

# Pinnacle Impact Series

## CLAD RADIUS – DIRECT GLAZE

## SPECIFICATIONS

### PART 1 - GENERAL

#### 1.01 SECTION INCLUDES

- A. Factory assembled aluminum clad wood radius windows, glass and glazing, and [grilles].
- 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 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. Radius 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 sq.ft. of sash 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 meet impact requirements in accordance with AAMA 506-2000 / ASTM E-1886-05 / ASTM E-1996-06.

#### 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 and with protective packaging. Complete installation and finishing instructions shall be included.
- B. Store units in a clean, dry place off the ground in an upright position.

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### PART 2 - PRODUCTS

#### 2.01 MANUFACTURER

- A. Pinnacle Series Radius window units as manufactured by Windsor Windows & Doors.

#### 2.02 MATERIALS

- A. Frame: Shall be select softwoods treated with water repellent preservative in accordance with NWWDA I.S.-4-81. Jamb shall be 3/4" finger joint with clear inner edge on straight jambs and laminated veneer with clear inner edge on curved jambs. Exposed exterior portion of the frame shall be extruded aluminum. Standard set up jamb width shall be 4 9/16" (4 1/8" basic jamb with 7/16" extender). Other extenders available to match finished wall thickness. Installation clips and screws will be provided with units.
- B. Finish: All aluminum exterior surfaces shall be covered with a factory applied, polyester powder-coat paint in 22 standard and 20 feature colors. Anodized colors are also available.
- C. Glazing: Shall be 1" Sea Storm™ Laminated LoE<sup>2</sup> insulating glass as standard, glazed with a full perimeter of structural silicone, and interior wood stops. Cardinal's Preserve™ option is standard for Sea Storm™ Impact IG. It is a removable, factory-applied protective film adhered to both interior and exterior surfaces of the glass.
- D. Grilles: (Extra when specified) Colonial grilles shall be select pine with moulded edges, fastened to sash with press pins. Stick grilles are available in 7/8" or 1 1/4" widths. White, cinnamon, bronze, tan, ivory, hunter green, or black aluminum inner grilles (in air space) are also available in 13/16" flat or 3/4" profiled. Two-toned inner grilles are available with a white interior, and a bronze, green, tan, ivory or black exterior. Windsorlite (WDL) simulates true divided lite, but is created by adhesively fixing the wood interior and extruded aluminum exterior bars to the surfaces of the insulated glass; when ordered Interior Primed, the interior WDL bars will be cellular PVC. WDL is available in 5/8", 7/8" and 1-1/4" widths. See Divided Lite Options for profile details. Special pattern inner grille and wood grille options available. Minimum Inner Grille diameter is 8". Minimum Inner Bar diameter is 5" for 1 1/4" WDL and 4" for 7/8" and 5/8" WDL. Exterior bars are available in 22 standard and 20 feature colors.
- E. Trim: (Extra when specified) One piece head jamb trim is available in pine, oak, alder, fir or white cellular PVC. WM-324, WM-346, WM-356, WM-366 and WM-444 are available in pine, oak, alder or fir. WM-356 available in white cellular PVC.
- F. Frame Restrictions: (for single units)
- |   |                          |
|---|--------------------------|
| Maximum frame dimension                               | 54" x 108" or 108" x 54" |
| Maximum frame sq.ft. (width x height)                 | 40 sq. ft.               |
| Minimum leg length                                    | 6"                       |
| Minimum radius  | 12"                      |
| Aspect Ratio (frame width vs. frame height)           | no greater than 7:1      |
| Any one unit cannot have glass smaller than 8" x 12". |                          |

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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.
- D. For installation details reference Florida drawing number 1438.

#### 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 01