

SECTION 233713 – AIR DEVICES

PART 1 - GENERAL

1.1 SUMMARY

- A. Section Includes:
 - 1. Air devices.
 - 2. Air device duct boots.

1.2 SUBMITTALS

- A. Product Data:
 - 1. For each type of air device, include the following:
 - 1. Data Sheet: Indicate materials of construction, finish, and mounting details; and performance data including throw and drop, static-pressure drop, and noise ratings.

PART 2 - PRODUCTS

2.1 AIR DEVICES

- A. Manufacturer:
 - 1. Basis-of-Design Product: Subject to compliance with requirements, provide product indicated on the Contract Drawings or comparable product by one of the following:
 - 1. Hart & Cooley Inc.
 - 2. METALAIRE, Inc.
 - 3. Nailor Industries Inc.
 - 4. Tuttle & Bailey.
- B. Air Device Requirements: Refer to the Air Device Schedule(s) on the Contract Drawings for the following:
 - 1. Size
 - 2. Performance
 - 3. Material
 - 4. Finish
 - 5. Accessories
- C. Quality Control: All air devices used on this project shall be manufactured by the same company.
- D. Verification of Performance: Rate diffusers, registers, and grilles according to ASHRAE 70, "Method of Testing for Rating the Performance of Air Outlets and Inlets."

2.2 AIR DEVICE DUCT BOOTS

- A. General Requirements:
 - 1. Material: Minimum 26 gauge galvanized steel.
 - 2. Air Device Connection: Rectangular, sized to match air device.
 - 3. Duct Connection: Round, sized to match flexible branch duct.
 - 4. Insulation: Externally insulate to match the R-value of the connecting flexible duct.

PART 3 - EXECUTION

3.1 INSTALLATION – AIR DEVICES

- A. Install diffusers, registers, and grilles level and plumb.
- B. Ceiling-Mounted Outlets and Inlets: Drawings indicate general arrangement of ducts, fittings, and accessories. Air outlet and inlet locations have been indicated to achieve design requirements for air volume, noise criteria, airflow pattern, throw, and pressure drop. Make final locations where indicated, as much as practical. For units installed in lay-in ceiling panels, locate units in the center of panel. Where architectural features or other items conflict with installation, notify Architect for a determination of final location.
- C. Install diffusers, registers, and grilles with airtight connections to ducts and to allow service and maintenance of dampers, air extractors, and fire dampers.

3.2 ADJUSTING

- A. After installation, adjust diffusers, registers, and grilles to air patterns indicated, or as directed, before starting air balancing.

END OF SECTION 233713