SECTION 09 51 00
ACOUSTICAL CEILINGS

PART 1 GENERAL

1.01 QUALITY ASSURANCE

A. Acoustical materials shall meet ASTM E1264 and requirements and guidelines of the Ceilings and Interior Systems Contractors Association (CISCA).

B. Noise Reduction Coefficient (NRC) – minimum .70

C. Ceiling Attenuation Class (CAC) – minimum 35

D. Fire Hazard Classification: UL tested, Listed and labeled as “Class 0-25”. Smoke developed of 50 or less.

E. Obtain all materials on the project from a single source for both suspension system and acoustical tiles. (tile and grid may be separate manufacturers).

PART 2 PRODUCTS

2.01 MANUFACTURERS

A. Provide acoustical ceiling tiles manufactured by one of the following:
   1. Armstrong World Industries
      a). Vinyl faced- Clean Room VL
      b). Fissured pattern
   2. BPB Celotex
      a). Vinyl faced- Vinylshield A
      b). Paper faced- School Board
   3. USG Interiors, Inc.
      a). Vinyl faced-Clean Room ClimaPlus
      b). Paper faced- F-Fisured
   4. Tectum- Acousti-Tough
   5. Other acceptable manufacturers include Certainteed, USG.

B. Provide ceiling suspension systems manufactured by one of the following:
   1. Armstrong World Industries
   2. Certainteed
   3. Chicago Metallic Corp.
   4. USG Interiors, Inc

2.02 MATERIALS

A. IAQ Requirement: Ceiling products shall comply with the requirements of the California Department of Public Health's (CDPH) Standard Method v1.1–2010.

B. Acoustical Ceiling Tiles:
   1. 24” x 48” x 5/8” “(1” where Tectum products used) mineral fiber lay-in boards.
   2. Square edges
   3. Non-directional fissured
C. Ceiling Suspension System:
   1. Hanger wires: Galvanized carbon steel, ASTM A641, with yield stress load of at least 3 times design load, but not less than 12 gauge.
   2. Intermediate Duty main and cross tees and edge moldings
   3. Hold down clips

PART 3 EXECUTION

3.01 INSTALLATION

A. Suspension wires shall be attached to building structure only. No anchorage to metal decking is permitted. Suspension wires shall not be connected to any ductwork support systems or similar construction.

B. Do not install grid and tiles until all overhead work is complete.

C. Suspension wires shall not contact any mechanical ducts, pipes or equipment.

D. Anchorage: Wall angles and trim:
   a). Masonry, concrete, and Lath and Plaster: 1” minimum screw or tapcons for trim attachment.
   b). Gypsum Board: 1” staples minimum for trim attachment.

E. Anchorage for hanger wires:
   1. Concrete: 1” minimum masonry screw or tapcon anchors with eye-bolt configuration.
   2. Steel Structure: wrap hanger wires around structure and secure with minimum 3 full twists of wire.

F. Hanger wires shall be spaced no more than 48” apart on main tee’s.

G. Install a minimum of 2 additional suspension wires and clips on each side of a lay-in light fixture.

3.02 TOLERANCES

A. Level moldings and ceiling suspension to a level tolerance of 0.125” in 12’-0”.

B. Install tiles into grid so that no visible gaps exist.

END OF SECTION 09 51 00