Marvin Modern MultiSlide Door

NOTES TO SPECIFIER: Select product options per 01 62 00

1. **GENERAL**
   1. SECTION INCLUDES:
      1. High-Density Fiberglass Multi-Slide Door complete with frame, panels, glazing and operating hardware.
   2. RELATED SECTIONS
      1. 01 33 00: Submittal Procedures: Shop Drawings, Product Data and Samples
      2. 01 33 26: Source Quality Control Reporting
      3. 01 62 00: Product Options
      4. 01 65 00: Product Delivery Requirements
      5. 01 66 00: Storage and Handling Requirements
      6. 01 71 00: Examination and Preparation
      7. 01 73 19: Installation
      8. 01 74 23: Final Cleaning
      9. 01 76 00: Protecting Installed Construction
      10. 07 92 00: Joint Sealants
   3. REFERENCES
      1. ASTM International (ASTM):
         1. C1036: Standard Specification for Flat Glass
         2. C1048: Standard Specification for Heat-Strengthened and Fully Tempered Flat Glass
         3. C1376: Standard Specification for Pyrolytic and Vacuum Deposition Coatings on Flat Glass
         4. E1105: Standard Test Method for Field Determination of Water Penetration of Installed Exterior Windows, Skylights, Doors, and Curtain Walls, by Uniform or Cyclic Static Air Pressure Difference
         5. E1300: Standard Practice for Determining Load Resistance of Glass in Buildings
         6. E2190: Standard Specification for Insulating Glass Unit Performance and Evaluation
         7. E283: Standard Test Method for Determining Rate of Air Leakage Through Exterior Windows, Curtain Walls, and Doors Under Specified Pressure Differences Across the Specimen
         8. E330: Standard Test Method for Structural Performance of Exterior Windows, Doors, Skylights and Curtain Walls by Uniform Static Air Pressure Difference
         9. E547: Standard Test Method for Water Penetration of Exterior Windows, Skylights, Doors, and Curtain Walls by Cyclic Static Air Pressure Difference
      2. American Architectural Manufacturer’s Association/Window and Door Manufacturer’s Association/Canadian Standards Association (AAMA/WDMA/CSA):
         1. 101/I.S.2/A440: North American Fenestration Standard (NAFS)/Specification for Windows, Doors and Skylights
      3. Window and Door Manufacturer’s Association (WDMA):
         1. 101/I.S.2 WDMA Hallmark Certification Program
      4. Insulating Glass Manufacturer’s Association/Insulating Glass Certification Council (IGMA/IGCC)
      5. Architectural Aluminum Manufacturer’s Association (AAMA):
         1. 2605: Voluntary specification, performance requirements and test procedures for superior performing organic coatings on aluminum extrusions and panels
         2. 2603: Voluntary specification, performance requirements and test procedures for pigmented organic coatings on aluminum extrusions and panels.
         3. 502: Air and Water Leakage Resistance testing of Installed Windows and Doors
         4. 611: Voluntary Specification for Anodized Architecturally Finished Aluminum
         5. 625: Voluntary Specification, Performance Requirements and Test Procedures for Superior Performance Organic Coatings on Fiber Reinforced Thermoset Profiles
      6. National Fenestration Rating Council (NFRC):
         1. 101: Procedure for Determining Fenestration Product Thermal Properties
         2. 200: Procedure for Determining Solar Heat Gain Coefficients at Normal Incidence
   4. SUBMITTALS
      1. Shop Drawings: Submit shop drawings under provision of CSI MasterFormat Section 01 33 00.
   5. Product Data: Submit product data for certified options under provision of CSI MasterFormat Section 01 33 00.
      1. Samples:
         1. Submit corner section under provision of CSI MasterFormat Section 01 33 00.
         2. Specified performance and design requirements under provisions of CSI MasterFormat Section 01 33 00.
   6. QUALITY ASSURANCE
      1. Requirements: Consult local code for International Building Code (IBC) and International Residential Code (IRC) adoption year and pertinent revisions
      2. Performance Grade as certified by AAMA/WDMA/CSA 101/I.S.2/A400
         1. Bi-Parting Units:
            1. LC-PG35-SD: Panel widths over 5’-0” (1524 mm) up to 6’-0” (1829 mm)

