

## SECTION 08 90 00

### LOUVERS

#### PART 1 – GENERAL

##### 1.01 SECTION INCLUDES

- A. Steel louvers.
- B. Aluminum louvers.

##### 1.02 RELATED SECTIONS

- A. Section 07 60 00, Flashing and Sheet Metal.
- B. Section 07 90 00, Joint Protection.
- C. Section 09 24 11, Portland Cement Plaster.
- D. Section 09 91 00, Painting.

##### 1.03 MEASUREMENT AND PAYMENT

- A. General: Louvers and vents will not be measured separately for payment but will be paid for as part of the Contract lump-sum price for Architectural Work.

##### 1.04 REFERENCES

- A. American Architectural Manufacturers Association (AAMA):
  - 1. AAMA 2605 Voluntary Specifications, Performance Requirements and Test Procedures for Superior Performing Organic Coatings on Aluminum Extrusions and Panels

##### 1.05 INTERFACE AND COORDINATION

- A. Coordinate the Work of this Section with mechanical Work as required for providing combustion-air, air intake, and exhaust louvers for mechanical equipment.

##### 1.06 SUBMITTALS

- A. General: Refer to Section 01 33 00, Submittal Procedures, and Section 01 33 23, Shop Drawings, Product Data, and Samples, for submittal requirements and procedures.
- B. Shop Drawings: Submit fully detailed Shop Drawings of louvers showing fabrication and installation details.

- C. Product Data: Submit manufacturer's performance data for louvers information on materials and fabrication, coating and colors, and installation instructions.
- D. Samples: Where louvers are indicated to be factory finished, submit manufacturer's standard color chips for selection of color and texture by the Engineer.

**1.07 QUALITY ASSURANCE**

- A. Design Criteria: Structural supports for louvers and vents shall be designed by the manufacturer to withstand a positive and negative wind load of 30 pounds minimum per square foot.

**PART 2 – PRODUCTS**

**2.01 STEEL LOUVERS**

- A. Louver Type: Louvers shall be heavy-duty type, manufactured of 16 gauge galvanized steel, of size, section profile, and configuration indicated, four inches deep. Include the furnishing of all accessories, frame, sill, anchors, and fasteners as required for a complete installation.
- B. Prime Coat: Louvers shall be bonderized and prime painted with a baked-on epoxy-based resin, corrosion-inhibitive metal primer in accordance with Section 09 91 00, Painting.
- C. Bird Screen: Manufacturer's standard 1/2 inch wire mesh galvanized steel bird screen, mounted in removable frame and finished as specified for louvers.
- D. Fasteners: Stainless steel or other appropriate tempered steel treated with non-corrodible material as approved by the Engineer.

**2.02 ALUMINUM LOUVERS**

- A. Louver Type: Louvers shall be heavy-duty type, manufactured of 14 gauge aluminum, of size, section profile, and configuration indicated, 4 inches deep. Include the furnishing of all accessories, frame, sill, anchors, and fasteners as required for a complete installation.
- B. Baked-Enamel Finish: All exposed aluminum surfaces shall be finished after fabrication with a satin finish, 70 percent fluoropolymer thermo-setting baked coating system which meets or exceeds the requirements of AAMA 2605. Minimum thickness shall be 1 mil. Color shall be as selected by the Engineer from manufacturer's standard color chart.
- C. Bird Screen: Manufacturer's standard 1/2 inch mesh aluminum bird screen, mounted in removable frame and finished as specified for louvers.
- D. Fasteners: Stainless steel, tempered aluminum, or other appropriate tempered steel treated with non-corrodible material as approved by the Engineer.

## **PART 3 – EXECUTION**

### **3.01 PREPARATION**

- A. Check site dimensions affecting this work. Ensure openings affecting this work are properly prepared and that flashings are correctly located to divert moisture to the exterior.

### **3.02 INSTALLATION**

- A. Louvers, including bird screen and accessories, shall be installed as indicated and in accordance with the approved Shop Drawings and the louver manufacturer's installation instructions and recommendations.
- B. Louvers shall be completely caulked and sealed around their perimeters with sealant and tape in accordance with Section 07 90 00, Joint Protection.
- C. Exterior louvers and vents, at completion of installation, shall provide rainproof, leakproof service in accordance with Section 07 60 00, Flashing and Sheet Metal.

**END OF SECTION 08 90 00**