Pinnacle Impact Series

CLAD SLIDING 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, insect screen, 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.
E. Window units shall meet impact requirements in accordance with AAMA 506-11 / ASTM E-1886/ ASTM 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.

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 Clad Sliding Patio Door 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. Exposed exterior portion of head and side jambs shall be extruded aluminum sealed at corners with butyl gaskets. Sill and setting block shall be pultruded fiberglass and panels shall operate on stainless steel track cover. Grey sill standard; bronze sill optional. Inactive jamb parting stops shall be clear pine. Active jamb cover shall be extruded aluminum. Threshold shall be solid oak. Overall width of frame shall be 4 9/16". Jamb extenders are available to match other finished wall thickness. Integral extruded aluminum nail fin is utilized for frame installation.

B. Door Panels: Shall be select softwoods and engineered laminated cores, treated with water repellent preservative. Exterior surfaces shall be clad with aluminum extrusion with corners lapped and sealed. Operating panels shall have two end-adjustable tandem ball bearing stainless steel rollers. Foam tape is applied to the back side of glass stops. Doors are available as factory set-up for either OX or XO handing. 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.

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 ¾" Sea Storm™ Laminated LoE^2 insulating glass as standard, glazed with double-faced tape plus 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.

E. Weatherstripping: Shall include flexible weatherable PVC and foam seal at the head and jambs with a pile fin-seal weatherstripping at the interlocks. Pile weatherstrip also used at the bottom of operating panel and at the ends of the interlock.

F. Hardware: Shall include 2-point stainless steel locking system with adjustable keeper on operating panel; thumb latch and handle on screens. Multiple finishes, keyed locks, and security foot bolts are optional. Handle sets are ordered and shipped separately.

G. Screens: (Extra when specified) Shall be a fiberglass BetterVue™ screen set in painted aluminum frame. UltraVue™ Screen option is available. Screen shall be mounted outside of door panels and shall roll on end-adjustable stainless steel rollers. Screens available in 22 standard and 20 feature colors. 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 the door.

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 or 3/4" profiled. Two-toned inner grilles **(¾" 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.

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