[Bi-Parting Stacked with Performance sill, up to 10 panels]

Maximum frame size of 58’-4 ½” (17793 mm) by 10’-0” (3048 mm), tested to 1.57 psf Air, 6 psf Water, +/- 35 psf Structural, with tempered glass

[Bi-Parting Stacked with High Performance sill, up to 10 panels]

Maximum frame size of 58’-4 ½” (17793 mm) by 10’-1 3/4” (3092 mm), tested to 1.57 psf Air, 7.5 psf Water, +/- 35 psf Structural, with tempered glass

[Bi-Parting Pocket with Performance sill, up to 10 panels]

Maximum frame size of 71’-0” (21641 mm) by 10’-0” (3048 mm), tested to 1.57 psf Air, 6 psf Water, +/- 35 psf Structural, with tempered glass

[Bi-Parting Pocket with High Performance sill, up to 10 panels]

Maximum frame size of 71’-0” (21641 mm) by 10’-1 ¾” (3092 mm), tested to 1.57 psf Air, 7.5 psf Water, +/- 35 psf Structural, with tempered glass

* + - * 1. LC-PG40-SD: Panels widths up to 5’-0” (1524 mm)

[OX-O / O-XO with Performance sill]

Maximum frame size of 18’- 0 5/8” (5502 mm) by 10’-0” (3048 mm), tested to 1.57 psf Air, 6 psf Water, +/- 40 psf Structural, with tempered glass

[OX-XOO / OOX-XO with Performance sill]

Maximum frame size of 29’-10 11/16” (9111 mm) by 10’-0” (3048 mm), tested to 1.57 psf Air, 6 psf Water, +/- 40 psf Structural, with tempered glass

[Bi-Parting Stacked with Performance sill, up to 10 panels]

Maximum frame size of 48’-4 ½” (14745 mm) by 10’-0” (3048 mm), tested to 1.57 psf Air, 6 psf Water, +/- 40 psf Structural, with tempered glass

[Bi-Parting Stacked with High Performance sill, up to 10 panels]

Maximum frame size of 48’-4 ½” (14745 mm) by 10’-1 ¾” (3092 mm), tested to 1.57 psf Air, 7.5 psf Water, +/- 40 psf Structural, with tempered glass

[Bi-Parting Pocket with Performance sill, up to 10 panels]

Maximum frame size of 59’-0” (17983 mm) by 10-0” (3048 mm), tested to 1.57 psf Air, 6 psf Water, +/- 40 psf Structural, with tempered glass

[Bi-Parting Pocket with High Performance sill, up to 10 panels]

Maximum frame size of 59’-0” (17983 mm) by 10’-1 3/4” (3092 mm), tested to 1.57 psf Air, 7.5 psf Water, +/- 40 psf Structural, with tempered

* + - 1. Uni-Directional Units
         1. LC-PG40-SD:

[Uni-Directional Pocket with Performance sill, up to 6 panels]

Maximum frame size of 41’-3 15/16” (12597 mm) by 10’-0” (3048 mm), tested to 1.57 psf Air, 6 psf Water, +/- 40 psf Structural, with tempered glass

[OOX / XOO, OOOX / XOOO with Performance sill]

Maximum frame size of 24’-1 9/16” (7355 mm) by 10’-0” (3048 mm), tested to 1.57 psf Air, 6 psf Water, +/- 40 psf Structural, with tempered glass

* + - * 1. LC-PG45-SD:

[Uni-Directional Stacked with Performance sill, up to 6 panels]

Maximum frame size of 42’-0 3/16” (10673 mm) by 10’-0” (3048 mm), tested to 1.57 psf Air, 6 psf Water, +/- 45 psf Structural, with tempered glass

