# PRODUCT SPECIFICATION GUIDE

# MODEL: FORMED METAL STATIONARY LOUVER

# DIVISION 08 – OPENINGS (PREVIOUSLY DIVISION 10 & 15)

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Specifier Notes: This product guide specification is written according to the Construction Specifications Institute (CSI) Format.

The section must be carefully reviewed and edited by the Engineer to meet the requirements of the project and local building code. Coordinate with other specification sections and the drawings.

Delete all "Specifier Notes" when editing this section.

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SECTION 089000

FORMED METAL STATIONARY LOUVERS

1. GENERAL

SECTION INCLUDES

* + - * 1. Formed Metal Stationary Louver with Drainable Blades.

RELATED SECTIONS

* + - * 1. Section 033000 – Cast-in-Place Concrete
        2. Section 042000 – Unit Masonry.
        3. Section 051000 – Structural Metal Framing.
        4. Section 061000 – Rough Carpentry.
        5. Section 074200 – Metal Wall Panels.
        6. Section 076000 – Flashing and Sheet Metal.
        7. Section 079200 – Joint Sealants.
        8. Section 089500 – Vents.
        9. Section 099113 – Exterior Painting.

REFERENCES

* + - * 1. AMCA 500-L – Laboratory Methods of Testing Louvers for Rating.
        2. ASCE 7 – Minimum Design Loads for Buildings and Other Structures.
        3. ASTM D822 – Standard Practice for Filtered Open-Flame Carbon-Arc Exposure of Paint and Related Coatings.
        4. ASTM D4214 – Standard Test Method for Evaluating the Degree of Chalking of Exterior Paint Films.
        5. ASTM D2244 – Standard Test Method for Calculation of Color Differences from Instrumentally Measured Color Coordinates.
        6. ASTM E 90 – Laboratory Measurements of Airborne Sound Transmission Loss of Building Partitions.

SUBMITTALS

* + - * 1. Comply with requirements of Section 013300 - Submittal Procedures.
        2. Product Data: Submit manufacturer's product data.

Printed catalog pages showing specified model AMCA Certified Ratings.

* + - * 1. Shop Drawings: Submit shop drawings indicating materials, construction, dimensions, accessories, and installation details.
        2. Samples: Submit color chip sample for units with factory-applied paint.

QUALITY ASSURANCE

* + - * 1. Louvers shall be warranted against manufacturing defects for a period of 5 years.

DELIVERY, STORAGE, AND HANDLING

* + - * 1. Delivery: Deliver materials to site in manufacturer's original, unopened containers and packaging, with labels clearly indicating manufacturer, material, and location of installation.
        2. Storage: Store materials in a dry area indoor and protected from damage and in accordance with manufacturer’s instructions.
        3. Handling: Protect materials and finishes during handling and installation to prevent damage.
        4. Store and dispose of solvent-based materials, and material used with solvent based materials, in accordance with requirements of local authorities having jurisdiction.

PROJECT CONDITIONS

* + - * 1. Maintain environmental conditions (temperature, humidity, and ventilation) within limits recommended by the manufacturer for optimum results. Do not install products under environmental conditions outside manufacturer’s absolute limits.
        2. Field Measurements: Verify actual dimensions of openings by field measurements before fabrication.

1. PRODUCTS

MANUFACTURER

* + - * 1. United Enertech, 3005 South Hickory Street, Chattanooga, TN 37407. Phone: 423.698.7715 www.unitedenertech.com

FORMED METAL STATIONARY LOUVER

* + - * 1. Model: SFL-D-4
        2. Construction:

Material: Mill Finish 18 ga. galvanized steel.

Frame: 4.13” (105mm) deep x 18 ga. thick channel frame. [flanged].

Blades: 45° x 18 ga. thick drainable style. 3.94” (100mm) centers

Screen: 0.50” x .050” (12.7mm x 1.27mm) expanded and flattened aluminum. [**18-by-16 (1.4-by-1.6mm) mesh aluminum insect screen**]

Mullion: Visible.

* + - * 1. Performance Data:

Based on testing 48” x 48” (1219mm x 1219mm) size unit in accordance with AMCA 500L.

Free Area: 47% nominal

Free Area Size: 7.47 ft²

Maximum Recommended Air Flow thru Free Area: 1056 fpm

Air Flow: 7888 cfm

Maximum Pressure Drop: 0.15 in. wg.

Water Penetration: Maximum of .01 ounces per square foot (3.1 g/m²) of free area at an air flow of 1056 fpm free area velocity when tested for 15 minutes.

* + - * 1. Design Load:

Wind Load: Louver designs shall withstand the effects of 30 psf (1.44 kPa) of uniform pressure acting inward or outward.

Seismic Performance: Louvers, including attachments to other construction, shall withstand seismic effects determined by ASCE-7.

ACCESSORIES

* + - * 1. Blank-Off Panels

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* Non-insulated, aluminum, .050” (1.27mm) nominal thickness, black finish, factory installed.
* Insulated, aluminum skin with 1” (25mm) insulated core, closure frame with perimeter gasket, black finish, and factory installed.
* Insulated, aluminum skin with 2” (51mm) insulated core, closure frame with perimeter gasket, black finish, and factory installed.
  + - * 1. Extended sills, aluminum, .050” (1.27mm) nominal thickness, finished to match louver.

FINISHES

* + - * 1. Finish louvers after assembly as follows:

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* Mill finish
* Baked Enamel or Powder Coat finish: Immediately after cleaning and pretreating, apply manufacturer’s standard 2-coat baked-on finish consisting of prime coat and thermosetting topcoat, with a minimum dry thickness of 1 mil (.025mm) for topcoat to comply with coating manufacturer’s written instructions.
  + - * Color and Gloss: [**As indicated by manufacturer’s designations**] [**Match Architect’s sample**] [**As selected by Architect from manufacturer’s full range**] <**Insert color and gloss**>

1. EXECUTION

EXAMINATION

* + - * 1. Examine substrates and openings for compliance with requirements for installation tolerances and other conditions affecting performance.
        2. Proceed with installation only after unsatisfactory conditions have been corrected.

PREPARATION

* + - * 1. Clean Opening thoroughly prior to installation.
        2. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.

INSTALLATION

* + - * 1. Install louvers at locations as indicated on the drawings and in accordance with manufacturer’s instructions.
        2. Install louvers plumb, level, in plane of wall, and in alignment with adjacent work.
        3. Install joint sealants as specified in Section 079000.

CLEANING

* + - * 1. Clean exposed surfaces of louvers with water and mild soap or detergent not harmful to finish taking care to remove fingerprints and soil. Thoroughly rinse surfaces and dry. Do not let soil accumulate during construction period.
        2. Touch-up, repair, or replace louvers damaged during installation and construction so that no evidence remains of the corrective work.

END OF SECTION