

SECTION 09510 - ACOUSTIC CEILINGS

PART I - GENERAL

1.01 DESCRIPTION

- A. The extent of acoustic panel ceilings with exposed suspension, with integrated recessed fluorescent lighting, is shown on the drawings.

1.02 QUALITY ASSURANCE

- A. Fire Performance Characteristics: Provide components identical to those tested according to ASTM, UL as listed and as acceptable to authorities having jurisdiction.
 - 1. Surface Burning: ASTM E 84
 - a. Flame Spread: 25 or less.
 - b. Smoke Developed: 50 or less.
 - 2. Fire-Resistance Ratings: Provide systems with ratings as required by authorities having jurisdiction.
- B. Comply with ASTM C 635, ASTM C 636 and Ceilings and Interior Systems Contractors Association (CISCA).

PART II - PRODUCTS

2.01 ACOUSTICAL CEILING UNITS

- A. General: Provide manufacturers standard units complying with FS SS-S-118 including all accessories required for applications encountered.
- B. Walgreens has established a National Account with Armstrong for ceiling tile and grid for all stores. Armstrong contacts are listed below.
 - 1. For Armstrong systems: Contact the Strategic Account Group 800-442-4212 (select option 1).

2.02 ACOUSTIC PANELS

- A. Provide Type III, Form 2 panels, color: white, size; 24"x 48"x 5/8",edge; square-cut lay-in from one of the following:
 - 1. Armstrong "Fine Fissured Humiguard" #1729.
- B. Provide Type III, Form 2 panels, color: white, size; 24"x 24"x 5/8",edge; square-cut lay-in from one of the following:
 - 1. Armstrong "Fine Fissured Humiguard" #1728.

2.03 METAL SUSPENSION SYSTEMS

- A. General: Double-web, direct hung system complying with ASTM C-635.
 - 1. Structural Classification: Intermediate duty.
 - 2. Metal: Hot-dipped-galvanized steel 0.015" thick x 1-1/2" high x 15/16" face.
 - 3. Color: White

- B. Hanger Wire: Provide not less than 12 gauge galvanized carbon steel ASTM A 641, soft temper.
- C. Edge Moldings and trim: Manufacturers standard metal of types and profiles required for all applications encountered. Fabricate to fit all penetrations exactly.
- D. Hold-Down Clips: Provide at 2 ft. o.c. on cross tees for interior panels subject to wind uplift or weighing less than 1 lb./sq ft
- E. Acceptable Manufacturers: Armstrong "Prelude XL" exposed tee, color; white.
- F. Seismic Areas: When required by authorities having jurisdiction provide "Heavy Duty" systems approved by local authorities: Armstrong "Prelude XL" with stab-in cross tees.
 1. Compression Posts: USG's, Donn Corporation #VSA 12, 24 or 47 as required.
 2. Edge Molding: Manufacturers 2 inch wide unit conforming to local requirements.

PART III - EXECUTION

3.01 INSTALLATION

- A. Install systems in compliance with ASTM C 636, governing regulations and fire-resistance requirements. Support hangers only from structural members. Do not attach or suspend hangers from metal deck. Locate hangers not less than 6" from each end and spaced 4ft. o.c. along main runner. Locate hangers at 4 ft. o.c. each direction if main runners are spaced greater than 4 ft. o.c. Level to within 1/8" in 12ft. Limit deflection to 1/360 of span length in inches.
- B. Install hangers plumb and free from contact with objects that are not part of structural or ceiling system. Wire connections shall be capable of supporting a 100 lb. allowable load.
- C. Provide main runners or continuous cross tees in line with the long dimension of each side of recessed lights. Provide a hanger wire at the midpoint of each cross tee located on the long dimension of a recessed light fixture. 4 ft. cross tees supporting light fixtures is prohibited. Entire suspension system shall be completely connected forming a homogeneous frame. Independent/unattached fields are prohibited.
- D. Pop rivets shall be minimized. Use only when manufacturer does not make an accessory to secure the system in the condition encountered.
- E. Provide trim and moldings as required to conceal edges of acoustic tiles.
- F. Install panels to fit accurately at borders and penetrations.
- G. Suspended ceiling system shall not be used to support ductwork, plumbing, sprinklers, insulation, etc.

3.02 ADDITIONAL SEISMIC REQUIREMENTS

- A. General: Comply with requirements of authority having jurisdiction in the respective seismic zone.

- B. Individual light fixtures or other attachments to the ceiling system, with a combined weight of 56 lbs. or less shall have two 12 gauge wire hangers attached, with slack, at diagonal corners of the fixture to prevent drop out.
 - 1. Any fixture or attachment weighing greater than 56 lbs. must be independently supported from the structure.

- C. The minimum connection strength for main and cross runner intersection/splices shall be 60 lbs. in compression and tension (must allow 5 degree offset in any direction).
 - 1. Ceiling system actual weight, including grid, panel, light fixtures and air terminals to be 2.5 lbs./sq. ft. or less. All other services must be independently supported from structure.
 - 2. For ceiling weighing more than 2.5 lbs./sq. ft. consult local authorities for requirements.
 - 3. Provide vertical compression posts or struts as required by local authorities.

- D. The ceiling system cannot be used to provide lateral support for walls or partitions.

- E. Perimeter closure angles must provide a min. 7/8", support ledge. Terminal ends of grid or tile must rest on ledge with min. 3/8" clearance from wall.
 - 1. For support ledges smaller than 7/8", terminal ends of cross or main runners shall be independently supported within 8" from each wall or ceiling discontinuity. This support must prevent grid from falling. This support should not be out of plumb greater than 1 in 6. Maintain 3/8" end clearance from wall.
 - 2. All penetrations ie; columns, sprinklers, etc. and independently supported fixtures are considered perimeter closures that must allow noted clearances.

- F. At wall closure ledges, cross and main runners must be prevented from spreading apart. Permanent attachment for grid alignment purposes is prohibited.

3.03 ADJUST AND CLEAN

- A. Clean exposed surfaces of panels, moldings and trim. Remove and replace work that cannot be cleaned to permanently eliminate evidence of damage.

3.04 ATTIC STOCK

- A. Provide two bundles (24 tiles minimum) of acoustic ceiling tiles.

END OF SECTION

