

SECTION 233713.23 - AIR REGISTERS AND GRILLES

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:

1. Adjustable blade face registers and grilles.

B. Related Requirements:

1. Section 233300 "Air Duct Accessories" for fire and smoke dampers and volume-control dampers not integral to registers and grilles.
2. Section 233713.13 "Air Diffusers" for various types of air diffusers.

1.2 ACTION SUBMITTALS

- A. Product Data: For each type of product.

PART 2 - PRODUCTS

2.1 REGISTERS

A. Adjustable Blade Face Register:

1. Material: Steel.
2. Finish: Baked enamel, white.
3. Face Blade Arrangement: Horizontal spaced **3/4 inch (19 mm)** apart.
4. Core Construction: Integral.
5. Frame: **1-1/4 inches (32 mm)** wide.
6. Mounting: Countersunk screw.
7. Damper Type: Adjustable opposed blade.
8. Accessories:
 - a. Front-blade gang operator.
 - b. Filter.

2.2 GRILLES

A. Fixed Face Grille:

1. Material: Steel.

2. Finish: Baked enamel, white.
3. Face Blade Arrangement: Horizontal; spaced **3/4 inch (19 mm)** apart.
4. Face Arrangement: Perforated core.
5. Core Construction: Integral.
6. Frame: **1-1/4 inches (32 mm)** wide.
7. Mounting: Countersunk screw.
8. Accessory: Filter.

PART 3 - EXECUTION

3.1 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.

3.2 ADJUSTING

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

END OF SECTION 233713.23