

SECTION 23 37 00
AIR OUTLETS AND INLETS

PART 1 GENERAL

1.01 REFERENCES

- A. The following is a list of standards which may be referenced in this section:
 - 1. Air-Conditioning, Heating, and Refrigeration Institute (AHRI): 880, Air Terminals.
 - 2. ASTM International (ASTM): C636/C636M, Standard Practice for Installation of Metal Ceiling Suspension Systems for Acoustical Tile and Lay-in Panels.
 - 3. UL.

1.02 DEFINITIONS

- A. NC: Noise Criteria; background sound rating method for indoor sound.
- B. WC: Water column.

1.03 SUBMITTALS

- A. Action Submittals:
 - 1. Shop Drawings:
 - a. Manufacturer's data and descriptive literature for products specified.
 - b. Furnish the following information for each type of diffuser, register, and grille furnished.
 - 1) NC sound data.
 - 2) Static pressure loss data.
 - 3) Throw data.

PART 2 PRODUCTS

2.01 EQUIPMENT SCHEDULES

- A. Refer to Article Supplement.

2.02 CEILING DIFFUSERS

A. Premium Louvered Face Diffusers (CD):

1. Manufacturers and Products:
 - a. Titus, Model TDC.
 - b. Or equal.
2. Physical Characteristics:
 - a. Construction: Refer to Equipment Schedule.
 - b. Removable core section of louvers.
 - c. Continuous sponge rubber gasket at face flange.
3. Functional Characteristics: None.
4. Performance Characteristics:
 - a. Performance: Refer to Equipment Schedule.
 - b. Sound: Maximum NC 30.

2.03 SUPPLY GRILLES AND REGISTERS

A. Supply Grilles and Registers (SG, SR):

1. Manufacturers and Products:
 - a. Titus, Model 300.
 - b. Or equal.
2. Physical Characteristics:
 - a. Construction: Refer to Equipment Schedule.
 - b. Adjustable front horizontal and rear vertical vanes on 3/4-inch centers.
 - c. Continuous sponge rubber gasket at face flange.
 - d. One-inch minimum flat rectangular frame.
3. Functional Characteristics: None.
4. Performance Characteristics:
 - a. Performance: Refer to Equipment Schedule.
 - b. Sound: Maximum NC 30.

2.04 RETURN, EXHAUST AND TRANSFER GRILLES AND REGISTERS

A. Louvered Return, Exhaust and Transfer Grilles and Registers (RR, EG, ER):

1. Manufacturers and Products:
 - a. Titus, Model 350.
 - b. Or equal.
2. Physical Characteristics:
 - a. Construction: Refer to Equipment Schedule.
 - b. One-inch minimum flat rectangular frame.
3. Functional Characteristics: None.
4. Performance Characteristics: None.

PART 3 EXECUTION

3.01 INSTALLATION

- A. Refer to architectural reflected ceiling plans for coordination of locations of ceiling-mounted air outlets and inlets with ceiling grids and lighting. Where locations of devices shown on the Mechanical Drawings do not agree with locations that are shown on architectural reflected ceiling plans, reflected ceiling plans shall take precedence. If air outlets or inlets are shown on mechanical drawings, but are not shown on architectural reflected ceiling plans, devices shall be located as near as possible to locations shown on the Mechanical Drawings when coordinating with ceiling.
- B. Install diffusers, grilles, and registers tight on their respective mounting surfaces, level, plumb, and true with room dimensions.
- C. Support air inlets and outlets where installed in metal suspension systems for acoustical tile and lay-in panel ceilings as specified in applicable building code.

3.02 SUPPLEMENT

- A. The supplement listed below, following “End of Section,” is a part of this specification:
 - 1. Air Outlets and Inlets Schedule.

END OF SECTION

