

Pinnacle 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. Patio Door 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.

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.

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.

Pinnacle Series

CLAD RADIUS – DIRECT GLAZE

SPECIFICATIONS

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.

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 sealed at corners with injected silicone. 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. Natural Alder and Fir interior options available.
- 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. Anodized colors are also available.
- C. Glazing: Shall be 3/4" double pane LoE 366 insulating glass as standard, silicone glazed with cushioned wood stops. A wide array of other glass options is offered including clear, tinted, tempered, and obscure. Cardinal's Preserve™ option is available on all LoE 366 glass. It is a removable factory applied protective film adhered to the interior and exterior 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, 3/4" profiled or 1" profiled. Two-toned inner grilles (**3/4" profile only**) 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 7/8" and 1 1/4" Standard, 5/8" Putty, and 7/8" Putty exterior with Standard interior. Special pattern inner grille and wood grille options available. Minimum Inner Grille/Inner Bar diameter is 8". 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 height	96" (HR only); 120"
Maximum frame width	96" (HR only); 120"
Maximum frame sq.ft. (width x height)	60 sq. ft.
Minimum leg length	6"
Minimum radius	12"
Aspect Ratio (frame width vs. frame height)	no greater than 7:1

Both width and height may not exceed 84" on the same unit due to glass restrictions.
For units with obscure glass, the largest available size is 58" x 82".
Any one unit cannot have glass smaller than 8" x 12".

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SPECIFICATIONS

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. 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