

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. 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.

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: Class A, 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.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

A. Acoustical Panels:

1. Microperf Acousticore 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: Microperf Acousticore 519.

1. Maximum Size: 1549 mm x 3683 mm (61" x 145").
2. Thickness: 19 mm (3/4") Available up to 51 mm (2").
3. Weight: 5.86 kg / m² (1.2 lbs / sq.ft.), @ 19 mm thickness.
4. Core: Sintered Resin-reinforced Glass Wool Soundply™.
5. Face: [Wood Veneer] [Vinyl] [High Pressure Laminate] [Field Painted].
6. Perforation:
 - a. Surface Diameter: 0.5mm.
 - b. Passage Diameter: 0.5mm
 - c. Passage Depth: 1.7mm
7. Pattern: Offset.
8. Acoustics:
 - a. NRC Score: .70.
9. Fire Rating: Class A per ASTM-E84.
10. LEED Credits:
 - a. EA 1 Optimized Energy Performance.
 - b. MR 4.1 & 4.2 Recycled Content Credit:
 - 1) Core 57% pre-consumer
 - 2) 0% post-consumer.
 - c. MR 7 Certified Wood (contact sales staff)
 - d. EQ 4.4 Composite Wood: No added urea formaldehyde.
 - e. EQ 7 & 7.1. Thermal Comfort.
 - f. EQ 9 Enhanced Acoustical Performance.

B. Product: Microperf Acousticore 529.

1. Maximum Size: 1549 mm x 3683 mm (61" x 145").
2. Thickness: 25 mm (1") Available up to 51 mm (2").
3. Weight: 6.35 kg / m² (1.3 lbs / sq.ft.), @ 25 mm thickness.
4. Core: Sintered Resin-reinforced Glass Wool Soundply™.
5. Face: [Wood Veneer] [Vinyl] [High Pressure Laminate] [Field Painted].
6. Perforation:
 - a. Surface Diameter: 0.5mm.
 - b. Passage Diameter: 0.5mm
 - c. Passage Depth: 1.7mm
7. Pattern: Offset.
8. Acoustics:

Microperf Acousticore Panels
Acoustical Surfaces, Inc.

- a. NRC Score: .90.
- 9. Fire Rating: Class A per ASTM-E84.
- 10. LEED Credits:
 - a. EA 1 Optimized Energy Performance.
 - b. MR 4.1 & 4.2 Recycled Content Credit:
 - 1) Core 57% pre-consumer
 - 2) 0% post-consumer.
 - c. MR 7 Certified Wood (contact sales staff)
 - d. EQ 4.4 Composite Wood: No added urea formaldehyde.
 - e. EQ 7 & 7.1. Thermal Comfort.
 - f. EQ 9 Enhanced Acoustical Performance.

PART 3 - EXECUTION

3.1 PREPARATION

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

3.2 INSTALLATION

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

3.3 CLEANING

- A. Clean exposed panel surfaces. Comply with manufacturer's written instructions for cleaning, and minor finish damage repairs. Remove and replace panel components that cannot be successfully cleaned and repaired to permanently eliminate evidence of damage, including deformed panels.

END OF SECTION 098310