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077239
OPERABLE ROOF VENTS

PART 1 GENERAL

1.1 SUMMARY

- A. Section Includes: This Section specifies operable roof vents.

Specifier Note: Revise Paragraph below to suit project requirements. Add section numbers and titles per specifier's practice.

- B. Related Requirements:

Specifier Note: Include in this Paragraph only those sections and documents that directly affect the work of this section. If a reader of this section could reasonably expect to find a product or component specified in this section, but it is actually specified elsewhere, then the related section number(s) should be listed in the Subparagraph below. Do not include Division 00 documents or Division 01 sections since it is assumed that all technical sections are related to all project Division 00 documents and Division 01 sections to some degree. Refer to other documents with caution since referencing them may cause them to be considered part of the Contract.

1. Section [077113 – Manufactured Curbs] for installation of operable vents on custom sloped curbs to provide level mounting surfaces for operable vents at sloped roof structures.

Specifier Note: Select "Division [26 – Electrical] for rough-in and connection of motorized damper." if "motorized damper" is selected for release device.

2. Division [26 – Electrical] for rough-in and connection of 115v/1ph power open spring close actuator for motorized damper.
3. [].

1.2 REFERENCES

Specifier Note: Define terms that are unique to this Section and are not provided elsewhere in the contract documents. Include in this Article terms that are unique to the work result specified that may not be commonly known in the construction industry.

Specifier Note: Paragraph below may be omitted when specifying manufacturer's proprietary products and recommended installation. Retain References Paragraph when specifying products and installation by an industry reference standard. List retained standard(s) referenced in this section alphabetically. Indicate issuing authority name, acronym, standard designation and title. Establish policy for indicating edition date of standard referenced. Contract Conditions Section 01 42 00 - References may establish the edition date of standards. This Paragraph does not require compliance with standard(s). It is a listing of all references used in this section. Only include here standards that are referenced in the body of the specification in PARTS 1, 2 and/or 3. Do not include references to building codes at any level.

- A. Reference Standards:

1. AS 4070:2000
 - a. Discharge coefficient; Physical test as per Appendix D
 - b. Flow Coefficient; Physical test as per Appendix E
 - c. Rain Resistance Test; Physical test as per AS4740:2000
 - d. Wind loading; Physical Test as per AS4740:2000

1.3 SUBMITTALS

- A. Product Data: Manufacturer's standard specifications, descriptive literature and certifications, including:
 - 1. Spec-Data product sheets.
 - 2. Catalog cut-sheets.

Specifier Note: Select "Wiring diagrams" if "motorized damper" is selected.

- 3. [Wiring diagrams.]
 - 4. Blank warranty form.
 - 5. [].
- B. Shop Drawings: Graphic information specifically prepared for this project, including:
 - 1. Dimensioned plans, elevations, and construction details indicating full extent of work
 - 2. Verified field dimensions.
 - 3. [].

Specifier Note: Specify submittals to document manufacturer's storage, installation and other instructions.

- C. Manufacturer's Written Instructions, including:
 - 1. Delivery, storage and handling.
 - 2. Preparation and Installation.
 - 3. Maintenance.
 - 4. [].

Specifier Note: Coordinate Article below with Contract Conditions and with Section 01 78 36 – Warranties.

- D. Warranty: Fully executed, issued in [Owner's] name, and registered with manufacturer, including:
 - 1. Manufacturer's [5-year] limited warranty covering defects in materials and workmanship of operable vent unit.
 - 2. [].

1.4 QUALITY ASSURANCE

Specifier Note: Moffitt offers turn-key product design and installation services. Select turn-key service by manufacturer, or installation only by independent installer.

- A. [Manufacturer's Turn-Key Service: Including assistance with product selection, custom product design, fabrication and installation of work required for this project.]
- B. [Installer: Specialized in installation of work required for this project.]

1.5 DELIVERY, STORAGE AND HANDLING

- A. Deliver, store and handle operable vents in accordance with manufacturer's written instructions.
- B. Deliver operable vents in manufacturer's original packaging with identification labels intact; store in dry, protected, and well ventilated area; inspect products upon receipt; report any damage to carrier, and note extent of any damage on carrier's bill of lading.

Specifier Note: USGBC's LEED® certification includes credits for the diversion of construction waste from landfill. Diversion can be tracked by either weight or volume but must be consistent for all materials. Manufacturer may reclaim packaging and delivery materials for recycling.

- C. Remove packaging materials from site and dispose of at appropriate recycling facilities.
- D. [].

