

eNoise Control Acoustical Wall Panel Specifications

1.01 SUMMARY

Specifier Note: Revise paragraphs below to suit project requirements. Specification Includes: Custom fabricated acoustical wall 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 Division 1 References Section 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.

1.02 REFERENCES

ASTM International:

ASTM C423 Standard Test Method for Sound Absorption and Sound Absorption Coefficients by the Reverberation Room Method.

ASTM E84 Standard Test Method for Surface Burning Characteristics of Building Materials.

ASTM E795 Standard Practices for Mounting Test Specimens During Sound Absorption Tests.

Specifier Note: Article below should be restricted to statements describing design or performance requirements and functional (not dimensional) tolerances of a complete system. Omit 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

Performance Requirements:

Surface Burning Characteristics (ASTM E84):

Flamespread: 25, maximum.

Smoke Developed: 450, maximum.

Fire ratings for all fabric covered panels is based on testing of the panel wrapped with the standard in stock fabric, Guilford of Maine, Model FR 701.

This rating applies to all acoustical wall treatment unless specifically excluded in the product specification section 2.02.

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

- General: Submit listed submittals in accordance with Conditions of the Contract and Division 1 Submittal Procedures Section.
- Product Data: Submit product data sheet, for specified products.
- Shop Drawings: Submit shop drawings showing layout, edge profiles and panel components, including anchorage, accessories, finish colors and textures.
- Samples: Submit selection and verification samples of finishes, colors and textures.



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- Test Reports: Certified test reports showing compliance with specified performance requirements.

Standard Systems: Submit certified 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.

- Regulatory Requirements and Approvals: [Specify applicable requirements of regulatory agencies].

[Code agency name].

[Report or approval number].

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

1.06 DELIVERY, STORAGE & HANDLING

- General: Comply with Division 1 Product Requirements Section.
- Delivery: Deliver materials in manufacturer's original, unopened, undamaged containers with identification labels intact.
- Storage and Protection: Store materials protected from exposure to harmful environmental conditions and at temperature and humidity conditions recommended by the manufacturer.

1.07 PROJECT CONDITIONS

- Environmental Requirements: Do not install panels until wet work, such as concrete and plastering, is complete; the building is enclosed; and the temperature and relative humidity are stabilized at 60 - 80 degrees F (16 - 27 degrees C) and 45%, respectively.

1.08 PRODUCTS

Specifier Note: Retain article 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.

1.09 ACOUSTICAL WALL PANELS

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

- Manufacturer: eNoise Control, 297 North 9th Street Noblesville, IN 46060
Telephone: 317.774.1900 Fax: 317.774.1911
E-mail: info@enoisecontrol.com Web site: www.enoisecontrol.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.

- Substitutions: No substitutions permitted.

www.eNoiseControl.com

Specifier Note: Paragraphs below list proprietary acoustical wall panels offered by Kinetics Noise Control. Select wall panel type(s) appropriate to project. Panels are custom fabricated. Consult manufacturer regarding product options. Select product characteristics required; delete characteristics not required. Refer to manufacturer's technical product information.

1.10 MANUFACTURED UNITS

- Acoustic Wall Panels:

Thickness: [1/2 inch (12.7 mm)] [1 inch (25.4 mm)] [1 1/2 inches (38 mm)] [2 inches (51 mm)] [3 inches (76 mm)] [4 inches (102 mm)].

Size: As indicated on the drawings up to a maximum 48 inch (1219 mm) x 120 inch (3048 mm) panel.

Core: [1/2 inch (12.7 mm)] [1 inch (25.4 mm)] [1 1/2 inch (38 mm)] [2 inch (51 mm)] [3 inch (76 mm)] [4 inch (102 mm)] thick fiberglass, 5 - 7 pcf (80 - 112 kg/m³) density.

Edge Detail: [Square] [Round] [Mitered] [Beveled] [Pencil] hardened with non-resin, Class A hardening solution.

Facing: [100% polyester fabric, FR 701 Style 2100 by Guilford of Maine] [Factory approved customer selected fabric].

Color: [As selected from panel manufacturer's stocked range of colors] [As selected from fabric manufacturer's full range of colors].

Sound Absorption (ASTM C423): Noise Reduction Coefficient as follows:

1/2 inch (12.7 mm) Panel: 0.60, minimum.

1 inch (25.4 mm) Panel: 0.80, minimum.

1 1/2 inch (38 mm) Panel: 0.95, minimum.

2 inch (51 mm) Panel: 1.00, minimum.

Mounting Accessories: [HS Impaling clips] [Z-clips] [Edgemount clips] [Velcro] [Magnetic tape].

1.11 FABRICATION

Specifier Note: Retain or delete paragraphs below per project requirements.

Specifier Note: Heat shrink process described below creates a more impact resistant panel. Dents in the fiberglass core due to impact are invisible behind the stretched fabric face.

- General: Treat fabric wrapped panels using heat shrink process to develop fully taut facing.
- Hardside and High Impact Hardside Panels: Wrap panel edges and return facing fabric 1 - 2 inches (25.4 - 51 mm) on back of panel. Secure fabric with adhesive applied to edges and back of panel only.

1.12 EXECUTION

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

1.13 MANUFACTURER'S INSTRUCTIONS

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

1.14 EXAMINATION

- Site Verification of Conditions: Verify that substrate conditions, which have been



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previously installed under other sections, are acceptable for product installation in accordance with manufacturer's instructions.

Verify that stud spacing is 16 inches (406 mm) oc, maximum, for panels installed over open studs.

Do not install panels until unsatisfactory conditions are corrected.

1.15 CLEANING

- Follow manufacturer's instructions for cleaning panels soiled during installation. Replace panels that cannot be cleaned to as new condition.

Keep site free from accumulation of waste and debris.