

New Next Dimension Series

STANDARD SLIDING 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 ARCHITECTURAL MANUFACTURERS ASSOCIATION (AAMA)
 - 1. AAMA/WDMA/CSA 101/I.S.2/A440-05 Standard/Specification for windows, doors, and unit skylights.
- B. 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.
 - 4. ASTM E 1300- Standard Practice for Determining Load Resistance of Glass in Buildings
- C. AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI).

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.

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PART 2 - PRODUCTS

2.01 MANUFACTURER

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

2.02 MATERIALS

- A. Frame: All frames are 4 5/8" in width and are manufactured using high performance *uPVC* extrusion material. Each frame corner is fusion welded, increasing strength and maximizing weather-proof performance. An extruded rigid pre-punched nail fin surrounds the perimeter of the frame and is fusion welded during the manufacturing process. The nail fin is set back 1 5/16" from the outside face of the unit leaving an interior jamb of 3 5/16". 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.
- 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. 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 and is sealed with pile weatherstripping. 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: Standard color options include white and clay (interior and exterior). Black laminated exteriors available with white or painted black interior. Bronze painted exteriors available with white interior.
- D. Glazing: All units include 7/8" double pane LoE 366 insulated tempered glass as standard. Glass is set with snap-in glazing beads on the exterior and a 2-part structural sealant on 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.
- E. Hardware: All units include an adjustable latch on the operating panel and thumb latch on screens. Two handle options available (Traditional or Contemporary) with keyed lock option 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.
- F. Screens: Screen construction is charcoal color fiberglass mesh set into a heavy duty extruded aluminum frame. BetterVue™ Sreen 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. Windsorlite (WDL) simulates true divided lite, but is created by adhesively fixing the interior and exterior bars to the surfaces of the insulated glass. WDL bar shape is a 7/8" Putty profile, and is available with or without interior bar.
- H. Mull: Each multiple wide unit includes factory applied vertical mull.

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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.