

VELUX America Inc.
SPECIFICATION FOR MODEL GPL
ROOF WINDOW

SECTION 08610
WOOD WINDOWS

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Production fabricated wood roof window with exterior maintenance free cladding, manually operated with manually operated accessories, as indicated on window schedule.

1.03 QUALITY ASSURANCE

A. Wood roof window with exterior maintenance free cladding and all accessories and components required for complete and weatherproof installation shall be manufactured to the highest standards of quality and craftsmanship in accordance with VELUX Manufacturing Standards.

1.04 SYSTEM DESCRIPTION

A. Roof Window: Wood frame and sash, exterior maintenance free cladding, production fabricated flashings, glass and glazings and anchorage.

B. Configuration: Top hinged, spring assisted sash. Hinge pivots for easy cleaning of the glass from inside the room.

1.05 PERFORMANCE REQUIREMENTS

A. Limit member deflection to flexure limit of glass with full recovery of glazing materials.

B. System to accommodate, without damage to components or deterioration of seals, movement between sash and frame and perimeter framing.

C. Gasketing designed to drain water entering joints, condensation occurring in glazing channel, or migrating moisture occurring within system, to exterior by drainage network.

D. Roof Window sash designed to open a full 45 degrees to satisfy minimum requirements for emergency egress.

1.06 SUBMITTALS

- A. Manufacturer's unit dimensions, rough opening and finished framing dimensions, affected related work, and installation requirements are shown in manufacturer's installation instructions.
- B. Product Data: For Model GPL operable roof window, glazing options, accessories, and manual control options of roof window and accessories are indicated in manufacturer's printed material.

1.07 DELIVERY, HANDLING, STORAGE

- A. Deliver products in manufacturer's original containers, dry, undamaged, seals and labels intact.
- B. Store and protect products in accordance with manufacturer's recommendations.

PART 2 PRODUCTS

2.01 MANUFACTURER

- A. VELUX product Model GPL operable roof window and flashing systems as specified in this section and as manufactured by VELUX America Inc.

2.02 MATERIALS

- A. Wood: Kiln-dried laminated Nordic Pine, with clear TOPfinish temporarily treated for mold and mildew.
- B. Maintenance free exterior cladding: Roll formed [0.65 aluminum] [0.60 copper] prefinished, production engineered, and fabricated to fit exterior exposed surfaces.

2.03 COMPONENTS

- A. Weather stripping: Factory applied neoprene weather stripping throughout entire frame and sash profiled to effect weather seal.
- B. Fittings: Surface treatment with electro-galvanized, chromate passivated yellow.
- C. Type EDL Flashing is a prefabricated step flashing system designed for use with roofing materials less than 3/4" thick and for slopes of 3:12 (15 degrees) to 85 degrees.
- D. Type EDW Flashing is a prefabricated gutter flashing system designed for use with roofing material greater than 3/4" thick, or high profile material, and for

roof slopes of 3:12 (15 degrees) to 85 degrees. Sill flashing section consists of corrugated apron to allow form fit of high profile material.

2.04 GLASS AND GLAZING MATERIALS

- A. Standard 1" (25.4mm) overall dual sealed insulated glass unit with 9/16" (14mm) air space. Stainless steel spacer with desiccant, primary seal polyisobutylene, secondary seal silicone.
- B. Gasketing: Each I.G. unit dry glazed with chloroprene gasket, no sealants.
- C. Glazing

Type 73 laminated Low-E: Exterior lite 4mm (5/32") clear annealed with Low-E² coating, 14mm (9/16") air space filled with argon gas; interior lite two plies of 3mm (1/8") heat-strengthened laminated with .015" vinyl interlayer.

2.05 HARDWARE

- A. Sash: Top hinged, spring assisted. Hinge pivots, allowing for easy cleaning of the glass from inside the room.

2.06 FABRICATION

- A. Fabricate frame with slip/lock corners, glued and nailed for hairline, weather tight fit.
- B. Fabricate frame components within minimum tolerances, enabling installation and movement of sash and dynamic movement of perimeter weather stripping.
- C. Permit external drainage channels to migrate moisture to exterior. Provide internal drainage of glazing spaces to exterior through gasketing.
- D. All units factory glazed with chloroprene gasketing.

2.07 FINISHES

- A. Exterior surfaces: Exposed exterior wood surfaces to be covered with roll formed maintenance free cladding pieces. Aluminum has umber grey, Kynar 500 polyvinylidene fluoride resin finish. Copper is roll formed mill finish.
- B. Maintenance free flashing: Roll formed aluminum, umber grey, baked on polyester polyamid primer and finish coats. Copper is roll formed mill finish.
- C. Interior surface: All exposed interior wood surfaces to be provided with factory applied clear varnish TOPfinish.

- D. Sash Handle - grey

PART 3 EXECUTION

3.01 EXAMINATION

- A. Verify rough opening dimensions and proper orientation of roof window.

3.02 INSTALLATION

- A. Install roof window in accordance with manufacturer's installation instructions.
- B. Align roof window level, free of warp or twist; maintain dimensional tolerances.
- C. Attach roof window to roof sheathing with manufacturer's brackets and screws to accommodate construction tolerances and other irregularities.
- D. Provide thermal isolation when components penetrate or disrupt building insulation. Pack fibrous insulation in rough opening to maintain continuity of thermal barriers.
- E. Coordinate attachment and seal of perimeter air and vapor barrier material.
- F. Install sash.
- G. Install manufacturer's engineered perimeter flashing in accordance with manufacturer's installation instructions to achieve weather tight installation.