PART 2 PRODUCTS

Specifier Note: Retain Article below for proprietary method specification. Add product attributes, performance characteristics, material standards and descriptions as applicable. Use of such phrases as or equal, approved equal or similar phrases may cause ambiguity in specifications. Such phrases require verification (procedural, legal and regulatory) and assignment of responsibility for determining or equal products.

2.1 SMOKE VENTS

Specifier Note: Include in the following Paragraph; manufacturer's name, address, phone number, fax number, email address and website URL.

- A. Manufacturer: Moffitt Corporation; 1351 13th Avenue South; Suite 130; Jacksonville, FL 32250; Phone: 800-474-3267; Fax: 904-246-8333; Email: sales@moffittcorp.com ; Website: www.moffittcorp.com
 - 1. Single Source Responsibility: Provide components and materials specified in this section from a single manufacturer.

Specifier Note: Substitution procedures must either be in the Contract Conditions or in Section 01 25 00 – Substitution Procedures. Do not include substitution procedures here.

- 2. Substitutions: In accordance with [Contract Conditions] [Section 012500 – Substitution Procedures] [No substitutions permitted].

Specifier Note: Include an overall description of the system, assembly, product or material. Include required properties or characteristics that do not obviously belong under other titles. Examples: Configuration, size and color.

- B. Product: Moffitt GreenRoo Wind Driven Turbine Natural Ventilator meeting AS 4070:2000; Discharge coefficient (Cd) of 0.63, flow coefficient (Cf) of 0.17, Class A no water penetration at 112MPH wind, wind loading to minimum 127.5MPH.
 - 1. Height: 37 inches (940 mm); installed without curb.
 - 2. Operation: Exhaust air from the space through the forces of natural ventilation and wind effect per performance charts based on actual tests.

Specifier Note: Select installation method based on manufacturer's recommendation for minimum slope of roof structure that would require operable vents be mounted on custom sloped curbs to provide level mounting surfaces for operable vents.

- 3. Installation Method: [With curb]

Specifier Note: Select model based on vent opening size and performance chart. Custom sizes are available upon request.

- C. Model:
 - 1. [GreenRoo 36: 26 inch diameter (914 mm) vent opening size; 60 pounds (28 kg) unit weight.]
- D. Components:
 - 1. Construction: marine grade aluminum
 - 2. Shaft: Stainless steel
 - 3. Bearings: Top and bottom bearing double row ball bearings.
 - 4. Base: Curb cap for curb mounting.
- E. Performance:
 - 1. Air flow performance: Coefficient of discharge (Cd) 0.63; Flow Coefficient(Cf) 0.17.
 - 2. Rain resistance; Class A, no water penetration up to 112MPH
 - 3. Wind Loading; Minimum 127.5MPH

2.2 ACCESSORIES

- A. Damper: curb mount, center pivot, motorized with 115volt, single phase power open/spring close actuator
- B. Bird screen; ½" aluminum mesh (not typically required or recommended due to rotating head)
- C. Insect Screen; stainless steel (not typically required unless a food grade application)

PART 3 EXECUTION

3.1 EXAMINATION

- A. Verify that conditions of work previously installed under other sections or contracts are acceptable for installation of smoke vents in accordance with manufacturer's written instructions.
 - 1. Notify [Architect] of unacceptable conditions upon discovery.
 - 2. Proceed with preparation and installation only after unacceptable conditions have been corrected.

B. [].

Specifier Note: Specify actions required to prepare the surface, area or site for incorporation of the section's primary products. Describe requirements for exposure or removal of existing assemblies, components, products or materials.

3.2 PREPARATION

Specifier Note: Specify preparatory work required prior to installation/application/erection of primary products.

A. Prepare mounting locations for installation of operable vents in accordance with manufacturer's written instructions, ICC/ANSI guidelines and approved submittals.

B. [].

3.3 INSTALLATION

A. Install operable vents in accordance with manufacturer's written instructions, and approved submittals.

B. [].

3.4 CLEANING

A. Clean-up waste and debris daily during installation.

B. Upon completion, remove surplus materials, remaining debris, tools and equipment.

C. Collect recyclable waste and dispose of as directed.

D. [].

Specifier Note: Specify protection methods completed after installation, but prior to acceptance by the owner. Protection of surrounding areas and surfaces during application or installation is included under PART 3, Preparation. Include only statements unique to this Section.

3.5 PROTECTION

A. Protect installed product from damage during construction.

B. Repair damage to adjacent materials caused by installation of operable vents.

C. [].

3.6 ATTACHMENTS

Specifier Note: Schedules are sometimes placed in the specifications rather than on drawings. Include schedules that indicate item/element/product/equipment, location and other coordinating data.

A. Operable Vent Schedule:

B. [].

END OF SECTION