

SECTION 09 84 13 SOUND DESIGNS ACOUSTIC ARCHITECTURAL SPECIFICATION



PART I - GENERAL

I.1 SUMMARY

- A. Section Includes: Acoustical wall panels and installation components, complete.

I.2 REFERENCES

- A. American Society for Test Methods (ASTM):
 - 1. E 84 Test Method for Surface Burning Characteristics of Building Materials
 - 2. C 423 Sound Absorption and Sound Absorption Coefficients by the Reverberation Room Method
 - 3. E795 Standard Practices for Mounting Test Specimens During Sound Absorption Tests
- B. Scientific Certification Systems (SCS):
 - 1. Environmental Certification Services, Recycled Content Standard

I.3 SUBMITTALS

- A. Submittals: Submit listed submittals in accordance with Conditions of the Contract and Division 01 Submittal Procedures Section
- B. Product Data: Submit manufacturer's technical data and installation instructions for each type of acoustical wall panel required.
- C. Samples: Submit 12 inch X 12 inch samples of specified acoustical wall panel featuring specified surface material, edge and corner detail and method of attachment.
- D. Certifications: Submit manufacturer's written product certification that all furnished wall panels meet or exceed the specification requirements. Include certified copies of tests specified when required.
- E. Shop Drawings: Submit elevation drawings showing wall panel layout, methods of attachment and installation details.

I.4 QUALITY ASSURANCE

- A. Single-Source Responsibility: Provide acoustical panel units and installation components by a single manufacturer whose published product literature clearly indicates compliance of acoustical wall panels with specified requirements.
- B. Applicator: Installation by skilled applicators with no less than three years of documented experience installing acoustical wall panels of the types and extent specified for the project.
- C. Fire Performance Characteristics:
 - 1. Surface Burning Characteristics: All panel components have a Class I/A fire rating when tested in accordance with ASTM E84.
- D. Mock-ups:
 - 1. Install onsite mock-up equivalent to _____ SF of wall panels in an area designated by the Architect. Replace unacceptable panels.
 - 2. Approved mock-up panels will be used as the standard of performance for the project and will be incorporated into the finished project

I.5 PRODUCT DELIVERY, STORAGE, AND HANDLING

- A. Delivery: Deliver acoustical wall panels to the project site in unbroken and undamaged original factory packaging and clearly labeled with the manufacturer's identification label, quality or grade.
- B. Storage: Store materials in a clean, dry, climate controlled storage area within temperature and humidity ranges recommended by manufacturer. Provide protection from damage and exposure to harmful environmental conditions.
- C. Acclimatization: Before installing acoustical wall panels, allow panels to acclimatize to room temperature and humidity.
- D. Handling: Carefully handle acoustical wall panels to avoid soiling and damage.

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1.6 PROJECT CONDITIONS

A. Environmental Conditions:

1. Do not apply acoustical treatments when surface and ambient temperatures are outside the temperature ranges required by the wall panel manufacturer.
2. Do not install acoustical panels until wet work such as concrete, plastering and painting is done and building is completely enclosed.
3. Provide continuous ventilation and heating facilities to maintain substrate surface and ambient temperatures above 60 degrees F and not more than 85 degrees F unless required otherwise by manufacturer's instructions.
4. Maintain constant recommended temperature and humidity for at least 48 hours prior to, throughout the installation period and continuously after panel installation completion.
5. Field Measurements: Check and verify actual wall surfaces by accurate field measurements before fabrication

1.7 WARRANTY

- A. Submit manufacturer's 1 year written warranty against manufacturing defects from date of substantial completion.

1.8 MAINTENANCE

- A. Replacement Materials: Provide full-size units equal to _____ percent of each type of acoustical wall panel installed for maintenance purposes. Furnish replacement materials from the same production run as installed materials. Protect material with clearly marked packaging indicating product identification and project location.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Acoustical Wall Panels: Sound Designs™, Koroseal Acoustical Treatments, Koroseal Interior Products, LLC, Fairlawn, OH.
Contact local representative: _____ Phone: _____

2.2 ACOUSTICAL WALL PANELS

A. Acoustical Wall Panels:

1. Product: Sound Designs™, Koroseal Acoustical Treatments
2. Surface Material: Provide material fully laminated to the fiberglass core face, edges and returned no less than 1-1/2" to the back of the panel to provide fully finished edges and tailored corners.
3. Provide panel surface materials as described below:

