

SECTION 098310 - ACOUSTICAL PANELS

PART 1 - GENERAL

1.1 SUMMARY

- A. This Section includes the following:
 - 1. Acoustical panels.

1.2 SUBMITTALS

- A. Product Data: Submit manufacturer's technical data for each type of acoustical panel required.
- B. Samples: Minimum 3 inch x 3 inch samples of specified acoustical substrate.
- C. Shop Drawings: Submit shop drawings showing how panels are to be laid out on walls and ceilings. Width of panels and location of vertical seams are critical.

1.3 QUALITY ASSURANCE

- A. Single-Source Responsibility: Provide acoustical panel units and installation components by a single manufacturer.
- B. 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.
- C. Coordination of Work: Coordinate acoustical panel work with installers of related work including, but not limited to building insulation, gypsum board, light fixtures, mechanical systems, electrical systems, and sprinklers.

1.4 DELIVERY, STORAGE, AND HANDLING

- A. Deliver acoustical 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 panels, permit them to reach room temperature and stabilized moisture content.
- C. Handle acoustical panels carefully to avoid chipping edges or damaged units in any way.

Poly Max Polyester Acoustical Panels
Acoustical Surfaces, Inc.

1.5 PROJECT CONDITIONS

A. Space Enclosure:

1. 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.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

A. Acoustical Panels:

1. Poly Max Polyester Acoustical Panels by Acoustical Surfaces, Inc. (Basis of Design)
 - a. 123 Columbia Court North, Suite 201, Chaska, MN 55318.
 - b. 952-448-5300, Fax: 952-448-2613.
 - c. Toll Free: 1-800-448-3134.
2. Or equal.

2.2 ACOUSTICAL PANELS

A. Product: Poly Max Polyester Acoustical Panels.

1. Material: 7.5# per cubic foot density panels made from 100% polyester (60% PET-recycled fiber, 40% PET-virgin fiber).
2. Sizes:
 - a. Wall Panel Sizes and Colors:
 - 1) White: 23-3/4" × 47-3/4" or 48" × 96".
 - 2) Dark Beige: 24" × 48".
 - b. Ceiling Panel Sizes: 23-3/4" × 47-3/4".
 - c. Custom sizes and graphics available.
3. Thickness: 1 inch.
4. Weight: 7.5# PCF.
5. Flammability: Class A Fire Rated.
 - a. Flame Spread Index = 15.
 - b. Smoke Developed Index = 250.
6. Acoustical Performance per ASTM C423: 1 inch thick panel.
 - a. Type A mount: .70 NRC.
 - b. Type E400 mount: .90 NRC.
7. Fungal Test per ASTM C1338: Pass.
8. Formaldehyde Free.
9. No Binding Agents.
10. No Chemical Irritants.
11. Non-allergenic.
12. Non-toxic.
13. Tackable Surface.
14. Applications: Theaters & Home Theaters, Gymnasiums & Multipurpose Room, Commercial & Office Buildings, Studios & Production Houses, Restaurants & Night Clubs, Government & Municipal Buildings, Schools & Universities, Industrial & Manufacturing Facilities.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Do not proceed with installation until all wet work such as concrete, terrazzo, plastering and painting has been completed and thoroughly dried out, unless expressly permitted by manufacturer's printed recommendations.

3.2 PREPARATION

- A. Measure each wall area and establish layout of acoustical units to balance border widths at opposite edges of each wall. Coordinate panel layout with mechanical and electrical fixtures.

3.3 INSTALLATION

- A. Install wall panels per the manufacturer's written instructions.

END OF SECTION 098310