[Uni-Directional Stacked with High Performance sill, up to 6 panels]

Maximum frame size of 35’-0 3/16” (10673 mm) by 10’-1 3/4” (3092 mm), tested to 1.57 psf Air, 8.25 psf Water, +/- 45 psf Structural, with tempered glass

[Uni-Directional Pocket with High Performance sill, up to 6 panels]

Maximum frame size of 41’-3 15/16” (12597 mm) by 10’-1 3/4" (3092 mm), tested to 1.57 psf Air, 8.25 psf Water, +/-45 psf Structural, with tempered glass

* + - 1. Center-Stacked Units
         1. LC-PG40-SD:

[XOX with Performance sill]

Maximum frame size of 15’-7 7/8” (4772 mm) by 10’-0” (3048 mm), tested to 1.57 psf Air, 6 psf Water, +/- 40 psf Structural, with tempered glass

[XOX with High Performance sill]

Maximum frame size of 15’-7 7/8” (4772 mm) by 10’-1 3/4” (3092 mm), tested to 1.57 psf Air, 7.5 psf Water, +/- 40 psf Structural, with tempered glass

[XOOX with Performance sill]

Maximum frame size of 23’-9 3/4” (7258 mm) by 10’-0” (3048 mm), tested to 1.57 psf Air, 6 psf Water, +/- 40 psf Structural, with tempered glass

* + 1. NFRC Certified U-Value:
       1. Gateway tested frame size of 6’-7” (2007 mm) by 6’-7” (2007 mm) NOTE TO SPECIFIER: Refer to the Certified Performance Directory at [www.NFRC.org](http://www.nfrc.org/) for U-Values of various glass types
    2. Forced Entry Resistance: Grade 10
    3. Break-away Force: 18 to 30 lbs
    4. Operating Force: 13 to 16 lbs
  1. DELIVERY, STORAGE, AND HANDLING
     1. Comply delivery, storage and handling per Section 01 65 00
     2. Deliver in original packaging and protect from weather
     3. Store window units in an upright position in a clean and dry storage area above ground to protect from weather under provision of Section 01 66 00
  2. PROJECT CONDITIONS
     1. Maintain environmental conditions (temperature, humidity, and ventilation) within the limits recommended by the manufacture for optimum results. Do not install products under environmental conditions outside of manufacture’s recommended limits
  3. WARRANTY

# Complete and current warranty information is available at [www.marvin.com/warranty](http://www.marvin.com/warranty) (effective 10/29/2018). The following summary is subject to the terms, condition, limitations and exclusions set forth in the Marvin Windows and Door Limited Warranty and Products in Coastal Environments Limited Warranty Supplement:

* + 1. Glass Components:
       1. Glass warranties apply to factory-installed glass or Marvin supplied glass installed by Marvin-authorized service personnel. Standard insulating glass with stainless steel spacers is warranted against seal failure caused by manufacturing defects and resulting in visible obstruction through the glass for twenty (20) years in sizes up to sixty (60) square feet, and for ten (10) years in sizes sixty (60) square feet and larger. Non-tempered glass is warranted against stress cracks caused by manufacturing defects for ten (10) years. All other glass and glass features are provided with the same warranties, limitations, and exclusions Marvin receives from its supplier; contact Marvin for further details
    2. Exterior Finish:
       1. Marvin’s standard exterior composite cladding finish is warranted against manufacturing defects per AAMA 625, Section 5, for ten (10) years
    3. Interior Finish:
       1. Factory applied interior coated aluminum finish is warranted to be free from finish defects for a period of ten (10) years. Anodized interior aluminum finish is warranted to be free from manufacturing defects for five (5) years
    4. Non-Glass Components:
       1. Hardware and other non-glass components are warranted to be free from manufacturing defects for ten (10) years. Stainless steel hardware and hardware with PVD finishes installed in coastal environments are warranted to be free from manufacturing defects that result in abnormal deterioration of the finish for a period of ten (10) years. Other hardware finishes are not warranted in coastal environments. Electric operators and other motorized accessories are provided with the same warranties, limitations, and exclusions Marvin receives from its supplier; contact Marvin for further details

