

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
 - 4. Color: White.

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
4. Color: White.

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