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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 sound isolation panels. 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. Outdoor and industrial sound absorption panels.

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 E90 Standard Test Method for Laboratory Measurement of Airborne Sound Transmission Loss of Building Partitions and Elements.
3. ASTM E413 Classification for Rating Sound Insulation.
4. ASTM E795 Standard Practices for Mounting Test Specimens During Sound Absorption Tests.

B. Testing Application Standard (TAS):

1. TAS 202 Uniform Static Air Pressure Test.

C. Underwriters Laboratories, Inc. (UL):

1. UL 723 Tests for Surface Burning Characteristics of Building 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 12 inch × 12 inch (305 × 305 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 that 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] [_____].

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: sales@acoustiblok.com; website: www.acoustiblok.com.

2.02 MATERIALS

Specifier Note: Retain panel(s) below to conform to project requirements. If more than one panel is retained, create designators and coordinate with drawings.

- A. All Weather Sound Panels:
 - 1. Type: [Industrial model] [Hurricane model].
 - 2. Size: [4 feet × 12 feet × 2.42 inches (1.22 × 3.66 m × 61 mm)] [4 feet × 10 feet × 2.42 inches (1.22 × 3.05 m × 61 mm)] [4 feet × 8 feet × 2.42 inches (1.22 × 2.44 m × 61 mm)] [4 feet × 6 feet × 2.42 inches (1.22 × 1.83 m × 61 mm)] [4 feet × 4 feet × 2.42 inches (1.22 × 1.22 m × 61 mm)] [_____].

Specifier Note: Weights will vary slightly according to panel size.

- 3. Weight:
 - a. Standard Model 4 feet × 8 feet × 2.42 inches (1.22 × 2.44 m × 61 mm): 104 lb (47.17kg)
 - b. Other: [_____].
- 4. Fire Performance, UL 723:
 - a. Flamespread: 0.

- b. Smoke Developed: 0.
- 5. Acoustical Properties:
 - a. Noise Reduction, ASTM C423, ASTM E795:
 - 1) Noise reduction coefficient (NRC) not less than 1.0.
 - 2) Sound absorption coefficient not less than 1.12 at 500 hZ.
 - b. Sound Transmission, ASTM E90, ASTM E413:
 - 1) Sound transmission coefficient not less than 29.
 - 2) Sound transmission loss not less than 19dB at 40 hZ.
- 6. Uniform Static Air Pressure, TAS 202: 188 psf (not less than 270 mph).
- 7. Frame Construction: Welded 0.125 inch (3.18mm) corrosion resistant 6063-T5 aluminum with 18 corrosion resistant 6061-T5 aluminum flush 0.375 inch (9.54 mm) diameter mounting eyelets.
- 8. Facing: Corrosion resistant 5052-H32 aluminum.
 - a. Front: 0.040" (1.02 mm) perforated 5/32" (3.96mm) staggered 3/32" (2.39 mm) round holes.
 - b. Back: 0.032" (0.89 mm) solid sheet.
- 9. Finish: Mill finish.

2.03 ACCESSORIES

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

- A. Fasteners: As recommended by manufacturer.
- B. Mounting:
 - 1. 3" (76 mm) I-beam, aluminum, 25' (7.6 m), Acoustiblok # 3ALUMIBEAM.
 - 2. 3 1/4" x 2 3/4" (83 x 70 mm) aluminum tee bar, Acoustiblok # TBARHP.

Specifier Note: Specify filter for projects in high dust environments.

- C. Filter: Stainless steel screen.

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 conditions of 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, rubbish, tools and equipment.

END OF SECTION