Textile Surface Finish: _____

Pattern _____ Color: _____

Fabric Content: _____

Fabric Width: _____

Fabric Width: _____

Fabric Backing: _____

OR

Perforated Vinyl Surface Finish: Pattern _____

Color: _____

Acoustically perforated and tested and reported in accordance with ASTM C 423

- a. Total Weight: 21 ounces per linear yard.
- b. Backing Weight: 2.7 ounces per linear yard.
- c. Fabric backing and content: Poly-Cotton Osaburg

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OR

Dye Sublimation Printed Textile: _____

Total Weight: _____

Fabric Width: _____

Fabric content: _____

- a. Digital Image: Owner/Architect to provide files of digital image for production. Provide Raster images (JPEG, TIFF) with a minimum DPI of 75 at actual size or Vector Files (EPS).

OR

Koroseal Digital Graphics Surface Finish: Digital Ground: _____

Acoustically perforated and tested and reported in accordance with ASTM C 423

- a. Total Weight: 21 ounces per linear yard.
- b. Backing Weight: 2.7 ounces per linear yard.
- c. Fabric backing and content: Poly-Cotton Osnaburg.
- d. Digital Image: Owner/Architect to provide files of digital image for production. Provide Raster images (JPEG, TIFF, PSD, PNG) with a minimum DPI of 75 at final/actual size or Vector Files (EPS, AI including all fonts or "convert type to outlines") at actual size or proportion thereof - no smaller than 25% size.

OR

Arbor Series Wood Veneer Wallcoverings: Arbor Series Wood Veneer Wallcoverings:

- a. Species: _____
 - b. Cut and Figure: _____
 - c. Matching: _____
 - d. Sheet Size: _____
 - e. Trim: _____
 - f. Acoustical Perforation: Acoustically perforated and tested and reported in accordance with ASTM C 423
 - g. Core Composition: WhisperTone® Wallboard. 6-7 pound per cubic foot fiberglass insulation containing a minimum 40% post-consumer recycled glass as a percent of glass weight as certified by Scientific Certification Systems.
 4. Core surface: Plain, fiberglass mat face or tackable 1/8" I6 PCF fiberglass board
 5. Panel Thickness: **Select:** [1 inch] [1-1/2 inch], [2 inch] or [custom thickness]
 6. NRC rating: Minimum _____ when tested in accordance with ASTM C 423, using **Select:** [Type A] or [Type F5] Mounting.
 7. Panel Dimensions: Size and shape as indicated on Drawings
 8. Edge Profile: **Select:** [Square] [Half Bevel] [Quarter Bevel] [Radius] [Mitered] [Tegular] edge hardened with water-based resin hardener.
 9. Surface Burning Characteristics: All panel components have a Class I/A fire rating when tested in accordance with ASTM E 84.
 10. Mounting Method: **Select:** [Permanent] [Moveable]
- B. Acoustical Wall Panel Accessories: **Select:**
1. Panel Anchors: Install Acoustical Wall Panels with RotoFast [Snap-on] [Standard] stabilized, polypropylene plastic snap-on panel anchors.
 2. Adhesive: Manufacturer's recommended construction adhesive applied to back of wall panels.
 3. Mechanical Clips: Two-part z-clips with one part mechanically fastened to the panel in factory applied resin hardened attachment area and the other part fastened to the wall.

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PART 3 - EXECUTION

3.1 EXAMINATION

- A. Site Conditions: Do not proceed with installation until space is conditioned to meet manufacturer's recommendations and all wet work is complete.

3.2 PREPARATION

- A. Measure each wall area and establish layout of acoustical treatments.
- B. Assure equal border widths at opposite edges of each wall.
- C. Coordinate panel layout with mechanical and electrical fixtures.

3.3 INSTALLATION

- A. Install wall panels by attaching the panels to an existing wall per the manufacturer's written instructions, as shown on Drawings.
- B. Attach all panels to the wall using RotoFast snap-on panel anchors
- C. All field fabricated edge details will be finished in accordance with manufacturer's written installation instructions.

3.4 CLEAN-UP COMPLETION

- A. Clean exposed surfaces of acoustic wall panels that have become soiled during handling and installation according to manufacturer's recommended cleaning instructions.
- B. Replace damaged panels.
- C. Upon completion of the work, remove surplus materials, rubbish and debris resulting from the wallcovering installation. Leave areas in neat clean and orderly condition.