

Next Dimension Signature Series

RADIUS

SPECIFICATIONS

PART 1 - GENERAL

1.01 SECTION INCLUDES

- A. Factory assembled vinyl direct set windows and vinyl radius windows, glass and glazing, and weather sealants.
- 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. Window units shall meet requirements in accordance with ANSI/AAMA/NWWDA 101/I.S-2-97.
- B. Air leakage shall not exceed 0.15 cfm per lineal ft. of crack when tested in accordance with ASTM E-283 at 6.24 psf.
- C. No water penetration shall be allowed when tested in accordance with ASTM E-547.
- D. Window 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, window 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 Direct Set and Vinyl Radius window units as manufactured by Windsor Windows & Doors.

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2.02 MATERIALS

- A. Frame: All frames are 3" 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 3/8" from the outside face of the unit leaving an interior jamb of 1 9/16". Factory or field applied veneer-wrapped jamb extensions are available up to 7 1/4". An accessory groove surrounds the perimeter of the interior and exterior to facilitate the attachment of mull strips or drywall and jamb extension receivers. Each frame contains a drainage system that removes any moisture that may accumulate within the glazing area from heavy rain or condensation. Integral J-Channel option is available.
- B. Sash: This unit is direct glazed and has no sash.
- 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 units include 3/4" double pane LoE 366 insulated glass as standard, with glazing bead applied to the exterior side of the sash and adhesive tape toward the interior. A wide array of other glass combinations is offered including clear, tinted, tempered, and obscure. Glass of 40.1 to 48.0 square feet will be tempered.
- E. Hardware: Direct glazed units contain no hardware.
- F. Screens: Direct glazed units contain no screens.
- G. Grilles: Rectangular aluminum inner grilles, available as 3/4" profiled, are color matched to the unit and are installed within the air space. Minimum diameter of 8" on all radius bars.
- H. Trim: (Extra when specified) One piece head jamb trim is available in clear pine or oak. WM-324, WM-346, WM-356, and WM-366 are available. White Cellular PVC trim available in WM-356 profile only.

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 window 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. Cover the window unit to avoid damage due to spray paint, plaster, and other construction operations.
- B. Remove all visible labels and instructions.
- C. Final cleaning of glass in accordance of Section 01710.