1. **PRODUCTS**
   1. MANUFACTURERS
      1. Acceptable Manufacturer: Marvin Windows and Doors, Fargo, ND, [www.marvin.com](http://www.marvin.com/)
   2. FABRICATION
      1. Frame:
         1. Exterior: High-Density Fiberglass
         2. Interior: Extruded Aluminum
         3. Thickness: 1-1/2” (38 mm)
         4. Depth: 3-1/64” (77 mm) per track
      2. Sill:
         1. High-Density Fiberglass and Extruded Aluminum in [Bronze] [Ebony]
         2. Track components interlock and include drainage routes with weeps to the exterior
            1. Exterior weeps must remain un-obstructed
         3. Panning/s required and supplied by others
            1. Flush sill with overall height of 3/4" (19 mm)
            2. Performance sill with overall height of 1-13/16” (46 mm)
            3. High Performance sill with exterior sill liner and overall height of 1-53/64” (21 mm) to be recessed. Sill is ADA capable when installed level with the top of the sill and interior and exterior transition surfaces

Composite sloped wedge interlock and span the sill length

Composite counter shims to level sill surface and are placed 10” (254 mm) on center along the sill length

* + 1. Panel:
       1. Exterior: High-Density Fiberglass
       2. Interior: Extruded Aluminum
       3. Thickness: 2-1/4” (57 mm)
       4. Top rail height: 3-9/32” (84 mm) with visible face of 2-7/8” (73 mm)
       5. Bottom rail height: 3-25/32” (96 mm) with visible face of 2-7/8” (73 mm)
       6. Unidirectional Locking Stile width: 3-9/32” (84 mm) with visible face of 2-7/8” (73 mm) when closed
       7. Bi-parting Meeting Stiles width: Total of 6-21/32” (169mm)
       8. Interlock Stile Width: 2 7/8” (73mm)
       9. Panel bumpers: Bracket color to match interior aluminum with black rubber stopper
    2. Glazing:

NOTE TO SPECIFIER

Glazing General:

* Specifier: Select the applicable glazing type and configuration, refer to the Architectural Detail Manual or Marvin Representative for additional information.

Glazing Pane Thickness:

* Glass types are dependent thickness and availability. Consult ADM or OMS for availability
* Triple-Pane IG pane thicknesses are limited to 4.7mm and below
* Low ELR are limited to pane thicknesses of 5.7mm and below
* Low ERS with other Low E coatings are limited to pane thicknesses of 5.7mm and below
* Obscure (Pattern 62) with Low E are limited to pane thicknesses of 4.7mm and below
* Frost with Low E are limited to pane thicknesses of 5.7 and 3.9 mm
* Tints are limited to pane thicknesses of 5.7mm
* Capillary tubes are required in air spaces for high elevation

Glazing Spacer:

* Stainless Steel spacers on all shapes with angles 45 degrees and larger
* Aluminum spacers on all shapes with angles less than 45 degrees
  + - 1. [Dual-Pane] [Triple-Pane] insulating tempered one lite glass with preserve film on interior and exterior panes
         1. Insulating glass per ASTM E2190
         2. Glass thickness shall be sized to rated design pressure per ASTM E-1300
         3. Safety glazing per CPSC 16 CFR 1201, SGCC, & CAN/CGSB
      2. Configurations:
         1. Dual-Pane insulating glass

[15/16” (24mm)] [1-1/4” (32mm)] Overall thickness

Surface Treatment:

