

SECTION 08 9 1 19
FIXED LOUVERS

PART 1 - GENERAL

1.01 REFERENCE STANDARDS

- A. AAMA 2604 - Voluntary Specification, Performance Requirements and Test Procedures for High Performance Organic Coatings on Aluminum Extrusions and Panels (with Coil Coating Appendix); 2022.
- B. ASTM B221 - Standard Specification for Aluminum and Aluminum-Alloy Extruded Bars, Rods, Wire, Profiles, and Tubes; 2021.
- C. AWS D1.2/D1.2M - Structural Welding Code - Aluminum; 2014, with Errata (2020).

PART 2 - PRODUCTS

2.01 MANUFACTURERS

- A. Source Limitations: Obtain louvers and vents from single source from a single manufacturer where indicated to be of same type, design, or factory-applied color finish.
- B. MATERIALS
- C. Aluminum Extrusions: ASTM B221 ((ASTM B221M)), Alloy 6063-T5.
- D. FIXED, EXTRUDED-ALUMINUM LOUVERS
- E. Manufacturers: GREENHECK ESD – 635X Or Equal
- F. Fasteners: Use types and sizes to suit unit installation conditions.
- G. Use tamper-resistant screws for exposed fasteners unless otherwise indicated.
- H. For fastening aluminum, use aluminum or 300 series stainless-steel fasteners.
- I. For color-finished louvers, use fasteners with heads that match color of louvers.
- J. LOUVER SCREENS
- K. General: Provide screen at each exterior louver.
 - 1. Screening Type: Bird screening.
- L. Secure screen frames to louver frames with stainless-steel machine screws or machine screws with heads finished to match louver, spaced a maximum of 6 inches from each corner and at 12 inches o.c.
- M. Louver Screen Frames: Fabricate with mitered corners to louver sizes indicated.
 - 1. Metal: Same kind and form of metal as indicated for louver to which screens are attached.
 - 2. Finish: Same finish as louver frames to which louver screens are attached.
 - 3. Type: Non-rewirable, U-shaped frames.
 - a. Louver Screening for Aluminum Louvers:
 - 4. Bird Screening: Aluminum, 1/2-inch- (13-mm-) square mesh, 0.063-inch (1.60-mm) wire.
- N. Clean exposed surfaces of louvers and vents that are not protected by temporary covering, to remove fingerprints and soil during construction period. Do not let soil accumulate during construction period.
- O. Before final inspection, clean exposed surfaces with water and a mild soap or detergent not harmful to finishes. Thoroughly rinse surfaces and dry.
- P. Restore louvers and vents damaged during installation and construction so no evidence remains of corrective work. If results of restoration are unsuccessful, as determined by Architect, remove damaged units and replace with new units.
- Q. Touch up minor abrasions in finishes with air-dried coating that matches color and gloss of, and is compatible with, factory-applied finish coating.

2.02 FABRICATION, GENERAL

- A. Assemble louvers in factory to minimize field splicing and assembly.
- B. Disassemble units as necessary for shipping and handling limitations. Clearly mark units for reassembly and coordinated installation.
- C. Maintain equal louver blade spacing, including separation between blades and frames at head and sill, to produce uniform appearance.
- D. Fabricate frames, including integral sills, to fit in openings of sizes indicated, with allowances made for fabrication and installation tolerances, adjoining material tolerances, and perimeter sealant joints.
 - 1. Frame Type: Exterior flange unless otherwise indicated.
- E. Include supports, anchorages, and accessories required for complete assembly.

2.03 FINISHES, GENERAL

- A. Comply with NAAMM's "Metal Finishes Manual for Architectural and Metal Products" for recommendations for applying and designating finishes, except as otherwise indicated.

2.04 ALUMINUM FINISHES

- A. Finish louvers after assembly.
- B. 2-coat 70% Kynar 500 Hylar 5000 – AAMA 2604, dry film thickness 1.2 mil.
 - 1. Color: As selected by Architect from full range of industry colors and color densities.

PART 3 - EXECUTION

3.01 EXAMINATION

- 1) Examine substrates and openings, with Installer present, for compliance with requirements for installation tolerances and other conditions affecting performance of the Work.
- 2) Proceed with installation only after unsatisfactory conditions have been corrected.

3.02 PREPARATION

- a. Coordinate setting drawings, diagrams, templates, instructions, and directions for installation of anchorages that are to be embedded in concrete or masonry construction. Coordinate delivery of such items to Project site.

3.03 INSTALLATION

- 1) Locate and place louvers and vents level, plumb, and at indicated alignment with adjacent work.
- 2) Use concealed anchorages where possible. Provide brass or lead washers fitted to screws where required to protect metal surfaces and to make a weather tight connection.
- 3) Form closely fitted joints with exposed connections accurately located and secured.
- 4) Provide perimeter reveals and openings of uniform width for sealants and joint fillers, as indicated.
- 5) Protect unpainted galvanized and nonferrous-metal surfaces that will be in contact with concrete, 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.
- 6) Install concealed gaskets, flashings, joint fillers, and insulation as louver installation progresses, where weathertight louver joints are required. Comply with Division 07 Section "Joint Sealants" for sealants applied during louver installation.

(a) ADJUSTING AND CLEANING

- 7) Clean exposed surfaces of louvers and vents that are not protected by temporary covering, to remove fingerprints and soil during construction period. Do not let soil accumulate during construction period.
 - 8) Before final inspection, clean exposed surfaces with water and a mild soap or detergent not harmful to finishes. Thoroughly rinse surfaces and dry.
 - 9) Restore louvers and vents damaged during installation and construction so no evidence remains of corrective work. If results of restoration are unsuccessful, as determined by Architect, remove damaged units and replace with new units.
2. Touch up minor abrasions in finishes with air-dried coating that matches color and gloss of, and is compatible with, factory-applied finish coating.

END OF SECTION 08 9 1 19