

**1.0 GENERAL****.1 Requirements Include**

- .1 Acoustic ceiling panels in exposed tee bar suspensions system.
- .2 Additional guidelines found in Section 09 00 10.

**.2 Performance Standards**

- .1 ASTM E580/E580M-14 Standard Practice for Installation of Ceiling Suspension Systems for Acoustical Tile and Lay-in Panels in Areas Subject to Earthquake Ground Motions.
- .2 AWCC / WCI (Association of Wall and Ceiling Contractors / Wall and Ceiling Institute) Specification Standards Manual.
- .3 Seismic design, components, and installation: in accordance with ASTM-E580 and Authorities Having Jurisdiction.

**.3 Performance and Design Requirements**

- .1 Seismic bracing as required by Code.
- .2 Coordinate with seismic requirements of other sections, Divisions 20 to 25 and 26.
- .3 Acoustic data is to equal or exceed the published performance data for the "preferred" Armstrong components (see below), or as recommended by Project Acoustical Consultant.

**2.0 ADMINISTRATIVE AND SUBMITTAL REQUIREMENTS****.1 Coordination Requirements**

- .1 Early in the design process, review design intent and additional requirements with FCD.

**.2 BCIT Submittals and Notifications**

- .1 Product Data:
  - .1 Specify submittal data indicating compliance with specification requirements including data on recycled content of products.
- .2 Shop Drawings:
  - .1 Specify to include layout of panels (reflected ceiling plan) prior to installation.
  - .2 Specify to include seismic bracing.
  - .3 Shop Drawings shall be sealed by a registered Professional Structural Engineer licensed to practice in the Province of British Columbia, with respect to seismic bracing. Include Schedules B with Shop Drawing submittals.

- .3 Maintenance Materials:
  - .1 5% of each type of ceiling tile. Or,
  - .2 2% of ceiling tile, when the BCIT preferred standard is used.
  - .3 Must be only full tiles – no cut tiles – and packaged and labelled.
- .4 Letters of Assurance.

### **3.0 QUALITY ASSURANCE**

#### **.1 Mock-Ups**

- .1 Mock up of minimum 10 sq. m including mock-up has mechanical, electrical and sprinkler systems incorporated. Test sound transmission between mocked up rooms to ensure sound transmission requirements are met. Refer also to Field Quality Control.
- .2 Installation:
  - .1 Installer: approved by Acoustic Ceiling Assembly manufacturer, and having a minimum three (3) years experience.
- .3 Contract: to include costs for an Engineer to certify the shop drawings, conduct periodic site reviews during construction, and at completion, to submit reports and Letters of Assurances as per the Authority Having Jurisdiction.

### **4.0 PRODUCTS**

#### **.1 Acceptable Products**

- .1 Specify only materials that carry some assurance of a future supply of patterns and colours.
- .2 Preferred standard products that are used and stocked for maintenance at BCIT:
  - .1 Acoustic Tile: Cortega by Armstrong
    - .1 600 x 1220 x 20 mm (24 in. x 48 in. x 5/8 in.).
    - .2 Square Edge profile.
    - .3 Manufacturer's standard white.
  - .2 T-Bar: Prelude XL 15/16" Exposed Tee by Armstrong World Industries.

\*\*\* END OF **ACOUSTICAL CEILINGS** SECTION \*\*\*