Low E Coating: [Low E1] [Low E2] [Low E3] [Low ELR] [Low E2/ERS] [Low E3/ERS] [Obscure/Low E1] [Low E2/Obscure] [Low E3/Obscure] [Frost/E1] [E2/Frost] [E3/Frost] [Gray Tint] [Bronze Tint] [Gray Tint/Low E1] [Gray Tint/Low E2] [Bronze Tint/Low E1] [Bronze Bronze Tint/Low E2]

Gas Fill:

[Air with capillary tubes] [Argon]

* + - * 1. Triple-Pane insulating glass:

1-1/4” (32mm) Overall thickness

Surface Treatment:

[Low E1/E1] [Low E2/E1] [Low E3/E1]

[Low E3/E1/ERS][Low E2/E1/ERS]

Gas Fill:

[Air with capillary tubes] [Argon]

* + - 1. Perimeter spacer material:
         1. [Black painted Stainless Steel] [Black painted Aluminum]
         2. Seal: Black silicone sealant
      2. Simulated Frame Divider:
         1. Optional 2-7/8” (73 mm) bar used to divide one lite glass in one direction [vertical] [horizontal]
         2. Dual glass spacers in stainless steel painted black in all air spaces
    1. Finish:
       1. Interior Frame and Panels
          1. Painted extruded aluminum covers with 70% PVDF coating applied that meets AAMA 2605 requirements in [Gunmetal].
          2. Painted extruded aluminum covers with acrylic coating applied that meets AAMA 2603 requirements in [Bronze] [Ebony] [Stone White].
          3. Anodize extruded aluminum covers meeting Class 1, AAMA 611 requirements in Clear Anodize
       2. Exterior Covers
          1. Painted extruded aluminum covers with 70% PVDF coating applied that meets AAMA 2605 requirements in [Gunmetal] [Bronze] [Ebony] [Silver] [Stone White]

NOTE TO SPECIFIER: Split finishes available between interior and exterior, color of frame and panels must be same color to interior or exterior

* + - 1. Exterior Frame and Panels:
         1. High-Density Fiberglass coated with a PVDF Fluoropolymer FEVE (fluoroethylene vinyl ether) resin with ceramic pigments designed to meet AAMA 625 requirements in [Bronze] [Ebony] [Gunmetal] [Silver] [Stone White]
      2. [Split finishes optional between Interior and Exterior]
    1. Configuration:
       1. [Uni-Directional Stacked] [Uni-Directional Pocket]
       2. [Bi-Parting Stacked] [Bi-Parting Pocket]
       3. [Center-Stacked]
    2. Hardware:
       1. Multipoint lock: Two locking point engage and disengage with keeper
       2. Handle Set: Flush mounted handles with recessed pull and thumb latch engage and disengage panel locking points as [Non-Keyed] [Keyed] [Keyed alike]

NOTE TO SPECIFIER:

* Split finishes available between interior and exterior
* Handle positioned lower on units with a frame height size less than 62-3/64” (1576 mm)
  + - * 1. Interior Finish: [Matte Black] [Matte Bronze] [Satin Nickel] [Silver] [Stone White]
        2. Exterior Finish: [Matte Black] [Matte Bronze] [Satin Nickel] [Silver] [Stone White]
        3. [Split finishes optional between Interior and Exterior]
      1. Finger Pull: Pocket panel only. Recessed at panel edge for to access pocketed configuration panel, finish is Satin Chrome
      2. In-Active lock: Bi-Parting configurations only Lever lock engages top and bottom bolts on in-active panel edge, lever color is black
      3. Roller wheels: Two quad rollers per panel capable to 792 lbs. Encased in stainless steel housing, with composite wheels and stainless steel bearings. End adjustable up to 7/32” (6 mm)
    1. Weather Strip:
       1. Color: Black
    2. Interlock:
       1. Color: Black
    3. End adjustment covers:
       1. Rectangular aluminum covers at bottom edge of panel conceals roller adjustment access
       2. Finish matches interior aluminum
    4. Screen (Optional):
       1. Interior Sliding Retractable Screen (Optional)
       2. Configurations
          1. Uni-Directional opens [left to right] [right to left]
          2. Bi-Parting with two screens at each jamb as [left handed] [right handed]
       3. Frame:
          1. Extruded Aluminum
          2. Finish:

