

**RELATED DOCUMENTS:**

The general provisions of the Contract, including General and Supplementary Conditions, and General Requirements, and Division 1 specifications that apply to the work specified in this Section.

**PART 1: GENERAL**

**DESCRIPTION OF WORK:**

Provide acoustical ceiling systems, complete as shown and as specified herein, including exposed tee suspension systems and acoustical lay-in boards.

Coordinate work with installation of air conditioning grilles and diffusers specified in Division 15B and with installation of lighting fixtures specified in Division 16.

**INDUSTRY STANDARDS:**

For listing of names of industry standard agencies mentioned by abbreviation in this section refer to Section 01068.

**QUALITY ASSURANCE:**

Manufacturers:

Standard: For purposes of designating type and quality for work in this Section, Drawings and Specifications are based on products by following manufacturers:

Ceiling Suspension Systems shall be by one of following, or equivalent by:

- Eastern Products Corp.
- Chicago Metallic Corp.
- Donn Products, Incorporated

Acoustical Tiles shall be Armstrong or equivalent products by:

- BPB
- Chicago Metallic Corp
- USG

Source: Products for use on this Project shall be of one Manufacturer for each function.

Shop Drawings: Indicate following:

Layout of inserts required for ceiling suspension system.

Reflected ceiling layouts for all areas to receive acoustical ceilings. Details of all connections to work of other trades.

Submit typical layout showing size and spacing of exposed grid and hangers as related to structural frame.

Samples: Submit samples of each acoustical unit, suspension system, and accessories.

Test Reports: Submit (in triplicate) copies of certificate of Flame Spread Class 25 rating under requirements of SS-S-118A, required for all acoustical units on Project.

Manufacturer's Data: Submit (in triplicate) Manufacturer's printed installation instructions for suspension system.

Warranty: Provide 15 year "humidity no-sag" manufacturer's warranty for tiles and grid system, warranted to replace tiles and damaged or defective system components at no cost to owner if tiles sag visibly within the warranty period. Warranty terms equivalent to Armstrong Humiguard Plus 15 year warranty.

#### **PRODUCT HANDLING:**

Delivery: Deliver acoustical ceiling boards to Project site in Manufacturer's original packages, with seals unbroken, with Manufacturer's name and contents legibly marked thereon and with testing laboratory labels where required.

Storage: Store ceiling tiles and boards in enclosed areas, with same temperature and humidity conditions as areas in which material is to be installed.

#### **ENVIRONMENTAL CONDITIONS:**

Building Conditions: Install acoustical materials only when normal temperature and humidity conditions approximate interior conditions that will exist when building is occupied. Building shall not be cold and damp, or hot and dry.

Glazing shall be in place and all exterior openings closed. All concrete, plastering and other wet work shall be complete and dry.

Provide heat and ventilation to maintain proper conditions before, during, and after acoustical work is performed.

#### **PART 2: PRODUCTS**

**TYPES AND SYSTEMS**: All acoustical materials shall be of types indicated by type numbers on Drawings, as follows:

Type 1: 24" x 24" x 5/8" Armstrong fine fissured Humiguard Plus, no. 1728 / Prelude XL Grid

Type 2: 5/8" Moisture Resistant gypsum board

Type 3: Hardie Board soffit panel

#### **HANGERS:**

Wire: No. 12 gauge galvanized steel.

#### **SUSPENSION SYSTEM:**

Components: System shall consist of main support tees, cross tees, splice clips, wall angles, and hold down clips.

Design Loads: Suspension system shall be designed to support respective lay-in units and light fixtures with deflection of suspension members not to exceed 1/360 of span of member.

Exposed Grid System: Armstrong Exposed Grid System (hot dipped galvanized steel), consisting of main tees and cross tees with 15/16" exposed flange. Wall molding shall be cold-rolled galvanized steel, channel shaped, with 1" exposed face of same finish as exposed tee surfaces.

Provide all aluminum grid at AL grid locations indicated.

Provide bullnosed preformed corners for bullnosed wall corners.

Finish: Exposed surfaces of tees and of wall moldings shall be flat white, baked polyester.

### **PART 3: EXECUTION**

#### **INSTALLATION OF ACOUSTICAL CEILING SYSTEMS:**

##### General Requirements:

Suspension System: Install strictly according to approved Shop Drawings layouts for spaces and manufacturer's printed instructions.

Ceiling Tile Pattern, Layout, and Type:

1. Install acoustical ceiling in patterns and types indicated on approved shop drawings and, as described in this specification.
2. Unless indicated otherwise herein or on Drawings, ceilings shall be laid out symmetrically in each space, with no less than half size panels or tiles at walls.

Installation of acoustical materials and suspension systems shall be made by experienced mechanics in strict accordance with Manufacturer's written instructions.

Fit parts neatly and accurately, true to line and plane.

Provide ceiling suspension wire support to the ceiling grid member at each corner of each opening for light fixtures, grills or diffusers.

Where hangers fall at structural members, install hanger clips in strict accordance with written instructions of Manufacturer of hanger clips.

Suspension system, including wall mold, shall be level to within 1/8" in 12 feet, with ceiling panels in place.

Exposed grid members shall be straight and in alignment. All exposed surfaces shall be flush and level.

##### General Requirements for Acoustical Ceilings:

Scribe lay-in units neatly to abutting surfaces and to penetrations or protrusions.

Exercise care to prevent soiling of ceiling tiles during installation. Leave entire system neatly and accurately fitted.

**CLEANING:** Following installation, clean all soiled and discolored surfaces. Remove and replace units, which are damaged or improperly installed.

**EXTRA STOCK:** Furnish Owner 5% of each pattern of acoustical tile installed in Project for maintenance replacements.

*END OF SECTION*