

This specification includes smoke and natural ventilation products for commercial buildings manufactured by Moffitt Corporation as licensed by Colt Group. Before including this specification in your Project Manual, delete ventilator types and options not required for your project. For more information, please visit our website www.moffittcorp.com or call 904-241-9944.

SECTION 077800
NATURAL VENTILATORS
MOFFITT KAMELEON LICENSED BY COLT GROUP

PART 1 - GENERAL

1.1 SUMMARY

- A. Work Included: Provide labor, materials and equipment necessary to complete the work of this Section, including but not limited to the following:
 - 1) Natural façade ventilators.
- B. Related Work: The following items are not included in this Section and are specified under the designated Sections:
 - 1) Division 23 - HEATING, VENTILATING AND AIR CONDITIONING for louvers and ventilators that are a part of mechanical equipment.

1.2 SUBMITTALS

- A. Product Data: Submit manufacturer's product data.
- B. Shop Drawings: Submit shop drawings including plans, elevations, sections, details, and attachment to adjacent Work.
- C. Warranty: Submit executed copy of manufacturer's standard warranty.

1.3 QUALITY ASSURANCE

- A. Manufacturer: A minimum of 5 years experience manufacturing similar products.
- B. Installer: A minimum of 2 years experience installing similar products.

1.4 PROJECT CONDITIONS

- A. Field Measurements: For custom sized units, verify openings by field measurements before fabrication and indicate measurements on Shop Drawings.
 - 1) Established Dimensions: Where field measurements cannot be made without delaying the Work, establish opening dimensions and proceed with fabricating louvers without field measurements. Coordinate construction to ensure that actual opening dimensions correspond to established dimensions.

1.5 WARRANTY

- A. Warranty: Provide manufacturer's standard warranty against defects in materials in workmanship.

PART 2 - PRODUCTS

2.1 MANUFACTURER

- A. Basis-of-Design Manufacturer: Moffitt Corporation, 1351 13th Avenue South, Suite 130 Jacksonville Beach, FL 32250. Tel: 904-241-9944. Fax: 904-246-8333. www.moffittcorp.com.

2.2 VENTILATORS

- A. Natural Façade Ventilators: Kameleon by Moffitt Corporation, as licensed by Colt Group.
- 1) Description: Natural flap ventilator, suitable for natural day to day ventilation and smoke control, conforming to EN 12101-2.
 - 2) Type: [Hinges at the bottom.] [Hinges at the top.]
 - 3) Dimensions / Size Range: From (458mm) to (2558mm) in width in (1mm) increments and from (458mm) to (2558mm) in length in (1mm) increments.
 - 4) Panels: [Large flap profile and infill panel of insulating glass with an overall width of 28mm comprising of 6mm float glass, a 16mm gap and 33.1 laminated external safety glass.] [Clear polycarbonate 25mm width.] [Opaque translucent polycarbonate 25mm width.] [Aluminum infill panels external skin 2mm, 24mm insulation, internal aluminum skin 2 mm.]
 - 5) Materials: Components of the base and flap are manufactured from EN AW-6063 T6 aluminum alloy. The frames of both the base and flap are thermally broken.
 - 6) Aluminum Finish: [Mill finish, standard.] [Polyester powder paint to a RAL color, standard 110 mu, 2-layer, with a gloss of 70%+/-10% (Semi-gloss) painted to D2525 AAMA2604.] or [Anodized, standard 20 mu.]
 - 7) Mounting: [Fixing to curtain walling using (26mm) to (36mm) thermally broken glazing frame adaptor.] [Fixing to structural opening using either through frame or strap fixings.]
 - 8) Controls: [24V DC electric (for smoke and day to day ventilation). Visible or hidden, all controls are installed behind the slim profiles.]
 - 9) Smoke Ventilator: If used as a smoke ventilator, activation is by responding to an external release signal.
 - 10) Performance: The following performance attributes follow tests to EN 12101-2:2003 (standard for smoke and heat exhaust ventilators) and EN 14351-1:2006 (standard for windows and doors). The exact performance attribute will depend on the chosen size, controls, and flap type.
 - a. Reliability Class: Re 1000.
 - b. Wind Load Class: Up to WL 3000.
 - c. Snow Load Class: SL 0.
 - d. High Temperature Class: B 300.
 - e. Low Temperature Class: T(00) to T(-25).
 - f. Materials Resistance to Fire: E (to EN 13501-1).
 - g. U-Value: Up to 1.0 W/m²K.
 - h. Aerodynamic Coefficient: Up to 0.65.

- i. Air Permeability: Class 4 - Maximum of 0.20m³/hr/m² or 0.07m³/hr/m at 100Pa.
- j. Water Tightness: Class 9 A - No leaks at static pressure of up to and including 600Pa.
- k. Sound Insulation (R'w): Up to 42 (-1:-4) dB.
- l. Compliance: Tested to and in compliance with EN 12101-2 and CE marked.

2.3 FABRICATION, GENERAL

- A. Assemble units in factory to minimize field splicing and assembly. Disassemble units as necessary for shipping and handling limitations. Clearly mark units for reassembly and coordinated installation.
- B. Fabricate frames to fit in openings of sizes indicated, with allowances made for fabrication and installation tolerances, adjoining material tolerances, and perimeter sealant joints. Include anchors and accessories required for complete assembly.

PART 3 - EXECUTION

3.1 EXAMINATION

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

3.2 INSTALLATION.

- A. Install products in strict accordance with manufacturer's instructions and approved submittals. Locate units level, plumb, and in proper alignment with adjacent work. Use concealed anchorages where possible.
 - 1) Form closely fitted joints with connections accurately located and secured.
 - 2) Provide perimeter reveals of uniform width for sealants and joint fillers.
 - 3) Test operable units for proper function and adjust until proper operation is achieved.
 - 4) Repair finishes damaged by cutting, welding, soldering, and grinding. .
 - 5) Restore finishes so no evidence remains of corrective work.

3.3 ADJUSTING AND CLEANING

- A. Clean exposed surfaces using methods acceptable to the manufacturer which will not damage finish.

END OF SECTION