Legend HBR Series

LEGEND HBR AWNING SPECIFICATIONS

PART 1 - GENERAL

1.01 SECTION INCLUDES

A. Factory assembled aluminum clad sash exterior and low maintenance vinyl wrapped wood frame exterior 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.
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. 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.

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. Legend HBR Series Awning window units [including fixed units] as manufactured by Windsor Windows & Doors.

2.02 MATERIALS

A. Frame: Head and side jambs utilize rigid thermally – forming PVC laminated softwoods treated with water repellant preservative in accordance with NWWDA I.S.-4. Sill shall be a finished no-rot composite material. Frames are assembled with hardware installed, and sealed at corners with closed cell foam gaskets. 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 extenders available to match finished wall thickness. Factory set up units will also include low maintenance cellular PVC subsill, brickmould, and outside mull covers.

B. Sash: Wood interior shall be select pine treated with water repellent preservative. Corners shall be coped and stapled. Exterior surfaces shall consist of aluminum extrusion with lapped corners held together by color-matched injected-molded corner keys. Foam tape is applied to the back side of glass stop.

C. Finish: The frame shall consist of white laminated PVC side and head jambs while the sill is finished in an acrylic latex paint. Exterior Casings and subsills are cellular PVC finished in a satin finish. All sash 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" 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, tempered, and obscure. Cardinal's Preserve™ option is available on all LoE 366 glass. It is a removable, factory-applied protective film adhered to both interior and exterior surfaces of the glass.

E. Weatherstripping: Frame weatherstrip 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. An additional leaf weatherstrip is applied to the top rail and stiles for added protection against water penetration.

F. Hardware: Awnings include a sealed hardened steel worm-gear, dual-scissors-arm operator with easy detach arm, a folding/nesting handle and heavy duty concealed adjustable hinges. Operator and hinge components have an electro-coated polymer corrosion resistant coating. The two-lever locking system is available in champagne, black, bronze, white, brass, oil-rubbed bronze, and satin nickel.

G. Screens: Shall be a fiberglass BetterVue™ screen set in painted aluminum frame. UltraVue™ Screen option is available. 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) Colonial grilles shall be select pine with moulded edges. Stick grilles are fastened to sash with press pins, while perimeter grilles use a hidden clip system. Stick grilles and 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" 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; 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 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.