

Pinnacle Series

CLAD MULTI-SLIDE PATIO DOOR

SPECIFICATIONS

PART 1 - GENERAL

1.01 SECTION INCLUDES

- A. Factory assembled aluminum clad wood sliding patio doors, glass and glazing, operable hardware, weatherstripping 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.

1.05 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, door 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 Clad Multi-Slide Patio Door units as manufactured by Windsor Windows & Doors.

2.02 MATERIALS

- A. Frame: Shall be thermally-broken dark bronze anodized aluminum frame. Interior portions of head and side jambs shall be clear pine. Exterior portion of head and side jambs shall be color-matched extruded aluminum sealed at corners with gaskets. Color matched painted jamb covers applied to sides and head. Sill shall be thermally broken dark-bronze anodized aluminum with sloped exterior tread and interior water dam. Drainage system with exterior weep covers incorporated into sill. Panels shall operate on aluminum track system. Overall width of frame varies depending on handing and number of panels. Frames available in both stacking and pocketing options. Handing options include 1 to 8 panels available in one-directional or bi-parting configurations. Frames over 24' shall be spliced. Extruded aluminum nail fin is utilized for frame installation. Natural Alder and Fir interior options are available.
- B. Door Panels: Shall be select softwoods and engineered laminated cores, treated with water repellent preservative. Stiles and rails are 2 3/4" wide, and panel thickness is 1 3/4". Corners shall be slotted and tenoned, and securely fastened with screws. Exterior surfaces shall be clad with aluminum extrusion with corners lapped and sealed. Operating panels shall have two end-adjustable tandem ball bearing steel rollers. Foam tape is applied to the back side of glass stops. Doors are shipped knocked down for field assembly. Optional French stile panels provide a "French Door Appearance". French sliding panels are glued and doweled at corners. French panels contain Ponderosa pine veneers. Stiles are 4 9/16" wide. Top and bottom rails are select softwoods. Top rail is 5 3/16" wide. Bottom rail is 8 9/16" wide. Natural Alder or Fir interior option is available.
- C. 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.
- D. Glazing: Shall be 3/4" tempered double pane LoE 366 insulating glass as standard, glazed with double-faced tape, a full perimeter bead of silicone, and interior wood stops. A wide array of other glass options is offered including clear, tinted, and obscure. Cardinal's Preserve™ option is available on most glass options. It is a removable, factory-applied protective film adhered to both interior and exterior surfaces of the glass.
- E. Weatherstripping: Shall include pile weatherstrip seal around entire perimeter of each panel. Pile weatherstrip also used along the length of each interlock.
- F. Hardware: Shall include 2-point adjustable locking system with keeper on lock jamb. Factory-applied flush handle with keyed lock is standard and is available in multiple finishes. Aluminum followers included for attachment at the top of each panel excluding lead panel. Stainless steel pull included on edge of lead panel.
- G. Screens: Not available as a factory option
- H. Grilles: (Extra when specified) Colonial grilles shall be select pine with moulded edges, fastened to sash with press pins. Perimeter 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 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. All are available with or without inner bar between the glass. Exterior bars are available in 22 standard and 20 feature colors.

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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 01