SECTION 23 37 13.23 - REGISTERS AND GRILLES

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

A. Section Includes:

1. Adjustable blade face registers and grilles.
2. Fixed face registers and grilles.

1.3 ACTION SUBMITTALS

A. Product Data: For each type of product.

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 REGISTERS

A. Adjustable Blade Face Register:
1. Material: Aluminum or Stainless steel.
2. Finish: Baked enamel, white.
3. Face Blade Arrangement: Horizontal or Vertical spaced 3 inches (76 mm) apart.
4. Core Construction: Integral.
5. Frame: 1 inch (25 mm) wide.
6. Mounting: Countersunk screw.
7. Damper Type: Adjustable opposed blade.

B. Fixed Face Register:
1. Material: Steel.
2. Finish: Baked enamel, white.
3. Face Blade Arrangement: Vertical spaced 3/4 inch (19 mm) apart.
4. Face Arrangement: Perforated core.
5. Core Construction: Integral.
6. Frame: 1 inch (25 mm) wide.
7. Mounting: Countersunk screw.
8. Damper Type: Adjustable opposed blade.

2.2 GRILLES

A. Adjustable Blade Face Grille:
   1. Material: Steel or Stainless stee].
   2. Finish: Baked enamel, white.
   3. Face Blade Arrangement: Vertical spaced 3 inches (76 mm) apart.
   4. Core Construction: Integral.
   5. Rear-Blade Arrangement: Horizontal spaced 3/4 inch (19 mm) apart.
   6. Frame:1 inch (25 mm) wide.
   7. Mounting: Countersunk screw.

B. Fixed Face Grille:
   1. Material: Steel.
   2. Finish: Baked enamel, white.
   3. Face Blade Arrangement: Vertical; spaced 3/4 inch (19 mm) apart.
   4. Face Arrangement: Perforated core.
   5. Core Construction: Integral.
   6. Frame: 1 inch (25 mm) wide.
   7. Mounting: Countersunk screw.

2.3 SOURCE QUALITY CONTROL

A. Verification of Performance: Rate registers and grilles according to ASHRAE 70, "Method of Testing for Rating the Performance of Air Outlets and Inlets."

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine areas where registers and grilles are installed for compliance with requirements for installation tolerances and other conditions affecting performance of equipment.

B. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 INSTALLATION

A. Install registers and grilles level and plumb.

B. Outlets and Inlets Locations: 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 registers and grilles with airtight connections to ducts and to allow service and maintenance of dampers, air extractors, and fire dampers.

3.3 ADJUSTING

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

END OF SECTION 23 37 13.23