SECTION 089119 - FIXED LOUVERS

PART I - GENERAL

1.1 STIPULATIONS

A. The Specification Sections "General Conditions of Contract", "Special Conditions" and "Division 01 – General Requirements" form a part of this Section by this reference thereto, and shall have the same force and effect as if printed herewith in full.

1.2 SUMMARY

- A. Section includes fixed, extruded-aluminum louvers.
- B. Related Requirements:
 - 1. Division 23 HVAC Sections.

1.3 ACTION SUBMITTALS

- A. Product Data: For each type of product.
- B. Shop Drawings: For louvers and accessories. Include plans, elevations, sections, details, and attachments to other work. Show frame profiles and blade profiles, angles, and spacing.
- C. Samples: For each type of metal finish required.

1.4 INFORMATIONAL SUBMITTALS

A. Product Test Reports: Based on tests performed according to AMCA 500-L.

PART 2 - PRODUCTS

2.1 PERFORMANCE REQUIREMENTS

- A. Structural Performance: Louvers shall withstand the effects of gravity loads and the following loads and stresses within limits and under conditions indicated without permanent deformation of louver components, noise or metal fatigue caused by louver-blade rattle or flutter, or permanent damage to fasteners and anchors. Wind pressures shall be considered to act normal to the face of the building.
- B. Wind Loads: Determine loads based on pressures as indicated on Drawings.

2.2 FIXED, EXTRUDED-ALUMINUM LOUVERS

- A. Horizontal, Drainable-Blade Louver:
 - 1. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
 - a. Airolite Company, LLC (The).
 - b. American Warming and Ventilating; a Mestek Architectural Group company.
 - c. Construction Specialties, Inc.
 - 2. Louver Depth: 6 inches.
 - 3. Frame and Blade Nominal Thickness: Not less than 0.060 inch for blades and 0.080 inch for frames.
 - 4. Mullion Type: Exposed.
 - Louver Performance Ratings:
 - a. Free Area: Not less than 7.0 sq. ft. for 48-inch-wide by 48-inch-high louver.
 - b. Point of Beginning Water Penetration: Not less than 900 fpm.
 - c. Air Performance: Not more than 0.15-inch wg static pressure drop at 900-fpm freearea velocity.
 - 6. AMCA Seal: Mark units with AMCA Certified Ratings Seal.

2.3 LOUVER SCREENS

- A. General: Provide screen at each exterior louver.
 - 1. Screen Location for Fixed Louvers: Interior face.
 - Screening Type: Bird screening.
- B. Louver Screen Frames: Same type and form of metal as indicated for louver to which screens are attached.
- C. Louver Screening for Aluminum Louvers: Aluminum, 1/2-inch-square mesh, 0.063-inch wire.

2.4 MATERIALS

- Aluminum Extrusions: ASTM B 221, Alloy 6063-T5, T-52, or T6. Α.
- Aluminum Sheet: ASTM B 209, Alloy 3003 or 5005 with temper as required for forming, or as B. otherwise recommended by metal producer for required finish.
- Fasteners: Use types and sizes to suit unit installation conditions: C.
 - 1. Use tamper-resistant screws for exposed fasteners unless otherwise indicated.
 - For fastening aluminum, use aluminum or 300 series stainless-steel fasteners.
 - For color-finished louvers, use fasteners with heads that match color of louvers.
- Bituminous Paint: Cold-applied asphalt emulsion complying with ASTM D 1187. D.

2.5 **FABRICATION**

- Fabricate frames, including integral sills, to fit in openings of sizes indicated, with allowances Α. made for fabrication and installation tolerances, adjoining material tolerances, and perimeter Land the street of the street of the sealant joints.
- Join frame members to each other and to fixed louver blades with fillet welds unless otherwise B. indicated or size of louver assembly makes bolted connections between frame members Bulling of the second of the second necessary.

2.6

- A.
- ALUMINUM FINISHES
 High-Performance Organic Finish: Two-coat fluoropolymer finish complying with AAMA 2605 and containing not less than 70 percent PVDF resin by weight in color coat. Prepare, pretreat, and apply coating to exposed metal surfaces to comply with coating and resin manufacturers' written The structions, was as out to the Delta as a consequence of the first that the
 - 2. Color and Gloss: Custom, match Professional's sample.

PART 3 - EXECUTION 5 (Filter) (1) I see that the company of the co

INSTALLATION 3.1

- ्राप्ती के देश के कर्ती की व Locate and place louvers level, plumb, and at indicated alignment with adjacent work. A.
- Use concealed anchorages where possible. Provide brass or lead washers fitted to screws where В. required to protect metal surfaces and to make a weathertight connection.
- Provide perimeter reveals and openings of uniform width for sealants and joint fillers, as C. and the state of
- Protect unpainted galvanized and nonferrous-metal surfaces that are in contact with concrete, D. masonry, or dissimilar metals from corrosion and galvanic action by applying a heavy coating of bituminous paint or by separating surfaces with waterproof gaskets or nonmetallic flashing. Jan Barraga Maria

ADJUSTING 3.2

A. B. Restore louvers damaged during installation and construction so no evidence remains of corrective work. If results of restoration are unsuccessful, as determined by Professional, remove damaged units and replace with new units.

END OF SECTION 089119