# DHC450 *(EC300)*

Aluminum Clad-Wood • Eclipse Premium Flat-Frame Double-Hung • Full Jamb

## PRODUCT SPECIFICATIONS

### FRAME

- Exterior parts are of kiln dried ponderosa pine, treated with a water repellant preservative to protect from rot and insects. Also available in sapele, oak and cherry.
- Head, jamb and sill wood parts are fitted to the extruded aluminum and are of kiln dried ponderosa pine, treated with a water repellant preservative to protect from rot and insects. Also available in sapele, oak and cherry.
- Head, jamb and sill wood joints are tenoned, glued and nailed.
- Frame thickness of 11⁄16″ at head and jamb.
- Standard jamb depth: 4 9⁄16″ from snap-in nail flange slot; 5 7⁄16″ overall from outside of aluminum to inside of wood.
- A thermally broken tri-plex sill system of wood, extruded aluminum and vinyl is mechanically fastened, gasket and silicone sealed to the jamb.'
- Available with optional 3⁄8″ foam wrap for air tight installation.
- A continuous sill (up to 120″) is used on mulled units.

### SASH

- Exterior surfaces are covered with .019″ thick roll-formed aluminum cladding.
- Sash parts are fitted to the extruded aluminum andare of kiln dried ponderosa pine, treated with a water repellant preservative to protect from rot and insects. Also available in sapele, oak and cherry.
- Sash joints are tenoned, glued and nailed from the interior.
- Silicone glazed from the interior for a positive water tight seal.
- Overall finish sash thickness: 1 7⁄16″ (standard). Optional 1 3⁄4 sash available.
- Sash profile widths are: top rail (2 5⁄8″ (standard); optional 1 3⁄4″ available), stiles (1 3⁄4″ (standard); optional 2 5⁄8″ available), check rails (1 1⁄2″), bottom rail (3 1⁄4″ (standard); optional 2 5⁄8″ and 4″ available.)
- Unequal sash heights can be specified.
- Top and bottom operating sashes with locking pivot shoe tilt-in and can be removed for finishing or cleaning.

### EXTERIOR FINISH

- Standard color options are: White, Bronze, Earthtone, Beige, Black and Hunter Green and meet the physical test requirements of AAMA 2603. Custom colors available.
- Optional AAMA 2605 finish available.

### INTERIOR FINISH

- Standard in unfinished natural wood in specified species (pine (standard), sapele, oak and cherry) which can be painted or stained.
- Available factory primed or prefinished white in pine (standard), sapele, oak and cherry. Contact Trimline dealer for custom color details.
- Interior features a concealed jambliner giving the appearance of a traditional wood window.

## HARDWARE

- Hardware available in these following styles: Traditional, Restoration II and Eclipse.
- Eclipse hardware - Combination locking and tilting hardware system. Tilt feature is activated via an internal tie-bar mechanism concealed within the lower meeting rail eliminating the need for surface mounted tilt latches providing a cleaner, more traditional appearance. Dual locks standard on units under 50″ wide; triple locks standard on units over 50″ wide. Sash lifts standard at bottom rail.
- Traditional and Restoration II hardware - Sash lock and keeper are surface mounted cam action style. Recessed E-Z tilt sash release latches for top and bottom sash tilting. Dual lock/ lifts standard on units over 28″ wide; triple locks standard on units over 50″ wide. Sash lifts standard at bottom rail.
- Traditional style hardware is available in these finishes: White (Painted), Beige (Painted), Oil Rubbed Bronze (Plated) and Satin Nickel (Plated).
- Restoration II style hardware is available in these finishes: White (Painted), Black (Painted), Oil Rubbed Bronze (Plated), Antique Brass (Plated) and Satin Nickel (Plated).
- Eclipse style hardware is available in these finishes: White (Painted), Beige (Painted), Black (Painted), Oil Rubbed Bronze (Plated) and Satin Nickel (Plated).
- The Ultra-Fit system includes jamb adjusters which are anchored in an aluminum channel reinforcement to provide jambliner adjustment to remove any bowing or hour-glassing.

## BALANCES

- Concealed block and tackle system for smooth and effortless operation with locking cam action pivot shoes that never needs adjusting. AAMA 902-07 tested for over 28,000 cycles without failure.
- Class V Ultra-Lift® balances for units in which the sash weighs ≥ 45 lbs.

## WEATHERSTRIPPING

- Head, meeting rails and bottom rail are weather sealed with Q-Lon® almond color compression seal foam; Fin-Seal® at the sill dam.
- Dual Fin-Seal® and Q-Lon® at the vertical styles / jambliner.

## GLASS

- Standard clear 11⁄16″ thick insulating glass, consisting of “double strength” 1⁄8″ (3 mm) annealed glass, 7⁄16″ air space using the Tremco™ EnerEDGE® warm-edge, dual-seal silicone foam spacer (dark charcoal), hermetically sealed with hot melt butyl.
- Glass also available in these thicknesses: 5⁄32″ (3.9 mm) with 3⁄8″ air space, 3⁄16″ (4.7 mm) with 5⁄16″ air space and 7⁄32″ (5.7 mm) with 1⁄4″ air space.
- Other glazing options include Cardinal® LoĒ$^2$-270 and with obscure, tempered, laminated, bronze or grey tint. Decorative glass also available. Cardinal® LoĒ$^2$-270 + LoĒ-i89 is available only in annealed and tempered.

## INSECT SCREENS

- Standard half screen of .050″ thick extruded aluminum.
- Optional full screen of .019″ thick roll-formed aluminum.
- Optional interior sliding half screen of .050″ thick extruded aluminum.(Requires 3 5⁄8″ jamb pocket.)
- Standard colors available: White, Bronze, Earthtone, Beige, Black and Hunter Green and meet the physical test requirements of AAMA 2603. Custom colors available.
- Charcoal fiberglass screen cloth (18″ × 16″ mesh) standard; optional screen mesh available in charcoal or aluminum color wire or Better View™ high transparency screening in charcoal fiberglass cloth only.

## GRILLES

- Simulated Divided Lites (SDL) of .050″ thick extruded aluminum in a classic putty glazed 5⁄8″, 7⁄8″, 1 1⁄4″ or 1 1⁄2″ muntin profile permanently applied to exterior of the insulated glass. Double faced tape is used to apply muntin to the glass which first is prepared with a saline type glass bonding and coupling agent before muntin is applied to help ensure lasting adhesion. An optional between the glass dark anodized bronze shadow bar is available for an authentic true divided lite look. Interior wood in pine (standard), sapele, oak and cherry matching the interior wood species in either permanent or removable style 5⁄8″ or 7⁄8″ wide divided lite patterns only. Removable style not available in 1 1⁄4″ and 1 1⁄2″ widths. 1 1⁄2″ simulated divided lite with spacer bar is only availble as (1) single vertical bar.
- Removable wood grilles available in 5⁄8″ or 7⁄8″ wide classic double stepped profile matching window interior wood species in pine (standard), sapele, oak and cherry in a wide array of standard or custom divided lite patterns only.
- In-glass aluminum “GBG” (Grille Between the Glass) muntins are available in 5⁄8″ flat profile or 7⁄8″ profile profile in all standard exterior cladding color finishes for dust free easy cleaning. Available in either divided lite or diamond patterns.