Part 1 General

1.01 REFERENCES

.1 American Society for Testing and Materials International (ASTM).

.1 ASTM D1400-00. Standard Test Method for Nondestructive Measurement of Dry Film Thickness of Nonconductive Coatings Applied to a Nonferrous Metal Base.

1.02 SUBMITTALS

.1 Provide Submittals as specified in Section 01 33 00 - Submittal Procedures.

.2 Submit Manufacturer’s Product Data. Include material descriptions, component details, construction details, finishes and accessories. Include manufacturer's specification sheet.

.3 Submit Shop Drawings. Show layout, location and extent of louvres. Include plans, sections, details. Indicate accessories. Indicate dimensions of framed openings. Indicate required installation clearances. Indicate profiles, sizes and description of components, base material, surface finish, hardware, description of rough-in-framing. Include details for anchorage to adjacent construction. Indicate perimeter frame detail and screening.

.4 Submit installation details and recommendations for substrate preparation. Indicate cutouts required in other work.

.5 Submit duplicate 300 x 300 mm samples in finish and colour specified.

.6 Provide data for incorporation into manual specified in Section 01 78 00 - Closeout Submittals. Submit cleaning and maintenance instructions. Include methods for maintaining products and precautions against cleaning materials and methods detrimental to finishes.

1.03 DELIVERY STORAGE AND HANDLING

.1 Deliver materials in Manufacturer’s original, unopened, undamaged packaging. Protect components in accordance with manufacturer’s recommendations.

1.04 WASTE MANAGEMENT AND DISPOSAL

.1 Separate and recycle waste materials in accordance with Waste Management And Disposal Plan.

.1 Remove from site and dispose of all packaging materials at appropriate recycling facilities.

.2 Collect and separate for disposal paper, plastic, polystyrene and corrugated cardboard packaging material in appropriate on-site bins for recycling.

.3 Divert unused wood from landfill to recycling facility.

.4 Fold up metal banding, flatten and place in designated area for recycling.

Part 2 Products

2.01 LOUVRES

.1 Stationary, stormproof louvres. Sizes as indicated in the drawings. Fabricated from extruded aluminum components. Louvers licensed to bear the AMCA seal. 152 mm deep.

.2 Acceptable Materials: Series 2620/2625 stormproof louvre by Ventex.

.1 Performance characteristics as follows:

.1 Complete louvre assembly to have 50.4 % free area.

.2 Water penetration: beginning point of water penetration: at 0.01 ounce per square foot of free area: 705 feet per minute.

.2 Blades: 2.06 mm thick extruded aluminum 6063-T5 alloy. Blade angle: 45 degrees. Blade centres: 184 mm.

.3 Frame: 2.03 mm thick extruded aluminum 6063-T5 alloy. Provide channel frame or flange frame to suit specific locations.

.4 Screens:

.1 Insect screens: 0.3 mm diameter aluminum wire. 18 x 14 mesh with 60 % free area, secured to aluminum frame.

.2 Birdscreens: 12 mm x 12 mm intercrimped aluminum wire cloth secured to 2.2 mm thick extruded aluminum frame mitered at corners and secured with corner locks.

.5 Accessories:

.1 Gaskets: manufacturer’s standard vinyl.

.2 Provide extended sills as detailed.

.3 Fasteners: stainless steel.

2.02 FABRICATION

.1 Verify field measurement before shop fabrication.

.2 Shop fabricate units to maximum extent possible in sizes as indicated. Provide single unit for each location. Do not exceed manufacturer's maximum size recommendation.

.3 Miter corner joints in frames with hairline joints or provide prefabricated corner units without joints.

.4 Construct louvres from aluminum extrusions to sizes and shapes indicated. Arrange blades and frames as indicated.

.5 Fabricate with continuous line construction using hidden mullions to provide an uninterrupted appearance.

.6 Install concealed vertical stiffeners spaced to meet required loads.

.7 Attach bird and insect screen to inside face of louvre.

2.03 FINISH

.1 Aluminum Components. Finishing system for aluminum items fabricated from shapes and plates. After completion of fabrication processes, apply a two coat, spray applied, thermosetting, PVDF resin technology coating system meeting the performance requirements of AAMA 2605.

.1 Standard of Acceptable: based on PPG, Duranar XL coating.

.2 Dry film thickness: to ASTM D1400. 0.20 mil primer and 0.75 mil topcoat.

.3 Colour: colour will be selected by Consultant from full range of available colours.

.4 Surface: smooth.

.5 Application: comply with coating manufacturer's written instructions for cleaning, conversion coating, application and baking finish.

.1 Clean, degrease and neutralize aluminum components with phosphate or chromate treatment.

.2 Spray apply primer coat and finish coat and cure to smooth, hard finish.

.3 Site finishing is limited to touch up of surfaces damaged as a result of installation.

Part 3 Execution

3.01 PREPARATION

.1 Prepare the openings as recommended by the manufacturer to obtain tolerances for plumbness, squareness and level.

.2 Examine substrates and conditions where louvres will be installed. Do not proceed with installation until unsatisfactory conditions are corrected. Ensure openings are clean, dry and within acceptable tolerances.

3.02 INSTALLATION

.1 Comply with manufacturer's installation instructions and recommendations. Coordinate installation with adjacent work to ensure proper clearances.

.2 Co-ordinate installation with installation of air and vapour barrier membranes, insulation and cladding system.

.3 Install and secure louvre rigidly in place.

3.03 CLEANING AND PROTECTION

.1 Clean surfaces upon completing installation to remove dust, dirt, adhesives, and other foreign materials according to manufacturer's written instructions

.2 Refer to manufacturer's cleaning and maintenance instructions.

.3 Protect installed product and finish surfaces from damage during ongoing construction operations.

END OF SECTION