

## **SECTION 089100 LOUVERS**

### **PART 1 GENERAL**

#### **1.01 SECTION INCLUDES**

- A Louvers, frames, and accessories.

#### **1.02 REFERENCE STANDARDS**

- A AMCA 500-L - Laboratory Methods of Testing Louvers for Rating 2023.
- B AMCA 511 - Certified Ratings Program Product Rating Manual for Air Control Devices 2021, with Editorial Revision (2022).

#### **1.03 SUBMITTALS**

- A Product Data: Provide data describing design characteristics, maximum recommended air velocity, design free area, materials and finishes.
- B Shop Drawings: Indicate louver layout plan and elevations, opening and clearance dimensions, and tolerances; head, jamb and sill details; blade configuration, screens, blank-off areas required, and frames.
- C Test Reports: Independent agency reports showing compliance with specified performance criteria.

#### **1.04 QUALITY ASSURANCE**

- A Manufacturer Qualifications: Company specializing in manufacturing products of the type specified in this section, with minimum three years of documented experience.

#### **1.05 WARRANTY**

- A Provide five year manufacturer's warranty against distortion, metal degradation, and connection failures of louver components.
  - 1. Finish: Include ten year coverage against degradation of exterior finish.

### **PART 2 PRODUCTS**

#### **2.01 MANUFACTURERS**

- A Louvers:
  - 1. Basis of Design: Greenheck Fan Corporation; Model ESU-153.
  - 2. Construction Specialties, Inc: [www.c-sgroup.com/#sle](http://www.c-sgroup.com/#sle).
  - 3. Ruskin Company: [www.ruskin.com/#sle](http://www.ruskin.com/#sle).
  - 4. Or Approved Equal.

#### **2.02 LOUVERS**

- A Louvers: Factory fabricated and assembled, complete with frame, mullions, and accessories; AMCA Certified in accordance with AMCA 511.
  - 1. Wind Load Resistance: Design to resist positive and negative wind load of 25 psf without damage or permanent deformation.
  - 2. Intake Louvers: Design to allow maximum of 0.01 oz/sq ft water penetration at calculated intake design velocity based on design air flow and actual free area, when tested in accordance with AMCA 500-L.
  - 3. Drainable Blades: Continuous rain stop at front or rear of blade aligned with vertical gutter recessed into both jambs of frame.

4. Screens: Provide insect screens at intake louvers and bird screens at exhaust louvers.
- B Stationary Louvers: Horizontal blade, extruded aluminum construction, with intermediate mullions matching frame.
  1. Blades: Straight.
  2. Frame: 1 1/2 inches deep, channel profile; corner joints mitered and , with continuous recessed caulking channel each side.
  3. Aluminum Thickness: Frame 12 gauge, 0.0808 inch minimum; blades 12 gauge, 0.0808 inch minimum.
  4. Aluminum Finish: High performance organic coatings; finished after fabrication.

## **2.03 MATERIALS**

- A Extruded Aluminum: ASTM B221 (ASTM B221M).

## **2.04 ACCESSORIES**

- A Screens: Frame of same material as louver, with reinforced corners; removable, screw attached; installed on inside face of louver frame.
- B Sealant for Setting Sills and Sill Flashing: Non-curing butyl type.

## **PART 3 EXECUTION**

### **3.01 EXAMINATION**

- A Verify that prepared openings and flashings are ready to receive this work and opening dimensions are as indicated on shop drawings.
- B Verify that field measurements are as indicated.

### **3.02 INSTALLATION**

- A Install louver assembly in accordance with manufacturer's instructions.
- B Coordinate with installation of flashings by others.
- C Install louvers level and plumb.
- D Set sill members and sill flashing in continuous bead of sealant.
- E Align louver assembly to ensure moisture shed from flashings and diversion of moisture to exterior.
- F Secure louver frames in openings with concealed fasteners.

### **3.03 CLEANING**

- A Strip protective finish coverings.
- B Clean surfaces and components.

**END OF SECTION**