SECTION 083213

SLIDING ALUMINUM-FRAMED GLASS DOORS

1. GENERAL
   * + 1. DESCRIPTION OF WORK
          1. Work Included: Provide labor, materials and equipment necessary to complete the work of this Section including the following.

Exterior sliding aluminum-framed laminated impact glass doors. (Coastal Storm Door)

Exterior sliding aluminum-framed triple-pane glass doors. (Coastal Storm Door)

Exterior sliding aluminum-framed tempered dual-pane glass doors. (Coastal Storm Door)

* + - * 1. Related Work: Coordinate Work of this Section with the following Sections as applicable:

Section 033000 - Cast-In-Place Concrete.

Section 054000 - Cold-Formed Metal Framing.

Section 061000 - Rough Carpentry.

Section 076000 - Sheet Metal Flashing and Trim.

Section 079200 - Joint Sealants.

* + - 1. SUBMITTALS
         1. Product Data: Include construction details, material descriptions, fabrication methods, dimensions of individual components and profiles, hardware, finishes, and operating instructions.
         2. Samples: Representative sample of actual metal finishes, hardware and glazing.
         3. Shop Drawings: Submit detailed drawings including dimensions, tolerances, details of construction and relationship with adjacent construction. Include documentation that assembly meets specified performance requirements.
         4. Product Test Reports: Manufacturer's product test data.
         5. Maintenance Data:

Aluminum Coatings -Exposed surfaces should be cleaned with mild detergent soap and water. Any chips and scratches must be repaired immediately and not left e43xposed to the elements.

Tracks and Bearings -Remove surface contaminants by wiping visible track surfaces with a damp soft cloth and a mild detergent, and then wipe dry with a clean cloth. Silicone spray should be used to lubricate all moving parts on a monthly basis. Always keep the bottom track free from debris.

Frequency – Cleaning procedures need to be carried out as often as necessary to prevent deterioration in the installed environment. General environments – every 6 months; Marine, industrial or corrosive environments – every 2 months.

* + - 1. PERFORMANCE REQUIREMENTS
         1. Structural Performance: Provide assemblies that meet loads indicated on the structural drawings and by authorities having jurisdiction without permanent deformation.
         2. Approvals: Florida Building Code Approved (FL42251, FL42297, FL42298, FL42307),
         3. Manufacturer's Performance Data: Units shall comply with manufacturer's published data for performance grade, solar heat gain coefficient, condensation-resistance factor, air infiltration, thermal movements and windborne-debris impact resistance.
      2. QUALITY ASSURANCE
         1. Manufacturing Location: United States.
         2. Manufacturer: Minimum of ten years manufacturing similar products.
         3. Installer: Minimum of five projects of similar size, type and complexity. Workers employed on this Project shall be competent in techniques required by manufacturer for installation indicated. Installer should watch all installation videos provided by manufacturer.
         4. Delivery: Deliver materials in manufacturer’s original packaging with identification labels intact.
      3. DELIVERY, STORAGE, AND HANDLING
         1. Delivery: Deliver materials in manufacturer’s original packaging with identification labels intact. Inspect materials upon receipt to confirm materials are complete, in good condition and meet project requirements.
         2. Storage and Handling: Store products in manufacturer’s unopened packaging until installation. Store upright in well-ventilated area with no direct sunlight, in a clean and dry location. Protect units against weather and damage.
      4. WARRANTY
         1. Warranty: Provide manufacturer's standard limited warranty against defects in manufacturing:

Frames: 10 years.

Insulated Glass Unit (“IGU” ): 10 years from manufacture date. An IGU defect manifests as a significant visual obstruction resulting from film, fog or moisture collection on the interior glass surfaces caused by failure of the hermetic seal.

Hardware: Five years from manufacture date. Hardware includes all magnet systems, wheel systems, panel interlocking systems, hinge systems, door handles, cylinders, dead bolt systems and associated parts.

