

THIS IS NOT A CONSTRUCTION DOCUMENT - Edit with care to suit project requirements. User must determine final content suitability in whole or part for the specific project.

SPI – Specialty Products & Insulation
C/O Dunes Point Capital
411 Theodore Fremd Ave., Rye, NY 10580
E-mail: fabteam@spi-co.com
www.spi-co.com

This MANU-SPEC™ utilizes the Construction Specifications Institute (CSI) *Manual of Practice*, including *MasterFormat*™, *SectionFormat*™ and *PageFormat*™. This 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 various types of acoustical panels. These products are manufactured by Specialty Products & Insulation. Revise the 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 098410

SOUND ABSORPTIVE DIFFUSERS

PART 1 GENERAL

1.01 SUMMARY

Specifier Note: Revise paragraphs below to suit project requirements.

- A. Section Includes: Sound diffusers, barrel and pyramidal

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 Division 1 References Section may establish the edition date of standards. This article does not require compliance with standard. It is a listing of all references used in this section.

1.02 REFERENCES

- A. ASTM International:

1. ASTM C423 Standard Test Method for Sound Absorption and Sound Absorption Coefficients by the Reverberation Room Method.
2. ASTM E795 Standard Practices for Mounting Test Specimens During Sound Absorption Tests.
3. ASTM E84 Standard Test Method for Surface Burning Characteristics of Building Materials.

Specifier Note: Article below should be restricted to statements describing design or performance requirements and functional (not dimensional) tolerances of a complete system. Limit descriptions to composite and operational properties to extent necessary to link multiple components of a system and to interface with other systems.

1.03 SYSTEM DESCRIPTION

- A. Performance Requirements:

1. Surface Burning Characteristics (ASTM E84) Class A fire Rating:

- a. Class A: Flame Spread: 0 – 25, Smoke Developed: 0 – 450.
- b. Diffusers not listing composite panel fire test results utilize Class A fire rated components as documented by component manufacturer.

Specifier Note: Article below includes submittal of relevant data to be furnished by Contractor before, during or after construction. Coordinate this article with Architect's and Contractor's duties and responsibilities in Conditions of the Contract and Division 1 Submittal Procedures Section.

1.04 SUBMITTALS

- A. General: Submit listed submittals in accordance with Conditions of the Contract and Division 1 Submittal Procedures Section.
- B. Product Data: Submit manufacturer's product data and installation instructions.
 - 1. Recommended procedures for normal cleaning and removal of stains including precaution in use of cleaning materials that may be detrimental to surfaces.
- C. Shop Drawings: Submit shop drawings showing layout, profiles and panel components, including anchoring, accessories, finish colors and textures.
- D. Samples: Submit selection and verification samples 11 1/2 inch x 11 1/2 inch (292 mm x 292 mm) of representative panel with factory detailed edge and representative mounting hardware.
- E. Test Reports: Upon request, Submit copies of test reports showing compliance with specified performance requirements from approved test facility.
 - 1. Standard Systems: Submit copies of previous test reports substantiating performance of system in lieu of retesting.

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 1 Quality Assurance Section.

1.05 QUALITY ASSURANCE

Specifier Note: Paragraph below should list obligations for compliance with specific code requirements particular to this section. General statements to comply with a particular code are typically addressed in Conditions of the Contract and Division 1 Regulatory Requirements Section. Repetitive statements should be avoided.

- A. Regulatory Requirements and Approvals: [Specify applicable requirements of regulatory agencies].
 - 1. [Code agency name].
 - a. [Report or approval number].
- B. Pre-installation Meetings: Specify requirements for meeting.

Specifier Note: Article below should include special and unique requirements. Coordinate article below with Division 1 Product Requirements Section.

1.06 DELIVERY, STORAGE & HANDLING

- A. General: Comply with Division 1 Product Requirements Section.
- B. Delivery: Deliver materials in original, unopened, undamaged containers with identification labels intact.
- C. Storage and Handling: Protect materials and components from exposure to harmful environmental conditions including moisture, dust, etc.
 - 1. Prevent soiling and physical damage.

Specifier Note: In article below, state physical or environmental limitations or criteria for installation such as weather, temperature, humidity, ventilation or illumination required for proper installation or application.

