

Next Dimension Signature Series

SLIDING PATIO DOOR

SPECIFICATIONS

PART 1 - GENERAL

1.01 SECTION INCLUDES

- A. Factory assembled vinyl sliding patio doors [including sidelites], glass and glazing, operable hardware, weatherstripping, and insect screen.
- B. Anchorages, attachments, and accessories.

1.02 RELATED SECTIONS

- A. Section 01340 - Shop Drawings, Product Data, and Samples.
- B. Section 01610 - Delivery, Storage, and Handling.
- C. Section 01710 - Final Cleaning.
- D. Section 07200 - Batt and Blanket Insulation.
- E. Section 07920 - Sealants and Caulking.
- F. Section 08800 - Glass and Glazing.

1.03 REFERENCES

- A. AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM):
 - 1. ASTM E-283 - Rate of Air Leakage through Exterior Windows, Curtain Walls, and Doors.
 - 2. ASTM E-547 - Water Penetration of Exterior Windows, Curtain Walls, and Doors by Cyclic Static Air Pressure Difference.
 - 3. ASTM E-330 - Structural Performance of Exterior Windows, Curtain Walls, and Doors under Uniform Static Air Pressure Difference.
- B. AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI).
- C. AMERICAN ARCHITECTURAL MANUFACTURERS ASSOCIATION (AAMA)
 - 1. ANSI/AAMA 101-93 - Voluntary Specifications for Aluminum and Poly (Vinyl Chloride) (PVC) Prime Windows and Glass Doors.

1.04 PERFORMANCE CRITERIA

- A. Sliding glass door units shall requirements in accordance with ANSI/AAMA/NWWDA 101/I.S-2-97.
- B. Air leakage shall not exceed 0.30 cfm per lineal ft. of crack when tested in accordance with ASTM E-283 at 1.57 psf.
- C. No water penetration shall be allowed when tested in accordance with ASTM E-547.
- D. Door units shall withstand positive and negative windloads without damage. The units shall be tested in accordance with ASTM E-330.

1.05 SUBMITTALS

- A. Shop drawings shall be submitted in accordance with Section 01340.
- B. Product data in the form of general catalogs, test lab reports, product performance, and warranty information shall be submitted in accordance with Section 01340.
- C. Samples showing glazing, quality of construction and finish shall be submitted in accordance with Section 01340.

1.06 DELIVERY, STORAGE, AND HANDLING

- A. In compliance with Section 01610, door units shall be delivered undamaged, with protective packaging. Complete installation and finishing instructions shall be included.
- B. Store units in a clean, dry place, off the ground in a 90 degree upright position. Do not store units under direct sunlight or in temperatures exceeding 140 degrees F.

PART 2 - PRODUCTS

2.01 MANUFACTURER

- A. Next Dimension Signature Series Vinyl Sliding Patio Door units [including sidelites] as manufactured by Windsor Windows & Doors.

2.02 MATERIALS

- A. Frame: All frames are 4 1/2" in width and are manufactured using high performance *uPVC* extrusion material. Each frame corner is fusion welded, increasing strength and maximizing weather-proof performance. All frames include a fixed interlock meeting rail that is end milled to the contour of the head and sill, and is weather-stripped with a wool pile seal. An extruded rigid pre-punched nail fin surrounds the perimeter of the frame and is fusion welded during the

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(Materials Continued)

manufacturing process. The nail fin is set back 1 3/8" from the outside face of the unit leaving an interior jamb of 3 1/16". Factory or field applied veneer-wrapped jamb extensions are available up to 7 1/4". For added threshold protection an aluminum mill finish threshold extrusion is placed on the operating panel side of the door. Each frame contains a positive pressure drainage system that works in conjunction with the sliding panel to remove any moisture that may accumulate from heavy rain or condensation. 6-8 & 6-10 tall doors are reversible prior to installation.

- B. Door Panel: All panels are manufactured using high performance *uPVC* extrusion material. Each door panel corner is fusion welded, increasing strength and maximizing weather-proof performance. A wool pile seal is placed on the inside face perimeter of the door panel further enhancing weather-proof performance. Each door panel contains an interior drainage system that removes any moisture that may accumulate from heavy rain or condensation. Operating panel is aluminum reinforced for additional strength. Center stile includes an extruded interlock that engages tightly with the fixed interlock. Side to side travel is made smooth through the use of two tandem roller assemblies with steel ball bearings located in the bottom of the door panel. The operating door panel is easily removed by sliding the panel to its most open position and lifting up and outward. Anti-lift blocks keep the operating door panel from being removed at any other point in its travel.
- C. Finish: Color options include white exterior with white interior and clay exterior with clay interior. Color is encapsulated within 100% of all extrusions and is warranted for life not to blister, pit, corrode, flake, or peel.
- D. Glazing: All door and sidelite units include 1" double pane LoE 366 insulated tempered glass as standard, with glazing bead applied to the exterior side of the panel and adhesive tape toward the interior. Transom units do not have tempered glass as standard. A wide array of other glass combinations is offered including clear, tinted, and obscure. Both glass units are the same size creating an equal line of sight.
- E. Hardware: All units include an adjustable latch on the operating panel and thumb latch on screens. Optional D-shaped handle with keyed lock available. Handles are not included in the price of the door. They must be ordered separately and will be shipped loose. Hardware is color matched to the unit. Keyed lock is optional on the standard handle set and is included with the "D" shaped handle.
- F. Screens: Shall be a fiberglass BetterVue™ screen set in painted aluminum frame. UltraVue™ Screen option is available. All screen frames are color matched to the unit. Screen assembly is mounted on the outside of the operating panel and rolls on adjustable steel rollers. Our insect screens are intended to allow air and light in and keep insects out. The screen is not intended to stop children, adults or animals from falling out an open door.
- G. Grilles: Rectangular aluminum inner grilles, available as 3/4" profiled, are color matched to the unit and are installed within the air space.
- H. Mull: Each multiple wide unit includes factory applied vertical mull.

PART 3 - EXECUTION

3.01 EXAMINATION

- A. Verify that there is no visible damage to the unit before installation.

3.02 INSTALLATION

- A. Verify the rough opening is of the recommended size and that it is plumb, level, and square.
- B. Install the door unit in accordance with the manufacturer's recommendations.
- C. Install sealants, backing material, and insulation around opening perimeter in accordance with Section 07900 and Section 07920.

3.03 ADJUSTMENT AND CLEANING

- A. Operate unit and verify that all hardware operates freely. Make any adjustments necessary.
- B. Cover the door unit to avoid damage due to spray paint, plaster, and other construction operations.
- C. Remove all visible labels and instructions.
- D. Final cleaning of glass in accordance of Section 01710.