

SECTION 233700 - AIR OUTLETS AND INLETS

PART 1 - GENERAL

1.01 BUY AMERICAN REQUIREMENTS

- A. Provide certificates to show that all products meet the following requirements.
 - 1. American Iron and Steel (AIS)
 - 2. Build America, Buy America Act
- B. See Supplementary Conditions for details.

1.02 SUMMARY

- A. Section Includes:
 - 1. Louvers.
 - 2. Hoods.

1.03 REFERENCES

- A. Air Movement and Control Association International, Inc.:
 - 1. AMCA 500 - Test Methods for Louvers, Dampers, and Shutters.
- B. American Society of Heating, Refrigerating and Air-Conditioning Engineers:
 - 1. ASHRAE 70 - Method of Testing for Rating the Performance of Air Outlets and Inlets.
- C. Sheet Metal and Air Conditioning Contractors:
 - 1. SMACNA - HVAC Duct Construction Standard - Metal and Flexible.

1.04 SUBMITTALS

- A. Section 01 33 00 - Submittal Procedures: Submittal procedures.
- B. Product Data: Submit sizes, finish, and type of mounting. Submit schedule of outlets and inlets showing type, size, location, application, and noise level.
- C. Color and finish chart as noted in Products section.
- D. Manufacturer's Certificate: Certify products meet or exceed specified requirements.

PART 2 - PRODUCTS

2.01 LOUVERS

- A. Manufacturers: Ruskin
- B. Product Description: Stationary, Drainable.
- C. Type: **6 inch** deep with blades on 45 degree slope with center baffle and return bend, heavy channel frame.
- D. Fabrication: **12 gage** thick extruded aluminum, welded assembly, with factory baked enamel finish color to be selected.
- E. Mounting: Furnish with exterior angle flange for installation.
- F. Bird Screen: Bird screen with **1/2 inch** square mesh for exhaust and **3/4 inch** for intake.
- G. Insect Screen: Removable steel mesh, set in steel frame.

2.02 WEATHER HOODS

- A. Fabricate weather hoods in accordance with SMACNA HVAC Duct Construction Standards – Metal and Flexible.
- B. Fabricate of reinforced galvanized steel, minimum 18 gauge. Furnish bird screen with 1-inch square mesh. Paint hood to match exterior.
- C. Seal exterior wall penetration weather tight.
- D. Bird Screen: Bird screen with **1/2 inch** square mesh for exhaust and **3/4 inch** for intake.
- E. Insect Screen: Removable steel mesh, set in steel frame.

PART 3 - EXECUTION

3.01 EXAMINATION

- A. Section 01 30 00 - Administrative Requirements: Coordination and project conditions.
- B. Verify inlet and outlet locations.
- C. Verify wall systems are ready for installation.

3.02 INSTALLATION

- A. Install equipment in accordance with manufacturer's instructions.

3.03 INTERFACE WITH OTHER PRODUCTS

- A. Check location of outlets and inlets and make necessary adjustments in position to conform to architectural features, symmetry, and lighting arrangement.