

**SECTION 09 84 33**  
**SOUND-ABSORBING WALL UNITS**

**PART 1 - GENERAL****1.1 DESCRIPTION**

This section specifies the requirements for fabric covered acoustical wall panels.

**1.2 RELATED WORK**

Color and location for hanging: Section 09 06 00, SCHEDULE FOR FINISHES.

**1.3 APPLICABLE PUBLICATIONS**

- A. The publications listed below form a part of this specification to the extent referenced. The publications are referenced in text by basic designation only.
- B. American Association of Textile Chemists and Colorists (AATCC):  
TM 16 -04.....Test Method: Colorfastness to Light
- C. American Society for Testing and Materials (ASTM):  
C 423-07.....Sound Absorption and Sound Absorption  
Coefficients by the Reverberation Room Method
- D 1117-01.....Nonwoven Fabrics
- D 5034-95 (R2001).....Breaking Strength and Elongation of Textile  
Fabrics (Grab Test)
- E 84-07.....Surface Burning Characteristics of Building  
Materials

**1.4 SUBMITTALS**

- A. Submit in accordance with Section 01 33 23, SHOP DRAWINGS, PRODUCT DATA, AND SAMPLES.
- B. Shop Drawings: Submit shop drawings showing how panels are to be laid out on the walls, details of trim members and width of panels. Width of panels and location of vertical seams are critical.
- C. Samples: Fabric Covering in quadruplicate, as specified in Section 09 06 00, SCHEDULE FOR FINISHES, size 200 mm (1/4 yard), full width of mill run for each color specified.
- D. Manufacturer's Literature and Data: Complete instructions for installation of wall panels.
- E. Certificate: Flame spread smoke density factors.

**1.5 QUALITY ASSURANCE**

- A. Fire Performance Characteristics: Identify acoustical wall components with appropriate markings of applicable testing and inspecting organization.

1. Surface Burning Characteristics: As follows, tested per ASTM E 84,
  - a. Flame Spread: 25 or less
  - b. Smoke Developed: 200 or less
2. Room/Corner Wall Test: Fabric-covered material shall meet the acceptance criteria of the NFPA 265 (UBC 8-2) Corner Test.

#### **1.6 DELIVERY, STORAGE, AND HANDLING**

- A. Deliver acoustical wall panels to project site in original, unopened packages and store them in a fully enclosed space where they will be protected against damage from moisture, direct sunlight, surface contamination, and other causes.
- B. Before installing acoustical wall panels, permit them to reach room temperature and stabilized moisture content.
- C. Handle acoustical wall panels carefully to avoid chipping edges or damaged units in any way.

#### **1.7 PROJECT CONDITIONS**

- A. Space Enclosure:
  1. Fiberglass Panels: All wet work must be complete and dry prior to installation. Installation shall be carried out where the temperature is between 40 degrees F and 120 degrees F. These temperature conditions must be maintained throughout the life of the warranty.

#### **1.8 WARRANTY**

- A. Acoustical Wall Panel: Submit a written warranty executed by the manufacturer, agreeing to repair or replace acoustical panels that fail within the warranty period. Failures include, but are not limited to:
  1. Acoustical Wall Panels: Manufacturer's defects
- B. Warranty Period:
  1. Acoustical wall panels: One (1) year from date of substantial completion.
- C. Recycled Content:
  1. Woven Fabrics - 100% post-consumer
  2. Fiberglass 52% post consumer

### **PART 2 - PRODUCTS**

#### **2.2 ACOUSTICAL WALL PANELS**

- A. Acoustical Wall Panels: Type AWP-1:
  1. Surface Texture: (fabric)
  2. Composition: (fiberglass)
  3. Color: As selected by architect from manufacturer's standard color offering.
  4. Thickness: Fiberglass (1 inch).

5. Width: As indicated on drawings
6. Panel Heights: As indicated on drawings
7. Edge Profile: Mitered.
8. Noise Reduction Coefficient (NRC): D Mounting (0.85).
9. Flame Spread: ASTM E84; composite rating 25 or less flame spread/200 or less smoke developed.
10. Room/Corner Wall Test: NFPA 265 (UBC 8-2): Pass.
11. Dimensional Stability: Standard - space must be enclosed with HVAC systems operating at all times.
12. Acceptable Product: See SECTION 09 06 00 SCHEDULE FOR FINISHES.

**B. Acoustical Wall Panel Accessories:**

1. Internal spline ("H" Spline):
2. Mounting Style: "D-Mount"
3. Fabric-covered High Impact Corner including receiver and spline.

**PART 3 - EXECUTION**

**3.1 WALL PREPARATION**

- A. Examine fabric, substrates and conditions with installer present for compliance with requirements, installation tolerances and other conditions affecting performance of acoustical wall panels.
- B. Wall shall be smooth, clean, oil free, contain no protrusions, and prepared in accordance with manufacturers printed instructions.

**3.2 INSTALLATION**

- A. Install acoustical wall panels in locations indicated on Drawings.
- B. Comply with acoustical wall panel manufacturer's written instructions for installation of panels using type of concealed mounting accessories indicated or recommended by manufacturer. Anchor panels securely to supporting substrate.
- C. Back-Mounting Devices: Concealed on the backside of panel, recommended to support weight of the panel. Metal Z-Clips, two-part panel clips with one part of each clip mechanically attached to back of panel and the other part to wall substrate, designed to allow for panel removal.

**3.3 CLEANING**

- A. Clip loose threads; remove pills and extraneous materials.

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