

## ARCHITECTURE

### SECTION 09512

#### ACOUSTICAL TILE CEILINGS

##### PART 1 - GENERAL

###### 1.1 SECTION REQUIREMENTS

- A. Submittals: Product Data and material Samples.
- B. Acoustical Tile Ceilings: ASTM E 1264 for Class A materials, tested per ASTM E 84.
- C. Fire-Rating Ceiling Assemblies: ASTM E 119 and listed in UL's "Fire Resistance Directory," in ITS's "Certification Listings," or in the listing of another qualified testing and inspecting agency.
  - 1. Refer to wall types drawing for U.L. Assembly requirements.

##### PART 2 - PRODUCTS

###### 2.1 ACOUSTICAL LAY-IN TILE

- A. Ceilings: As manufactured by Armstrong World Industries or approved equal.
  - 1. ACT-1 – Corridors, Vestibule, Elevator Lobbies:
    - a. 1835 Fine Fissured Beveled Tegular, fire rated, 2' x 2'.
  - 2. ACT-2 – Electric/Trash/Utility Rooms/Open Office and Retail areas (*Lower Level and First Floor*):
    - a. 823 Cortega Square Lay-in, fire rated, 2' x 4'.
  - 3. ACT-3 – Toilet / Locker Rooms:
    - a. 1852 Dune Beveled Tegular, fire rated (*Lower Level and First Floor*), 2' x 2'.
    - b. 1775 Dune Beveled Tegular, non-fire rated, 2' x 2'.

###### 2.2 SUSPENSION SYSTEM

- A. Ceiling Suspension System: Direct hung; ASTM C 635, intermediate-duty structural classification.
  - 1. At 2x2 Tile: Armstrong World Industries, Prelude XL, 9/16" exposed T system.
  - 2. At 2x4 Tile: Armstrong World Industries, Prelude XL, 15/16" exposed T system.
  - 3. Color: white.
- B. Attachment Devices: Size for 5 times the design load indicated in ASTM C 635, Table 1, Direct Hung, unless otherwise indicated.
- C. Wire Hangers, Braces, and Ties: Zinc-coated carbon-steel; **ASTM A 641 (ASTM A 641M)**, Class 1 zinc coating, soft temper.
  - 1. Wire Diameter: Size so its stress at 3 times the hanger design load (ASTM C 635, Table 1, Direct Hung) will be less than the yield stress of wire, but provide not less than **0.106-inch-(2.69-mm-)** diameter wire.
- D. Edge Molding and Trim: Provide manufacturers standard reveal edge shadow molding at perimeter of all ceiling areas.
- E. Hold Down Clips: Provide manufacturers standard that meet requirements of U.L. Assembly.

##### PART 3 - EXECUTION

###### 3.1 INSTALLATION

- A. Ceiling Suspension System Installation: ASTM C 636.

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- B. Ceiling Suspension System Installation Requiring Seismic Restraint:
  - 1. UBC Standard 25-2.
  - 2. CISCA's "Recommendations for Direct-Hung Acoustical Tile and Lay-in Panel Ceilings--Seismic Zones 0-2."
  - 3. ASTM E 580.
- C. Light Fixtures shall be independently attached to the structure.

**END OF SECTION 09512**

*Not for Construction*