Painted extruded aluminum in [Bronze] [Ebony] [Gunmetal] [Stone White]

Anodize extruded aluminum in Clear Anodize

* + - 1. Sill:
         1. Extruded aluminum with black rubber treads
         2. Height: 1-23/32” (24 mm)

NOTE TO SPECIFIER: Screen sill height to be recessed with Flush and High Performance Sill options)

* + - * 1. Finish: [Ebony] [Bronze]
      1. Handle Pull:
         1. Extruded Aluminum stile with integrated handle and magnetic closer
         2. Finish: [Black] [White]
      2. Mesh:
         1. Charcoal vinyl-coated polyester
    1. Lock Status Sensor (Optional)
       1. Lock Status Sensor
          1. Unit is factory-prepared for an integrated lock status sensor system. Sensor and actuator (magnet) are mounted within the edges of the operating panel
          2. Lock Status Sensor is [wireless] [wired]

Wireless requires a secondary transmitter for operation, supplied by others

* + - * 1. Sensor route locations are at the locking stile with the actuator located on the internal hardware
        2. Lock Status Sensor includes:

Sensor: Reed

Actuator: Neodymium

* + 1. Sliding Door Automatic Control (Optional)
       1. Sliding Door Automatic Control:
          1. Door unit is factory-prepared with an integrated motor system. Motor mount outside of the rough opening and requires a 12” (305 mm) minimum width x 24” (610 mm) minimum height wall cavity, starting at the door head jamb.
          2. Access panel is required to service motor and controller. Refer to Site Preparation guide.
          3. Not available with Center Stacked
       2. Sliding Door Automatic Control Option Includes:
          1. Motor: 24V DC

Peak – smaller motor that will handle small and medium doors

Everest – higher torque motor for large doors

Motor will automatically be selected based on door size and weight

* + - * 1. Controller: 110V AC
        2. Home Automation Port. Options include:

Home Automation Systems

Voice Assistants

Marvin Home App

* + - * 1. Interior Wall Switch: Wired 9-in-1 touch screen
        2. Exterior Secure Keypad

Colors: White or Black

* + - * 1. Exterior Motion Sensor: Wired

Color: Black

* + - * 1. Motor Alignment Jig/Mounting Bracket
        2. Component cables
      1. Components (Optional)
         1. Interior Wired Motion Sensor
  1. Sizes and Configurations:
     1. Uni-Directional units
        1. Stacked configuration:
           1. Maximum Panel Size

6’-0 3/8” (1839 mm) by 11’-10 1/8” (3610 mm), up to 6 panels

Maximum Frame Size: 35’-0 3/16” (10673 mm) by 12’-0” (3658 mm)

8'-0 3/8" (2448 mm) by 9'-10 3/8" (3001 mm), applicable to OX, XO, OXX, XXO, OOX, XOO, OOOX, XOOO configurations only

Maximum Frame Size: 23’-8 13/16” (7234 mm) by 10’-0” (3048 mm)

* + - 1. Pocket configuration:
         1. Maximum Panel Size:

6’-0 3/8” (1839 mm) by 11’-10 1/8” (3610 mm), up to 6 panels

Maximum Frame Size: 41'-3 15/16" (12596 mm) by 12’-0” (3658 mm)

8'-0 3/8" (2448 mm) by 9'-10 1/8" (3001 mm), applicable to PX, XP, PXX, XXP configurations only

Maximum Frame Size: 24'-3 7/16" (7403 mm) by 10’-0” (3048 mm)

* + 1. Bi-Parting units
       1. Stacked configurations from 2 to 10 total panels:
          1. Maximum Panel Size:

6'-1 3/8" (1839 mm) by 11'-10 1/8" (3610 mm)

