

SECTION 08 90 00

LOUVERS

PART 1 - GENERAL

1.01 SECTION INCLUDES

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

1.02 RELATED SECTIONS

- A. Section 01 33 00 – Submittal Procedures
- B. Section 01 33 23 – Shop Drawings, Product Data, and Samples
- C. Section 07 60 00 - Flashing and Sheet Metal.
- D. Section 07 90 00 – Joint Protection.
- E. Section 09 24 11 - Portland Cement Plaster.
- F. 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.

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- 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 gage galvanized steel, 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. 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 gage 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