SECTION 233713 - DIFFUSERS, REGISTERS, AND GRILLES

PART 1 - GENERAL

1.1 SUMMARY
A. This Section includes ceiling- and wall-mounted diffusers, registers, and grilles.

1.2 SUBMITTALS
A. Product Data: For each product indicated, include 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 MANUFACTURERS
A. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
   1. Anemostat; a Mestek Company.
   2. Carnes.
   4. METALAIRE, Inc.; Metal Industries Inc.
   5. Nailor Industries of Texas, Inc.
   7. Titus.
   8. Tuttle & Bailey.

2.2 MATERIALS
A. Material: Steel, aluminum, or stainless steel as indicated on Drawings.
B. Finish: Baked enamel, white unless otherwise indicated.
C. Mounting: As indicated on Drawings. Provide countersunk screws on surface mounted outlets.
D. Damper: Provide damper where indicated on Drawings.
   1. Opposed-blade type on square or rectangular neck outlets.
   2. Radial type on round neck outlets.
E. Accessories: As indicated on Drawings.
2.3 SOURCE QUALITY CONTROL

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

PART 3 - EXECUTION

3.1 INSTALLATION

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 practicable. Coordinate exact location with Architectural Reflected Ceiling Plan, where applicable. 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