

Next Dimension Impact Series

CASEMENT

SPECIFICATIONS

PART 1 - GENERAL

1.01 SECTION INCLUDES

- A. Factory assembled vinyl casement windows and vinyl awning windows [including fixed units], 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.
 - 4. ASTM E-1886 - Performance of Exterior Windows, Curtain Walls, Doors, and Impact Protective Systems Impacted by Missile(s) and Exposed to Cyclic Pressure Differentials.
 - 5. ASTM E-1996 - Performance of Exterior Windows, Curtain Walls, Doors, and Impact Protective Systems Impacted by Windborne Debris in Hurricanes.
 - 6. ASTM E-2190 - Insulating Glass Unit Performance and Evaluation.
- B. AMERICAN ARCHITECTURAL MANUFACTURERS ASSOCIATION (AAMA):
 - 1. AAMA/WDMA/CSA 101/I.S.2/A440-11 North American Fenestration Standard/Specification for Windows, Doors and Skylights.
- C. WINDOW & DOOR MANUFACTURERS ASSOCIATION (WDMA):
 - 1. WDMA I.S-4 – 07 Industry Standard for Water-Repellent Preservative Treatment for Millwork
- D. AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI)
- E. NATIONAL FENESTRATION RATING COUNCIL (NFRC)

1.04 PERFORMANCE CRITERIA

- A. Casement / Awning window units shall meet requirements in accordance with AAMA/WDMA/CSA 101/I.S.2/A440-11.
- 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. Window units shall withstand positive and negative windloads 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, quality of construction, and finish shall be submitted in accordance with Section 01340.

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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. New Next Dimension Series Vinyl Casement and Vinyl Awning window units [including fixed units] as manufactured by Windsor Windows & Doors.

2.02 MATERIALS

- A. Frame: All frames are 3 5/16" 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 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.
- B. Sash: All sash are manufactured using high performance *uPVC* extrusion material. Each sash corner is fusion welded, increasing strength and maximizing weather-proof performance. Each sash contains three full perimeter weatherseals. The two interior seals are closed cell foam bulb weatherstrips. A pile weatherstrip seal is located on the outside perimeter of the sash further enhancing weather-proof performance. Each sash contains an interior drainage system that removes any moisture that may accumulate from heavy rain or condensation.
- 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: All operating units contain a hardened steel worm gear driven dual arm operator, which opens 90 degrees with easy detach arm. All units contain a multi-point sequential locking system that operates from a single lock handle. Hardware components have an electrocoated polymer corrosion resistant coating. All hardware is color matched to the unit and is attached with stainless steel screws. Two hardware styles are available: Traditional and Contemporary.
- 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. Screens are easily removed from the inside of the unit by releasing perimeter plungers. 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 window.
- 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.

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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 window unit in accordance with the manufacturer's recommendations.
- C. Install sealant, 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 window 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.