1.07 PROJECT/SITE CONDITIONS

- A. Environmental Requirements: Do not deliver or install panels until wet work such as concrete, plaster, paint and adhesives is complete, cured and dry.

1.08 MAINTENANCE

- A. Extra Materials: Provide [a recommended percentage of] [Specify percentage] additional materials for use by owner in building maintenance and repair.

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 “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 SOUND DIFFUSERS, BARREL AND PYRAMIDAL

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. Basis-of design: SPI Absorption Plus® Diffusers: Barrel and Pyramidal

1. Contact: SPI C/O Dunes Point Capital, 411 Theodore Fremd Ave., Rye, NY 10580 www.spi-co.com, fabteam@spi-co.com.

Specifier Note: Edit Paragraph below to suit project requirements. If substitutions are permitted, edit text below. Add text to refer to Division 1 Project Requirements (Product Substitutions Procedures) Section.

- B. Substitutions: No substitutions permitted.

Specifier Note: Paragraphs below list proprietary diffusers offered by Winroc-SPI. Select diffuser type(s) appropriate to project. Consult manufacturer regarding product options. Select product characteristics required; delete characteristics not required. Refer to manufacturer’s technical product information.

2.02 MANUFACTURED UNITS

- A. Absorption Plus® Barrel Diffuser

1. Construction: 0.125 inch thick Thermo-formed fire resistant plastic molded one piece Barrel shape.
2. Sizes: 7 inch height, [2’ x 2’] [2’ x 4’] [3’ x 3’] [4’ x 2’] [4’ x 3’] [4’ x 4’]
3. Edge Profile: [Flanged for lay-in ceiling grid application with radius corners] [no flange smooth return for wall and hard ceiling mount]
4. Finish: white light textured
5. Fabric Facing: [100% polyester fabric, FR 701 Style 2100 by Guilford of Maine] [Factory approved customer selected fabric].
 - a. Color: [As selected from panel manufacturer’s stocked range of colors] [As selected from fabric manufacturer’s full range of colors].
6. Mounting Type Ceiling: Flanged to fit standard ceiling grid.
7. Mounting Type Ceiling: Straight edge with L angles.
8. Mounting Type Wall: Straight edge with L angles, hook and loop fasteners.
7. Sound Absorption (ASTM C423), Type D5 mounting (ASTM E795): Noise Reduction Coefficient (NRC) of 0.10
8. Panel components meet Class A fire requirement.

- B. Absorption Plus® Pyramidal Diffuser

1. Construction: 0.125 inch thick Thermo-formed fire resistant plastic molded one piece Barrel shape.

2. Sizes: [2' x 2' x 8" height] [2' x 4' x 8" height] [4' x 4' x 12.5" height]
3. Edge Profile: [Flanged for lay-in ceiling grid application with radius corners] [no flange smooth return for wall and hard ceiling mount]
4. Finish: white light textured
5. Fabric Facing: [100% polyester fabric, FR 701 Style 2100 by Guilford of Maine] [Factory approved customer selected fabric].
 - a. Color: [As selected from panel manufacturer's stocked range of colors] [As selected from fabric manufacturer's full range of colors].
6. Mounting Type Ceiling: Flanged to fit standard ceiling grid.
7. Mounting Type Ceiling: Straight edge with L angles.
8. Mounting Type Wall: Straight edge with L angles, hook and loop fasteners.
7. Sound Absorption (ASTM C423), Type D5 mounting (ASTM E795): Noise Reduction Coefficient (NRC) of 0.10
8. Panel components meet Class A fire requirement.

PART 3 EXECUTION

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

3.01 MANUFACTURER'S INSTRUCTIONS

Compliance: Comply with manufacturer's product data, including product installation instruction.

3.02 EXAMINATION

- A. Site Verification of Conditions: Verify wet work such as concrete, plastering and paint is complete, cured and dry and that substrate conditions are acceptable for product installation in accordance with manufacturer's instructions.
 1. Do not install panels until unsatisfactory conditions are corrected.

3.03 CLEANING

- A. Follow manufacturer's instructions for cleaning panels soiled during installation. Replace panels that cannot be restored to as new condition.
- B. Keep site free from accumulation of waste and debris.

END OF SECTION