

Pinnacle Series

PRIMED RADIUS – IN-SASH

SPECIFICATIONS

PART 1 - GENERAL

1.01 SECTION INCLUDES

- A. Factory assembled 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. NATIONAL WOOD WINDOW AND DOOR ASSOCIATION (NWWDA):
 - 1. AAMA / NWWDA 101-I.S.2 - 97 Voluntary Specifications for Aluminum, Vinyl (PVC) and Wood Windows and Glass Doors.
 - 2. NWWDA I.S-4-81 - Industry Standard for Water-Repellent Preservative Treatment for Millwork
- C. AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI).

1.04 PERFORMANCE CRITERIA

- A. Radius units shall meet requirements in accordance with AAMA / NWWDA 101-I.S.2-97.
- 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.

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. Double Hung profile jamb shall be finger joint material with clear inner edge on straight jambs and laminated veneer with clear inner edge on curved jambs. Casement profile jamb, stops, and sash shall be casement profile on straight jambs and stacked wood blocks and shaped to match straight profiled on curved jambs, and sash. Radius interior stop shall be laminated veneer. Frame thicknesses are available to match the product line that the unit is being mulled above. Double Hung profile exterior stops shall be cellular PVC material. Standard set up jamb width shall be 4 9/16". Other extenders are available to match finished wall thickness. Setup units shall include cellular PVC sill nosing and brick mould for a complete no rot exterior.
- Casement Profile (1-1/4"): Available on in-sash units only.
Double Hung Profile (3/4"): Available on in-sash or direct glaze units.
- B. Sash: Shall be one coat Latex primer applied to exterior surfaces.
- C. Finish: Shall be one coat Latex primer applied to exterior surfaces of sash and frame.
- D. Glazing: Shall be double pane LoE 366 insulating glass as standard, sealant glazed to the exterior. Glass is held in place with interior wood stops. A wide array of other glass options is offered including clear, tinted, tempered and obscure.
- 3/4" insulated glass on all casement profile.
 - 9/16" insulated glass on double hung in sash profile units up to 18 sq. ft. frame maximum
 - 3/4" insulated glass on double hung in sash profile units up to 36 sq. ft. frame maximum.
- Cardinal's Preserve™ option is available on al LoE 366 glass. It is a removable factory-applied protective film adhered to the interior and exterior sides of the glass.
- E. Grilles: (Extra when specified.) Colonial grilles shall be select pine with moulded edges fastened with press pins. Stick grilles are available in two standard profiles available, 7/8" and 1 1/4" widths. Simulated divided lite (SDL) simulates true divided lite, but is created by adhesively fixing the wood interior and cellular PVC 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. Both are available with or without inner bar between the glass. 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. Minimum Inner Grille/Inner Bar diameter is 8".
- F. 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.
- G. Frame Restrictions: (for single in-sash units)
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|---|---------------------|
| Maximum frame height | 84" (HR only); 106" |
| Maximum frame width | 84" (HR only); 106" |
| Maximum frame sq.ft. (width x height) | 30 sq. ft. |
| Minimum leg length | 9" |
| Minimum radius | 15" |
| 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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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