

SECTION 15855

DIFFUSERS, REGISTERS, AND GRILLES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section

1.2 SUMMARY

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

1.3 SUBMITTALS

- A. Product Data: For each product indicated, 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 MANUFACTURERS

- A. In other Part 2 articles where titles below introduce lists, the following requirements apply to product selection
 - 1. Available products: Subject to compliance with requirements, products that may be incorporated into the Work include, but are not limited to, products specified
 - 2. Products: Subject to compliance with requirements, provide one of the products specified
 - 3. Available manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated into the Work include, but are not limited to, manufacturers specified
 - 4. Manufacturers: Subject to compliance with requirements, provide products by one of the manufacturers specified

2.2 GRILLES AND REGISTERS

- A. Fixed Face Register
 - 1. Products
 - a. Carnes
 - b. Krueger
 - c. Titus

2.3 CEILING DIFFUSER OUTLETS

A. Round Ceiling Diffuser

1. Products
 - a. Carnes
 - b. METALAIRE, Inc., Metal Industries Inc.
 - c. Titus

B. Rectangular and Square Ceiling Diffusers

1. Products
 - a. Carnes
 - b. Krueger
 - c. METALAIRE, Inc., Metal Industries Inc.
 - d. Titus

C. Drum Louver

1. Products
 - a. Krueger
 - b. METALAIRE, Inc.
 - c. Nailor Industries Inc.
 - d. Price Industries
 - e. Titus
2. Material: Aluminum, heavy gage extruded
3. Finish: White baked acrylic
4. Border: 1-1/4-inch width with countersunk screw holes
5. Gasket between drum and border
6. Body: Drum shaped; adjustable vertically
7. Blades: Individually adjustable horizontally
8. Mounting: Surface to duct

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine areas where diffusers, registers, and grilles are to be 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 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. 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 Engineer 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

3.3 ADJUSTING

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

END OF SECTION