

ACOUSTICAL WALL PANELS (AWP)

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Acoustical wall panels.

1.2 RELATED SECTIONS

- A. Section 05310 - Steel Decking: Acoustical steel deck.
- B. Section 09111 - Non-Loadbearing Metal Framing: Ceiling suspension systems.
- C. Section 09260 - Gypsum Board Assemblies.
- D. Section 09511 - Suspended Acoustical Ceilings: Conventional grid-supported acoustic ceilings.
- E. Section 09512 - Adhesive Applied Acoustical Ceilings.
- F. Section 09900 - Paints and Coatings.

1.3 REFERENCES

- A. ASTM C 423 - Standard Test Method for Sound Absorption and Sound Absorption Coefficients by the Reverberation Room Method; 2000.
- B. ASTM E 84 - Standard Test Method for Surface Burning Characteristics of Building Materials; 2000a.

1.4 PERFORMANCE REQUIREMENTS

- A. Acoustical Absorption: Perform testing in accordance with ASTM C 423, Type A mounting method unless otherwise specified.
- B. Flame Spread Rating: Provide all components with Class A flame spread rating when tested in accordance with ASTM E 84, unless otherwise specified.

1.5 SUBMITTALS

- A. Submit under provisions of Section 01300.
- B. Product Data: Manufacturer's data sheets on each product to be used, including:
 - 1. Preparation instructions and recommendations.
 - 2. Storage and handling requirements and recommendations.
 - 3. Installation methods.
 - 4. Independent testing agency test reports.

- C. Selection Samples: For each product specified, two complete sets of color samples representing manufacturer's full range of available colors and patterns.
- D. Verification Samples: For each product specified, two samples, minimum size 6 inches (150 mm) square, representing actual product, color, and patterns.

2.6 QUALITY ASSURANCE

- A. Manufacturer Qualifications: Minimum 10 years of experience in producing acoustical products.
- B. Installer Qualifications: Acceptable to the manufacturer of the acoustical products being installed.
- C. Mock-Up: Provide a mock-up for evaluation of installed appearance.
 - 1. Install acoustical products in areas designated by Architect.
 - 2. Do not proceed with remaining work until Architect approves workmanship and appearance.
 - 3. Approved mock-up may remain as part of the work.
- D. Dimensional Tolerances of Finished Units: Plus or minus 1/16 inch for the following:
 - 1. Thickness.
 - 2. Edge straightness.
 - 3. Overall length and width.
 - 4. Squareness from corner to corner.

2.7 DELIVERY, STORAGE, AND HANDLING

- A. Protect acoustical products during shipment, storage, and handling.
- B. Store products in manufacturer's unopened packaging until ready for installation.
 - 1. Store materials flat
 - 2. Do not stand panels on end
 - 3. Protect edges from damage

2.8 PROJECT CONDITIONS

- A. Do not begin installation of acoustical products until building has been enclosed and environmental conditions approximate those that will prevail when building is occupied.
- B. 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 40% to 50%, respectively.

2.9 EXTRA MATERIALS

- A. See Section 01600 – Product Requirements, for additional provisions.

- B. Provide 5 percent, but not less than 1 of each type of acoustical unit actually installed, for Owner's use in maintenance.

PART 2 PRODUCTS

2.1 MANUFACTURERS

- A. Acceptable Manufacturer: All Noise Control Tel: 561-964-9360 Fax: 1-800-363-1593.
Email: info@allnoisecontrol.com Website: www.allnoisecontrol.com
- B. Substitutions: Not permitted.
- C. Requests for substitutions will be considered in accordance with provisions of Section 01600.
- D. Provide all acoustical products specified herein by a single manufacturer.

2.2 ACOUSTICAL WALL PANELS

A. Wrapped Fiberglass Panels: ACOUSTICAL WALL PANELS (AWP); fiberglass core of 6 to 7 pcf (96 to 112 kg/cu m) laminated to heavy, impact resistant scrim, with chemically hardened edges, seamless finish material wrapped and bonded to back side of panels.

1. Thickness: .5 inch (12.4mm); NRC 0.55.
2. Thickness: .75 inch (19 mm); NRC 0.70.
3. Thickness: 1 inch (25.4 mm); NRC 0.85.
4. Thickness: 1.5 inch (38 mm); NRC 0.95.
5. Thickness: 2 inch (51 mm); NRC 1.05.
6. Thickness: 3 inch (76 mm); NRC 1.10.
7. Thickness: 4 inch (101.6 mm); NRC 1.15.
8. Size: As indicated.
9. Finish Material: As scheduled for various locations
10. Color: As scheduled for various locations.
11. Edges: Square.
12. Corners: Square.
13. Mounting: Adhesive.
14. Mounting: Impaling clips.
15. Mounting: Mechanical clips.

3.3 ACCESSORIES

- A. Mounting Adhesive: Water-based, heavy-bodied adhesive as recommended by manufacturer of acoustical panels.
- B. Impaling Clips. Manufacturer's standard 1.5 by 5 inches (38 by 127 mm) mounting clips designed for impaling back side of fiberglass units.
- C. Mechanical Clips. Two-part clips.

PART 3 EXECUTION

3.1 EXAMINATION

- A. Do not begin installation until substrates have been properly prepared.
- B. If substrate preparation is the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding.

3.2 PREPARATION

- A. Clean surfaces thoroughly prior to installation.
- B. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.

3.3 INSTALLATION

- A. Install acoustical units in accordance with manufacturer's instructions.
- B. Adhesive Mounting: Size back of panels at 18 inch (450 mm) on center in both directions with thin coating of adhesive in 4 inch (100 mm) squares. Center adhesive dabs the size of a large egg on each sized area, and press panel firmly against substrate, flattening adhesive. Block panel for not less than 24 hours until adhesive has set.
- C. Impaling Clips: Fasten clips to wall at 48 inches (1220 mm) on center, with points facing upward. Attach panels by pressing downward and toward the wall, so points of clips are embedded firmly in back of panel.

3.4 PROTECTION

- A. Protect installed products until completion of project.
- B. Touch-up, repair or replace damaged products before Substantial Completion.

Address: 2731 Vista Parkway # D-6 WPB, Florida 33411

Phone: 561-964-9360

Email: info@allnoisecontrol.com