Frame and Hardware Finishes: 10 years from the manufacture date for powder coat, PVC, and laminated finishes; 3 years for anodized finishes; 3 years for any product installed within 2 miles of the ocean or other harsh environment. A finish defect manifests as substantial cracking, chipping, peeling or other loss of adhesion of the finish material.

Screens: Five years from manufacture date if screen is installed with a Panoramic Door System.

1. PRODUCTS
   * + 1. CONCEALED PANEL FASTENERS
          1. Manufacturer: Panoramic Doors LLC, 15050 Frye Road, Fort Worth, TX 76155, tel 817-952-3500, info@panoramicdoors.com.

Series: Coastal Storm Door, sliding aluminum-framed laminated impact glass doors.

Operation: Outswing, left jamb.

Operation: Outswing, right jamb.

Operation: Inswing, left jamb.

Operation: Inswing, right jamb.

Glazing: Laminated impact glass as selected.

Thermal Performance: U-Factor 0.34, SHGC 0.16. FBC FL42307.1

Series: Coastal Strom Door, sliding aluminum-framed triple-pane glass doors.

Operation: Outswing, left jamb.

Operation: Outswing, right jamb.

Operation: Inswing, left jamb

Operation: Inswing, right jamb.

Glazing: Tempered triple-pane glass as selected.

Thermal Performance: U-Factor 0.25-0.31, SHGC, 0.16-0.17, FBC FL42307.2

Construction:

Thermally broken aluminum frame, aluminum Alloy 6063 -T6.

Slide pivot and stack design, hinge less operation.

Interlocking tongue-n-groove seals.

Overlapping T-sash

Master swing door.

Concealed 6-point multi-point locking system.

Steel rods in frame.

Fiberglass reinforcement in frame.

Glazing:

IGU Configuration: Manufacturer's standard – laminated impact glass

IGU Configuration: Custom

IGU Construction: Argon filled.

IGU Construction: Breather tubes.

Glass Tint: Clear.

Glass Tint: Custom.

Grid: SDL, simulated divided lites, exterior grid flush off the sash.

Grid: GBG, grids between glass, interior grid system between glass panels.

Grid: Not required.

Screens:

Type: Screen not required.

Type: Single pleated design (up to 16 feet).

Type: Double pleated design (up to 32 feet, opens in center)/

Screen Frame Color: As selected from manufacturer's options.

Screen Mesh: Black.

Screen Track: Match system bottom track color.

Frame Finish:

Exterior Frame Color: Selected from manufacturer's standard colors.

Exterior Frame Color: Selected from manufacturer's architectural colors.

Exterior Frame Color: Selected from RAL Color Chart.

Exterior Frame Color: Powder coat, color as selected.

Interior Frame Color: Same as exterior frame.

Interior Frame Color: As selected.

Interior Wood: Selected from manufacturer's powder coat options.

Bottom Track Finish: Clear anodized.

Bottom Track Finish: Black anodized.

Hardware:

Hardware Placement: Standard.

Finger Pull Location: Standard.

Handles: Color as selected manufacturer's standard options.

Keyless Entry Handles: Smart Lock, color as selected.

Keyed Alike: Yes.

Keyed Alike: No.

1. EXECUTION
   * + 1. EXAMINATION
          1. Examine existing conditions to determine that they are suitable for installation. Verify jamb and header position and structural integrity. Proceed with installation only when unsatisfactory conditions have been corrected.
       2. INSTALLATION
          1. Install units in accordance with manufacturer's instructions, approved submittals, and in proper relationship to adjacent construction including the following:

Ensure bottom track is 100% level using laser level.

Clean substrates of projections and substances detrimental to application.

Separate dissimilar metals using nonconductive tape or paint.

Provide anchors and shims as required.

Set sill members in bed of sealant.

Coordinate with installation of flashings and accessories.

* + - 1. ADJUSTING AND CLEANING
         1. Adjust frames and hardware for proper operation until satisfactory results are obtained.
         2. Clean using glass cleaner and hot, soapy water or other materials acceptable to manufacturer.

END OF SECTION