

SECTION 09 51 00 - ACOUSTICAL CEILINGS

PART I - GENERAL

1.1 RELATED DRAWINGS

- A. *Drawing 09 51 23-01, Raised Soffit at Existing Window Head*
- B. *Section 01 78 23 – Operation and Maintenance Data*

PART 2 - PRODUCTS

2.1 GRID SYSTEMS

- A. Acceptable Manufacturers: Chicago Metallic, Armstrong Industries.
- B. Main runners and tees shall be heavy duty, 15/16 inch wide components.

2.2 ACOUSTICAL TILE

- A. Acceptable Manufacturers: Celotex Corp., USG Corp., Armstrong Industries.
- B. Tiles shall be 2'-0" by 2'-0" square, with square edges.
- C. Tiles shall be in low to moderate price range and readily available from local suppliers (no "special order" colors, textures, etc.).

2.3 HANGER WIRE

- A. Hanger wire shall be 12 gage galvanized iron wire, specifically manufactured for use with suspended ceilings.

PART 3 - EXECUTION

3.1 INSTALLATION

- A. Fasteners: Anchors for hanger wires in a concrete deck shall be drilled-in, wedge-type expansion anchors only. Powder-actuated fasteners shall not be used except in *concrete on metal decking* or structural steel framing members.
- B. 48 Inch Spacing: All hanger wires shall be spaced no more than 48 inches apart in any direction. Extra wires shall be provided near light fixtures, so that a wire supports each corner of the fixture.
- C. Hanger Wires shall be installed as nearly vertical as possible. If an obstruction (such as ductwork) interferes with spacing, a "trapeze" shall be used. Wires shall not be supported from ductwork, conduit or piping, only the building structure. Both ends of hanger wires shall be tightly wrapped with a minimum of 3 twists.
- D. Layout: The grid system shall be centered in the room when possible, in both directions, so that the border tiles are of equal size. If the acoustical tile has a directional pattern, the tiles shall be installed in the same direction, not alternating.
- E. In existing buildings, it may be necessary to lower the ceiling to an elevation below the top of the existing window head. At such locations, raised soffits shall be provided in front of the windows. See *Drawing 09 51 23-01, Raised Soffit at Existing Window Head*. Soffit area shall be fully enclosed and shall provide sufficient clearance in front of the window for painters and glaziers to maintain the window and surrounding finishes.
- F. Attic Stock: Provide 3% extra attic stock of the same style, color and lot number of ceiling tile for future patching and repairs.

PART 4 - SUBMITTALS

4.1 SCHEDULES

A. *[Note to AE: Ensure schedules are submitted which will enable the replication or reorder of any manufactured product per Section 01 01 78 23 – Operation and Maintenance Data]*

END OF SECTION **09** 51 00

This section of the *U of I Facilities Standards* establishes minimum requirements only.
It should not be used as a complete specification.