

Next Dimension Impact Series

RADIUS

SPECIFICATIONS

PART 1 - GENERAL

1.01 SECTION INCLUDES

- A. Factory assembled vinyl radius windows, 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-283 - Rate of Air Leakage Through Exterior Windows, Curtain Walls, and Doors.
 - 5. ASTM E-547 - Water Penetration of Exterior Windows, Curtain Walls, and Doors by Cyclic Static Air Pressure Difference.
 - 6. ASTM E-330 - Structural Performance of Exterior Windows, Curtain Walls, and Doors under Uniform Static Air Pressure Difference.
 - 7. ASTM E 1300- Standard Practice for Determining Load Resistance of Glass in Buildings
- C. AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI).

1.04 PERFORMANCE CRITERIA

- A. Radius units shall meet requirements in accordance with AAMA/WDMA/CSA 101/I.S.2/A440-05.
- B. Air leakage shall not exceed 0.30 cfm per sq.ft 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. Window units shall withstand positive and negative wind loads without damage. The units shall be tested in accordance with ASTM E-330.
- E. Window units shall withstand impact from windborne debris and cyclic pressure loading. The units shall be tested in accordance with ASTM E-1886/E-1996.

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, 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.

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PART 2 - PRODUCTS

2.01 MANUFACTURER

- A. New Next Dimension Series Radius windows as manufactured by Windsor Windows & Doors.

2.02 MATERIALS

- A. Frame: All frames are manufactured using high performance *uPVC* extrusion material. Each frame is 3 5/16" wide and is fusion welded at the corners, 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 1/4" from the outside face of the unit leaving an interior jamb width of 2 1/16". 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 positive pressure drainage system to remove any moisture that may accumulate from heavy rain or condensation.
- B. Sash: This unit is direct glazed and has no sash.
- 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 or painted bronze interior.
- D. Glazing: All units include 1" laminated double pane LoE 366 insulated glass as standard. Glass is set with snap-in glazing beads on the exterior and a 2-part structural sealant on the interior. A wide array of other glass combinations is offered including clear, tinted, tempered, and obscure.
- E. Hardware: Fixed units contain no hardware.
- F. Screens: Fixed 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. Windsorlite (WDL) simulates true divided lite, but is created by adhesively fixing the interior and exterior bars to the surfaces of the insulated glass. Two WDL bar shapes are available: 5/8" and 7/8" wide putty.
- H. Mulls: Each multiple wide unit includes factory applied vertical mulls and drip cap. Depending on the size, configuration, and structural requirements, all mulled units are reinforced with solid aluminum.

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.