SECTION 08720

ALUMINUM LOUVERS

PART 1 - GENERAL

1.01 SCOPE OF WORK:

A. The work under this section includes furnishing and installing aluminum intake and exhaust louvers as required and as shown on the Drawings; and other related items necessary for a complete installation, as indicated on the Contract Drawings.

1.02 RELATED WORK:

A. Section 07920 - Caulking and Sealants

B. Section 09900 -Painting (Short)

1.03 STANDARDS:

A. Aluminum Association (AA)

B. Architectural Aluminum Manufacturer's Association (AAMA)

C. Florida Building Code (FBC), latest edition.

1.04 QUALITY ASSURANCE:

A. Comply with the requirements of the Florida Building Code for wind pressure and infiltration and as specified herein. Provide Miami-Dade County Product Control Approval Notice of Acceptance. Units without this approval will not be acceptable.

B. Intake louver design shall incorporate structural supports required to withstand a maximum design pressure load of ± 150 lbs. per. sq. ft. and exhaust louvers shall withstand a maximum design pressure of ± 207 lbs. Per sq. ft. Where the requirements of 1.04A, above, are more stringent than these requirements, the latter shall apply.

C. The Contractor shall submit shop drawings to the Engineer of Record. Shop Drawings shall be approved by the Engineer of Record prior to installation.

1.05 DELIVERY AND STORAGE

A. Deliver and store material in protected area. Stack to prevent warpage. Replace damaged or defective items at no additional cost to the MD-WASD.

B. Protect while transporting, storing, installing, and until work is completed.

PART 2 - PRODUCTS

2.01 LOUVERS:

A. Both type of louvers shall be of aluminum construction, stationary, drainable, type, with drain gutters in each blade and down spouts in jambs and mullions.

B. Frames and louver blades shall be extruded aluminum, AA 6063-T5, with 1/8 (.125)-inch minimum thickness frames and .081-inch minimum thickness blades anodized after all cutting and drilling operations have been completed. Blades shall have interlocking front and back edges.

C. Intake louvers shall be furnished with a 2-inch by 4-inch by 1/4-inch aluminum angle, minimum, at head, sill and jambs, on the interior for mounting to structure. Exhaust louvers shall be furnished at head and jam with a 3X3X3/16-inch Type 304 stainless steel continuous angle combined with 2X2X4X1/4-inch clip angles. At the sill they shall be furnished with a 2X2X1/4-inch Type 304 stainless steel continuous angle. Install threaded Type 304 stainless steel fasteners at spacings and in sizes shown on the manufacturer's shop drawings.

D. Aluminum angles shall be anodized after all cutting and drilling operations are complete. Furnish Type 304 stainless steel anchor bolts, nuts and lock washers for installation to structure. Anchor bolts shall not be less than 5/16-inch diameter.

E. Intake louvers shall be furnished with an exterior-mounted protective screen and exhaust louvers with an interior mounted protective screen, 3/4-inch square mesh, .051-inch thick aluminum, mounted in a standard removable frame, which shall be secured to the louver frame with Type 304 stainless steel sheet metal screws. Screen and screen frames shall be anodized separately before installation on the louver frame.

F. Screws, Rivets and Clips: Type 304 Stainless steel. Finish to be clear anodized complying with Aluminum Association AA-C22A41, 215R1, following chemical etching and pretreatment. Minimum thickness 0.7 mils, 60 minute anodizing process.

G. Intake louver units shall be United Enertech Model DCFL-D-6 or approve equal. Exhaust louver units shall be Ruskin model ELF6375DXD louver with box frame.

PART 3 - EXECUTION

All units are to be installed in conformance with the manufacturer's instructions. Manufacturer's instructions shall provide unit performance conforming with the requirements for Miami-Dade County acceptance.

END OF SECTION