
KALWALL E-SERIES ARCHITECTURAL HIGH PERFORMANCE WINDOWS

I. PERFORMANCE

- A. Standard E-Series windows: **AAMA/ANSI Performance Class: PI-AW60, PO-AW70, F-AW80**
- B. Large Missile Impact E-Series windows: **DESIGN PRESSURE 80 PSF (3.83 kPa) TESTED AND CERTIFIED TO TAS 201, TAS 202, TAS 203, ASTM E1886 AND ASTM E1996**

II. SIZE Standard E-Series Max Width 5'-0" (1500mm)

- A. Standard
 - 1. Project-In: 1'-6" (460 mm) or 2'-0" (610 mm) high
 - 2. Project-Out: 1'-6" (460 mm) or 2'-0" (610 mm) high
 - 3. Fixed: 40 sq. ft. (3.787 m²) at 105 psf (5.027 kPa) wind
- B. Maximum
 - 1. Project-In: 3'-6" (1070 mm) high
 - 2. Project-Out: 4'-6" (1370 mm) high
 - 3. Fixed: 40 sq. ft. (3.787 m²) at 105 psf (5.027 kPa) wind
- C. Minimum
 - 1. Project-In: 1'-6" (410 mm) high
 - 2. Project-Out: 1'-6" (410 mm) high

SIZE Large Missile Impact E-Series Max Width 5'-0" (1500mm)

- A. Standard
 - 1. Project-Out: 1'-6" (460 mm) or 2'-0" (610 mm) high
 - 2. Fixed: 1'-6" (460 mm) or 2'-0" (610 mm) high
- B. Maximum
 - 1. Project-Out: 3'-0" (915 mm) high
 - 2. Fixed: 3'-0" (915mm) high
- C. Minimum
 - 1. Project-Out: 1'-6" (410 mm) high

III. HARDWARE

Multi-Point non-locking (Euro-groove) handles standard on all operating sash (locking handles optional). Handles are available in white, black or silver. For overhead operation of project-in windows only, pole operators can be used in conjunction with cam-lock hardware (maximum recommended pole length = 12' (3660 mm) long.) Remote operating systems can be adapted to project-in and project-out windows.

- 1. Heavy-duty stainless steel 4 bar hinges; Fully adjustable friction shoes; Standard projection = 45 degrees
- 2. Approximate projection from wall when sash is fully opened:
For 1'-6" (460 mm) high windows = 13" (330 mm); For 2'-0" (610 mm) high windows = 17" (430 mm)

IV. CONSTRUCTION

Frame and sash are constructed of tubular extruded 6063-T5 aluminum. Enhanced thermal performance and mechanical strength is achieved using polyamide thermal strut construction. All frame and sash corners are mitered and joined using heavy internal aluminum corner gussets that are mechanically anchored and epoxy sealed. All openings are double sealed using continuous EPDM bulb, foam and wedge weather stripping to insure minimum air infiltration and maximum water resistance. Snap-in aluminum glazing bead for ease of field glazing.

V. FINISHES

Windows are available in anodized or corrosion resistant painted finish, dual finish interior and exterior capability.

VI. GLAZING MATERIAL

- A. Standard E-Series windows:
Operating sash can be glazed with 1" (25 mm) double or triple glazing and 1" (25 mm) Kalwall glazing panels.
- B. Large Missile Impact E-Series windows:
 - 1. Standard: 1" (26 mm) nominal laminated insulated large missile resistant glazing. Tints and Low-E are available.
 - 2. Construction: 1/4" exterior lite – 5/16" airspace – 7/16" laminated interior lite with .090 SGP.

VII. SCREENS

- A. 18 (1.4 mm) x 16 (1.6 mm) aluminum mesh
- B. Hollow extruded frame
- C. Sliding wicket

VIII. ADA COMPLIANCE

E-Series windows, when properly installed, meet the ADA and UFAS (Uniform Federal Accessibility Standard) criteria. For example, operable windows should be installed so as to have unimpeded approach. The window takes less than 5 lbs. of force to open and close and the single window handle is a comfortable curved open loop design that can be effortlessly operated without rotation of the hand. The owner/architect should take care in window placement to assure that the operating handle is between 9" and 54" from the floor.