PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Suspended metal grid ceiling system for ACT.
- B. Acoustical units.
- C. Supplementary acoustical insulation above ceiling.

1.02 RELATED REQUIREMENTS

1.03 REFERENCE STANDARDS

- A. ASTM C635/C635M Standard Specification for the Manufacture, Performance, and Testing of Metal Suspension Systems for Acoustical Tile and Lay-in Panel Ceilings; 2017.
- B. ASTM E1264 Standard Classification for Acoustical Ceiling Products; 2014.

1.04 SUBMITTALS

- A. See Section 01 3000 Administrative Requirements, for submittal procedures.
- B. Maintenance Materials: Furnish the following for Owner's use in maintenance of project.
 1. See Section 01 6000 Product Requirements, for additional provisions.
- C. Delegated Design: Calculations and details, stamped by a qualified Professional Engineer, for seismic anchorage of suspended ceiling systems, as required by the local authority having jurisdiction.
- D. Certifications: Manufacturer's certifications that ceiling system complies with specified seismic performance requirements, including but not limited to ICC Evaluations and engineering calculations by a licensed structural engineer.

1.05 EXTRA MATERIALS

- A. See Section 01 6000 Product Requirements, for additional provisions.
- B. Provide one full carton of each type of acoustical unit for Owner's use in maintenance of project.

PART 2 PRODUCTS

2.01 ACOUSTICAL UNITS

- A. Manufacturers:
 - 1. Armstrong World Industries, Inc: www.armstrong.com.
 - 2. Substitutions: See Section 01 6000 Product Requirements.
- B. Acoustical Units General: ASTM E1264, Class A.
- C. Acoustical Tile Type 1: Painted mineral fiber, with the following characteristics:
 - 1. Size: 24 x 48 inches.
 - 2. Thickness: 15/16 inches.
 - 3. Ceiling Attenuation Class (CAC): 37 min., determined in accordance with ASTM E1264.
 - 4. Edge: Beveled tegular.
 - 5. Surface Color: White.
 - 6. Surface Pattern: Non-directional fissured.
 - 7. Products:
 - a. Cortega Second Look.
- D. Acoustical Tile Type 2: Painted mineral fiber, with to the following characteristics:
 - 1. Size: 24 x 48 inches.
 - 2. Thickness: 15/16 inches.
 - 3. Edge: Angled Tegular.
 - 4. Surface Color: White.
 - 5. Surface Pattern: Non-directional fissured with molded center rabbet to simulate 24 by 24-inch panels.
 - 6. Fine Fissured
 - 7. Product: Second Look II by Armstrong.

2.02 SUSPENSION SYSTEM(S)

- A. Manufacturers:
 - 1. Armstrong World Industries, Inc: www.armstrong.com.
 - 2. Substitutions: See Section 01 6000 Product Requirements.
- B. Metal Suspension Systems General: Complying with ASTM C635/C635M; die cut and interlocking components, with stabilizer bars, clips, splices, perimeter moldings, and hold down clips as required.
- C. Exposed Steel Suspension System: Formed steel, commercial quality cold rolled; heavy-duty.
 - 1. Profile: Tee; 15/16 inch wide face.
 - 2. Construction: Double web.
 - 3. Finish: White painted.
- D. Seismic Performance: Provide suspension system that has been evaluated by an independent party and found to be complaint with applicable Building Code seismic category requirements, including but not limited to ICC Evaluation Services Acceptance Criteria AC156 (as evidenced by ICC Evaluation Report ESR-1308).

2.03 ACCESSORIES

- A. Support Channels and Hangers: Galvanized steel; size and type to suit application, seismic requirements, and ceiling system flatness requirement specified.
- B. Perimeter Moldings: Same material and finish as grid.
 - 1. At Exposed Grid: Provide L-shaped molding for mounting at same elevation as face of grid.
- C. Acoustical Insulation: Specified in Section 07 2100.
 - 1. Thickness: 2 inch min.
 - 2. Size: To fit acoustical suspension system.
- D. Gasket For Perimeter Moldings: Closed cell rubber sponge tape.

PART 3 EXECUTION

3.01 INSTALLATION - SUSPENSION SYSTEM

- A. Install suspension system in accordance with ASTM C 636, ASTM E 580, and manufacturer's instructions and as supplemented in this section.
- B. Rigidly secure system, including integral mechanical and electrical components, for maximum deflection of 1:360.
- C. Locate system on room axis according to reflected plan unless noted otherwise..
- D. Install after major above-ceiling work is complete. Coordinate the location of hangers with other work.
- E. Hang suspension system independent of walls, columns, ducts, pipes and conduit. Where carrying members are spliced, avoid visible displacement of face plane of adjacent members.
- F. Where ducts or other equipment prevent the regular spacing of hangers, reinforce the nearest affected hangers and related carrying channels to span the extra distance.
- G. Do not support components on main runners or cross runners if weight causes total dead load to exceed deflection capability.
- H. Support fixture loads using supplementary hangers located within 6 inches of each corner, or support components independently.
- I. Do not eccentrically load system or induce rotation of runners.
- J. Perimeter Molding: Install at intersection of ceiling and vertical surfaces and at junctions with other interruptions.
 - 1. Use longest practical lengths.
 - 2. Overlap and rivet corners.

- A. Install acoustical units in accordance with manufacturer's instructions.
- B. Fit acoustical units in place, free from damaged edges or other defects detrimental to appearance and function.
- C. Fit border trim neatly against abutting surfaces.
- D. Install units after above-ceiling work is complete.
- E. Install acoustical units level, in uniform plane, and free from twist, warp, and dents.
- F. Cutting Acoustical Units:
 - 1. Make field cut edges of same profile as factory edges.

END OF SECTION

01/25/2019