

## SECTION 09 51 13 - ACOUSTICAL PANEL CEILINGS

### PART 1 - GENERAL

#### 1.1 SYSTEM REQUIREMENTS

- A. Design Requirement:
  - 1. Provide patterns, colors and finishes approved by the University Campus Architect through the University Project Manager.

### PART 2 - PRODUCTS

#### 2.1 MATERIALS

- A. Acoustical Ceiling Panels: Fire-resistance rated where required; ASTM E 1264.
  - 1.
  - 2. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
    - a. Armstrong World Industries, Inc.
    - b. CertainTeed Corp.
    - c. USG Interiors, Inc.
  - 3. Type and Form for typical installations: Type III, Form 1, nodular; sag resistant with anti-microbial treatment.
  - 4. Type and Form for Laboratories: Type IV, mineral base with membrane overlay; Form 2, water felted; with fiberglass-fabric face; sag resistant with anti-microbial treatment.
  - 5. Pattern: E (lightly textured).
  - 6. LR: Approximately 0.90.
  - 7. NRC: Approximately 0.70.
  - 8. CAC: Approximately 35.
  - 9. Thickness: 3/4 inch.
  - 10. Modular Size: 24 by 24 inches or 24 by 48 inches scored to look like 24 by 24 inches.
- B. Metal Suspension Systems: ASTM C 635.
  - 1. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
    - a. Armstrong World Industries, Inc.
    - b. CertainTeed Corp.
    - c. Chicago Metallic Corporation.
    - d. USG Interiors, Inc.
  - 2. Wire hangers, braces, and ties.
  - 3. Wide-Face, 15/16-inch, Capped, Double-Web, Fire-Rated where required, Steel: Intermediate duty.
- C. Metal Edge Moldings and Trim: Roll-formed sheet metal.
- D. Ceiling Panel Plenum Access, Identification Markings:
  - 1. Removable ceiling tiles may provide access to mechanical and electrical components located above the ceiling. Where required, mark ceiling panel with colored map tacks glued in place according to the following:
    - a. Waste Valves and Unions: Blue.
    - b. Waste Cleanouts: Black.
    - c. Ventilation Test Areas and Dampers: Purple.
    - d. Fire Dampers or Fire Detectors: Red.
    - e. Electrical transformers or resistance heaters: Orange.

- f. Natural Gas, Oxygen, and Steam Valves or Unions: Yellow.
- g. Nitrogen, Compress Air, and Vacuum Valves or Unions: Green.
- h. Miscellaneous Mechanical Items: Gray.

PART 3 - EXECUTION

3.1 INSTALLATION

- A. Installation: ASTM C 636.

**END OF SECTION 09 51 13**