SECTION 089000

LOUVERS AND VENTS

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**NOTE TO SPECIFIER**

*Use this Specification Section for Mail Processing Facilities.*

***This is a Type 1 Specification with completely editable text; therefore, any portion of the text can be modified by the A/E preparing the Solicitation Package to suit the project.***

*For Design/Build projects, do not delete the Notes to Specifier in this Section so that they may be available to Design/Build entity when preparing the Construction Documents.*

*For the Design/Build entity, this specification is intended as a guide for the Architect/Engineer preparing the Construction Documents.*

*The MPF specifications may also be used for Design/Bid/Build projects. In either case, it is the responsibility of the design professional to edit the Specifications Sections as appropriate for the project.*

*Text shown in brackets must be modified as needed for project specific requirements.* *See the “Using the USPS Guide Specifications” document in Folder C for more information.*

*The last date that USPS revised this standard specification section occurs in two places, at the end of this section and in the Table of Contents. If the date in this section matches the date in the Table of Contents, then you are using the latest version. Do not delete or revise the “last revised” date at the end of the section during the development of the Project Manual.*

*The footer in this section should be edited to replace the text, “USPS MPF SPECIFICATION” with the project name, and the blank date in the center should be replaced with the submission date, for interim design reviews, or the issue date of the completed Project Manual.*

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1. GENERAL
	1. SUMMARY
		1. Section Includes:
			1. Fixed aluminum wall louvers.
			2. Fixed steel wall louvers.
			3. Insect screening.
		2. Related Documents: The Contract Documents, as defined in Section 011000 - Summary of Work, apply to the Work of this Section. Additional requirements and information necessary to complete the Work of this Section may be found in other Documents.
		3. Related Sections:
			1. Section 079200 - Joint Sealants: Perimeter sealant at louver frames.
			2. Section 055000 - Metal Fabrications: Security grille at louvers.
	2. REFERENCES
		1. American Society for Testing and Materials (ASTM):
			1. ASTM B221 - Aluminum-Alloy Extruded Bars, Rods, Wire, Shapes, and Tubes.
	3. SUBMITTALS
		1. Section 013300 - Submittal Procedures: Procedures for submittals.
			1. Product Data: Provide data describing design characteristics, maximum recommended air velocity, design free area, materials and finishes.
			2. Shop Drawings: Indicate louver layout plan and elevations, opening and clearance dimensions, tolerances; head, jamb and sill details; blade configuration, screens, blankout areas required, and frames.
			3. Assurance/Control Submittals:
				1. Certificates: Manufacturer's certificate that Products meet or exceed specified requirements.
				2. Qualification Documentation: Submit documentation of experience indicating compliance with specified qualification requirements.
	4. QUALITY ASSURANCE
		1. Qualifications:
			1. Manufacturer: Company specializing in manufacturing Products specified with minimum 5 years documented experience.
			2. Installer: Company specializing in performing the Work of this Section with minimum 5 years documented experience.
	5. DELIVERY, STORAGE, AND HANDLING
		1. Section 016000 - Product Requirements: Transport, handle, store, and protect Products.
2. PRODUCTS

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**NOTE TO SPECIFIER**

Verify manufacturer information, Product numbers, and availability at time of Project Manual preparation for Project.

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* 1. MANUFACTURERS
		1. Subject to compliance with project requirements, manufacturers offering Products which may be incorporated in the Work include the following:
			1. The Arolite Company, Marietta, OH (740) 373-7676..
			2. Airoline.
			3. Construction Specialties, Incorporated, Cranford, NJ (908) 272-5200.
		2. Section 016000 - Product Requirements: Product options and substitutions. Substitutions: Permitted.
	2. ALUMINUM LOUVERS
		1. Type: 4 inch deep with blades on 45 degree slope. ASTM B221, extruded shape, prefinished with shop applied flouropolymer polyvinylidene fluoride finish. Coordinate color finish with Architect.
		2. Fabrication: Material thickness of 0.081 inch minimum, integral and lateral rain water stops positioned on blade.
		3. Frame: Channel shape, mechanically fastened corner joints, material thickness of 0.081 inch minimum.
	3. STEEL LOUVERS
		1. Type: 6 inch deep with blades on 45 degree slope with center baffle and return bend, heavy channel frame, birdscreen with 1/2 inch square mesh for exhaust and 3/4 inch for intake.
		2. Fabrication: 16 gage thick galvanized steel or welded assembly, with factory baked enamel finish as scheduled on Drawings. Coordinate color finish with Architect.
		3. Mounting: Furnish with exterior flat flange for installation.
	4. INSECT SCREENS
		1. 18 x 16 size aluminum mesh set in aluminum frame.
		2. Install screen mesh in shaped frame, reinforce corner construction, shop install to louver with fasteners.
	5. ACCESSORIES
		1. Fasteners and Anchors: Stainless steel type.
		2. Flashings: Of same material as louver frame. Extruded to required shape, single length in one piece per location.
		3. Sealants: Specified in Section 079200.
1. EXECUTION
	1. EXAMINATION
		1. Section 017300 - Execution: Verification of existing conditions before starting work.
		2. Verification of Conditions: Verify that field measurements, surfaces, substrates and conditions are as required, and ready to receive Work.
		3. Report in writing to Contracting Officer prevailing conditions that will adversely affect satisfactory execution of the Work of this Section. Do not proceed with Work until unsatisfactory conditions have been corrected.
		4. By beginning Work, Contractor accepts conditions and assumes responsibility for correcting unsuitable conditions encountered at no additional cost to the United States Postal Service.
	2. INSTALLATION
		1. Install louver assembly in accordance with manufacturer's published instructions.
		2. Install louvers level and plumb.
		3. Install flashings and align louver assembly to ensure moisture shed from flashings and diversion of moisture to exterior.
		4. Secure louvers in opening framing with concealed fasteners.
		5. Install perimeter sealant in accordance with Section 079200.
		6. Install security grille in accordance with Section 055000.

END OF SECTION

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