Maximum Frame Size: 58'-4 1/2" (17793 mm) by 12’-0” (3658 mm)

8'-0 3/8" (2448 mm) by 9'-10 1/8" (3001 mm), applicable to OX-XO, OXX-XXO, OX-O, O-XO, OX-XOO, OOX-XO configurations only

Maximum Frame Size: 47'-4"” (14427 mm) by 10’-0” (3048 mm)

* + - 1. Pocket configurations from 2 to 10 total panels:
         1. Maximum Panel Size:

6'-0 3/8" (1839 mm) by 11'-10 1/8" (3610 mm)

Maximum Frame Size: 71’-0” (21641 mm) by 12’-0” (3658 mm)

8'-2 3/8"” (2448 mm) by 9'-10 1/8" (3001 mm), applicable to PX-XP, PXX-XXP configurations only

Maximum Frame Size: 48'-5 1/4" (14764 mm) by 10’-0” (3048 mm)

* + 1. Center-Stacked units
       1. Center-Stacked configuration with 3 total panels (XOX):
          1. Maximum Panel Size:

Active panel

2’-11 11/16” (906 mm) by 11'-10 1/8" (3610 mm)

Maximum Frame Size: 139 13/32 by 12’-0” (3658 mm)

3’-11 13/16” (1214 mm) by 9'-10 1/8" (3001 mm)

Maximum Frame Size: 187 55/64 by 10’-0” (3048 mm)

Stationary panel

6’-0” (1829 mm) by 11'-10 1/8" (3610 mm)

Maximum Frame Size: 139 13/32 by 12’-0” (3658 mm)

8’-0 1/4” (2444 mm) by 9'-10 1/8" (3001 mm)

Maximum Frame Size: 187 55/64 by 10’-0” (3048 mm)

* + - 1. Center-Stacked configuration with 4 total panels (XOOX):
         1. Maximum Panel Size:

6’-0 3/8” (1839 mm) by 11’-10 1/8” (3610 mm)

Maximum Frame Size: 23’-9 3/4” (7258 mm) by 12’-0” (3658 mm)

8'-0 3/8" (2448 mm) by 9'-10 3/8" (3001 mm), applicable to XOOX configuration only

Maximum Frame Size: 31’-9 3/4” (9696 mm) by 10’-0” (3048 mm)

1. **EXECUTION**
   1. EXAMINATION AND PREPARATION
      1. Verification of Condition:
         1. Before installation, verify openings are plumb, square and of proper dimensions as required in Section 01 71 00
         2. Report frame defects or unsuitable conditions to the General contractor before proceeding
      2. Acceptance of Condition:
         1. Beginning of installation confirms acceptance of existing conditions
   2. INSTALLATION
      1. Assemble and install window/door unit(s) per manufacturer’s instruction and reviewed shop drawing
      2. Installation to comply with Section 01 73 19
      3. Install sealant and related backing materials at perimeter of unit or assembly in accordance with Section 07 92 00. Do not use expansive foam sealant
      4. Install accessory items as required
   3. FIELD QUALITY CONTROL
      1. Unless otherwise specified, air leakage resistance tests shall be conducted at a uniform static pressure of 75 Pa (~1.57 psf). The maximum allowable rate of air leakage shall not exceed 2.3 L/sm2 (~0.45 cfm/ft2)
      2. Unless otherwise specified, water penetration resistance testing shall be conducted per AAMA 502 and ASTM E1105 at 2/3 of the fenestration products design pressure (DP) rating using “Procedure B” – cyclic static air pressure difference. Water penetration shall be defined in accordance with the test method(s) applied
   4. CLEANING AND PROTECTION
      1. Protect installed construction as required in Section 01 76 00
      2. Remove visible labels and adhesive residue per manufacturer’s instruction
      3. Leave windows and glass in a clean condition, final cleaning as required in Section 01 74 23
      4. Protecting windows from damage by chemicals, solvents, paint or other construction operations that may cause damage

END OF SECTION