

STERGIS –StormGate - Impact Vinyl Casement Window

Residential and Light Commercial Applications

Architect's Specifications

General: Manufactured by Stergis Windows and Doors, Attleboro, Ma 02703 508.455.0661 www.stergis.com.

Operation: Window sash shall open out from the frame jamb by means of a roto-operator crank assembly. Sash shall pivot at the jamb on two stainless steel hinges located at the main frame head and sill. Multi-point sash locks shall be located at the jamb and shall function to both secure the opening and ensure a tight sash to jamb triple weatherstripping compression seals.

Materials: All vinyl extrusions shall be rigid 100% virgin uPVC. Main frame profiles shall have a nominal wall thickness of .075" and six tubular hollows for maximum strength, thermal efficiency, and welded corner integrity. Sash profiles shall have a nominal wall thickness of .075" and shall contain four tubular hollows. Reinforced Main Frames and Retaining clip for hardware will be employed to ensure impact testing certifications

Frame Construction: Frame provides a new construction fin or a head and sill expander for replacement applications . Overall frame depth shall be 3 1/4". Window main frame corners shall be mitered and fusion welded with a minimum melt off of 5mm for maximum strength and leak resistance. Optional J channel can be factory applied.

Sash Construction: Sash frame shall be miter cut and fusion welded with a minimum melt off of 5mm. Glazing will be secured between two co-extruded dual durometer glazing fins and a dual durometer removable snap-glazing bead. Damaged glass shall be replaceable without detaching the sash from the main frame.

Screen Construction: Screen wire shall be 18x16 mesh non-glare charcoal finished aluminum, securely held in place with corrugated vinyl screen spline. Frame shall be of hollow extruded design and shall include an exterior leg which forms a screen to frame overlap in the assembled unit to eliminate any perimeter gap once the screen is installed. Screen shall be secured in place with two spring loaded "L" clips at each screen jamb.

Available Finishes: Color shall be solid vinyl throughout in white or almond

Glazing: ¾" overall laminated glass consisting of the following: One (1) exterior piece of ⅛" annealed glass / one (1) .285" aluminum reinforced butyl spacer system (as stated by manufacturer) / one (1) interior piece of ⅛" annealed glass./ .090" Solutia laminate / one (1) interior piece of ⅛" annealed glass. Exterior glazed with an adhesive structural sealant Sikaflex-552 (as stated by the manufacturer) (refer to drawing # 142194DH_DP50). The glazing utilized an extruded vinyl snap-in glazing bead measuring .570" wide.

Weatherstripping: Weatherstripping shall be compression bulb type. One course shall be applied around the full sash perimeter and a second around the main frame perimeter to provide continuous double seal between the main frame and sash.

Hardware: All hardware is corrosion resistant. Maxim twin arm gear drive dyad operator attaches to the sash by use of a guide track and sash pinion. Sash locks shall be sequentially locking multi-point type with a single handle actuator. The sash keepers will self align and be secured into reinforced sash walls. All fasteners are stainless steel . Sash heights will incorporate an alignment and reinforcing snubber that draws the sash tight with the frame. Hardware will be color matched.

TESTING: ASTM E 1886-02 *“Standard Test Method for Performance of Exterior Windows Curtain Walls, Doors and Storm Shutters Impacted by Missile(s) and Exposed to Cyclic Pressure Differentials.”*

ASTM E 1996-02 *“Standard Specification for Performance of Exterior Windows, Curtain Walls, Doors and Storm Shutters Impacted by Windborne Debris in Hurricanes*