

**SECTION 23 37 00  
AIR OUTLETS AND INLETS**

**PART 1 GENERAL**

**THE CONTRACTOR IS REFERRED TO THE “SPECIAL NOTICE TO CONTRACTORS SUMMARY FORM “THE “FORM OF PROPOSAL”; THE “FORM OF BID BOND”; “DIVISION 01 – GENERAL REQUIREMENTS” OF THE “CONTRACT SPECIFICATIONS”; THE “CONTRACT DRAWINGS” AND ALL AMENDMENTS AND ADDENDA THERETO; ALL OF WHICH GOVERN THE WORK OF THIS SECTION.**

**1.01 SECTION INCLUDES**

- A. Diffusers.
- B. Registers/grilles.

REFERENCE STANDARDS

- C. A. [ASHRAE Std 70](#) - Method of Testing the Performance of Air Outlets and Inlets; 2006 (R2011).
- D. B. SMACNA (DCS)- HVAC Duct Construction Standards Metal and Flexible; 2005 (Rev. 2009).

**1.02 SUBMITTALS**

- A. See Section 01 30 00 - Administrative Requirements for submittal procedures.
- B. Product Data: Provide data for equipment required for this project. Review outlets and inlets as to size, finish, and type of mounting prior to submission. Submit schedule of outlets and inlets showing type, size, location, application, and noise level.
- C. Project Record Documents: Record actual locations of air outlets and inlets.

**PART 2 PRODUCTS**

**2.01 MANUFACTURERS**

- A. American Louver Company; ALC Grilles and Registers: [www.americanlouver.com](http://www.americanlouver.com).
- B. Carnes, a division of Carnes Company Inc: [www.carnes.com](http://www.carnes.com).
- C. Hart & Cooley, Inc: [www.hartandcooley.com](http://www.hartandcooley.com).
- D. Krueger: [www.krueger-hvac.com](http://www.krueger-hvac.com).
- E. Price Industries: [www.price-hvac.com](http://www.price-hvac.com).
- F. Titus: [www.titus-hvac.com](http://www.titus-hvac.com).
- G. Tuttle and Bailey: [www.tuttleandbailey.com/sle](http://www.tuttleandbailey.com/sle).
- H. Approved Equal.

**2.02 WALL SUPPLY REGISTERS/GRILLES**

- A. Type: Streamlined and individually adjustable blades, 3/4 inch minimum depth, 3/4 inch maximum spacing with spring or other device to set blades, vertical face, double deflection.
- B. Frame: 1-1/4 inch margin with countersunk screw mounting and gasket.
- C. Fabrication: Steel with 20 gage, 0.0359 inch minimum frames and 22 gage, 0.0299 inch minimum blades, steel and aluminum with 20 gage, 0.0359 inch minimum frame, or aluminum extrusions, with factory baked enamel finish.

- D. Color: As shown on the drawings.
- E. Damper: Integral, gang-operated opposed blade type with removable key operator, operable from face.

### **PART 3 EXECUTION**

#### **3.01 INSTALLATION**

- A. Install in accordance with manufacturer's instructions.
- B. Check location of outlets and inlets and make necessary adjustments in position to conform with architectural features, symmetry, and lighting arrangement.
- C. Install diffusers to ductwork with air tight connection.
- D. Provide balancing dampers on duct take-off to registers, despite whether dampers are specified as part of the register assembly.

#### **3.02 AIR OUTLET AND INLET SCHEDULE-AS SPECIFIED ON THE DRAWING**

- A. Drawing Code:
- B. Manufacturer:
- C. Model:
- D. Description:
- E. Finish:
- F. Mounting:
- G. Accessories:

**END OF SECTION 23 37 00 23 37 00**