

# Pinnacle Impact Select Series

## CLAD PUSH-OUT AWNING

## SPECIFICATIONS

### PART 1 - GENERAL

#### 1.01 SECTION INCLUDES

- A. Factory assembled aluminum clad wood awning windows [including fixed units], 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.
  4. ASTM E-1886 - Performance of Exterior Windows, Curtain Walls, Doors, and Impact Protective Systems Impacted by Missile(s) and Exposed to Cyclic Pressure Differentials
  5. ASTM E-1996 – Performance of Exterior Windows, Curtain Walls, Doors, and Impact Protective Systems Impacted by Windborne Debris in Hurricanes
- B. WINDOW & DOOR MANUFACTURERS ASSOCIATION (WDMA):
  1. WDMA I.S-4 – 07 Industry Standard for Water-Repellent Preservative Treatment for Millwork
  2. AAMA/WDMA/CSA 101/I.S.2/A440 North American Fenestration Standard/Specification for Windows, Doors and Skylights.
- C. AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI)
- D. NATIONAL FENESTRATION RATING COUNCIL (NFRC)
- E. FLORIDA BUILDING CODE (FBC)
  1. Test Application Standard (TAS) 201 – Impact Test Procedures
  2. Test Application Standard (TAS) 202 – Criteria for Testing Impact & Non-Impact Resistant Building Envelope Components using Uniform Static Air Pressure
  3. Test Application Standard (TAS) 203 – Criteria for Testing Products Subject to Cyclic Wind Pressure Loading

#### 1.04 PERFORMANCE CRITERIA

- A. Awning 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. Windows units shall meet Impact requirements of ASTM E 1886, ASTM E 1996 and TAS 201,202, 203

#### 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.

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### **1.06 DELIVERY, STORAGE, AND HANDLING**

- A. In compliance with Section 01610, window units shall be delivered undamaged, with protective packaging and fitted with sash shipping blocks. 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 Impact Series Aluminum Clad Wood Awning window units [including fixed units] as manufactured by Windsor Windows & Doors.

#### 2.02 MATERIALS

- A. Frame: Shall be select pine treated with water repellent preservative, assembled with hardware installed. Exposed exterior portion shall be extruded aluminum sealed at corners with injected silicone and nylon corner keys. Lock and hinge side stops are face nailed. Jamb thickness shall be 1-1/4". Standard set up jamb width shall be 4-9/16" (4-1/8" basic jamb with 7/16" extender). Other jamb extension available to match finished wall thickness. Rigid aluminum nail fin and color matched drip cap option is available.
- B. Sash: Wood interior shall be select pine treated with water repellent preservative. Corners shall be mortise and tenon construction that is fastened with screws. Exterior surfaces shall consist of aluminum extrusion with lapped corners sealed with silicone and foam gaskets. Foam tape is applied to the back side of glass stop.
- 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 1" Sea Storm™ Laminated LoE 366 insulating glass as standard, glazed with double-faced tape plus a full perimeter bead of structural silicone, and interior wood stops. A wide array of other glass options is offered including clear, tempered and tints. Cardinal's Preserve™ option is standard. It is a removable, factory-applied protective film adhered to both interior and exterior surfaces of the glass.
- E. Weatherstripping: Shall be closed-cell foam encased in TPE film. It shall be installed as a full perimeter seal for positive protection against air and water infiltration. Additional weatherstrip is applied to the top rail and stiles for added protection against water penetration.
- F. Hardware: Awnings shall include a lever-activated multi-point locking system. Hinges are concealed and adjustable, with a built in friction arm (24" frame heights and above) to help sash stay in open position. Interior hardware finish options include satin nickel, black, white, oil-rubbed bronze, and faux bronze. Seacoat hardware is standard.
- G. Screens: (Optional) Shall be retractable type with BetterVue™ screen cloth as standard. Retractable screens will operate from the top down with a positive latch at sill. Screen head covers, side tracks, and lift rail will be finished with wood veneer on both exterior and interior sides, and available in Pine, Alder, or Fir species. 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 an open window.
- H. Grilles: (Extra when specified) White, cinnamon, bronze, tan, ivory, hunter green, or black aluminum inner grilles (in air space) are available in 3/4" profiled shape and 13/16" flat bar. Two-toned inner grilles (3/4" profiled 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 aluminum exterior to the surfaces of the insulated glass. WDL is available in 5/8, 7/8" and 1-1/4" widths in Contemporary, Putty and Ogee shapes. 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. On operating units, remove shipping blocks after unit is fully installed.
- 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 01710