) Rating of 51, dependent upon assembly construction, when tested in accordance with ASTM E492 and E989.
 4. Tensile Strength: Not less than 365 psi (2517 kPa) when tested in accordance with ASTM D5034.
 5. Color: Black.

2.03 ACCESSORIES

Specifier Note: Retain accessories below to conform to project requirements.

- A. Seam Tape: Acoustigrip tape.
- B. Caulk: Acoustiblok Acoustical Sound Sealant.
- C. Underlayment Materials:
 1. Acoustipad for carpet floor installations.
 2. Acoustiwool-WF0.125 for wood floor installations.
 3. Acoustiwool-TFO.11 for tile floor installations.
- D. Sealant Pads: Acoustiputty Sound Sealant Pad.
- E. Fasteners: As recommended by manufacturer.

2.04 PRODUCT SUBSTITUTIONS

- A. No substitutions permitted.

PART 3 EXECUTION

Specifier Note: Paragraph below is an addition to CSI *SectionFormat* and a supplement to MANU-SPEC. Retain or delete paragraph below per project requirements and specifier's practice.

3.01 MANUFACTURER'S INSTRUCTIONS

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

3.02 EXAMINATION

- A. Site Verification of Conditions: Verify that substrate conditions, for substrates previously installed under other sections, are

acceptable for product installation in accordance with manufacturer's instructions.

3.03 CLEANUP

- A. Proceed in accordance with Section [01 74 23 - Final Cleaning] [_____].
- B. Upon completion and verification of performance of installation, remove surplus materials, excess materials, rubbish, tools and equipment.

END OF SECTION