

STERGIS WINDGATE NEW CONSTRUCTION- Hopper Window

Architect's Specifications

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

Operation: Window shall open in from the frame top by means of a cam handle assembly. Sash shall pivot at the bottom on two stainless steel hinges located at each main frame jamb. The cam handle shall be the locking device located at the top rail sash and shall ensure tight sash to jamb weatherstripping compression.

Materials: All vinyl extrusions shall be rigid, 100% virgin uPVC. Main frame profiles shall a nominal wall thickness of .065" and shall be designed such that there are five tubular hollows for maximum strength, thermal efficiency and welded corner integrity.

Frame Construction: Frame profile shall be designed to either accept a snap-on nail fin or to be fitted with a one-piece head expander and sill angle as job conditions require. 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. The main frame jambs shall contain an extruded aluminum reinforcing bar to provide a secure anchor for the hinge screws.

Sash Construction: Frame shall be miter cut and joined with heavy duty glass filled nylon corner keys, mechanically fastened and sealed with a siliconized latex sealant.

Screen Construction: Frame shall be hollow extruded design and the wire shall be 18x16 mesh non-glare charcoal finished aluminum. There will be an overlap on the edge of screen frame. Spring clips shall be installed on both jamb sides to keep screen tight to window frame.

Available Finishes: Shall be solid vinyl throughout in white or almond. Optional woodgrain interior and custom color exterior is optional.

Glazing: Insulating glass shall have an overall thickness of 3/4" and a minimum 1/2" air space inside dimension. Standard glass shall be single strength 2.5mm and double strength 3.0 domestic type B float glass. Dura Seal Warm Edge glass spacer will be used to form a continuous hermetic seal around the insulated unit to encapsulate the air space. All glass lites will be installed via **CBA and SIGMA standards** in accordance with ASTM E773 and E774. Methods to include proper drainage, oval staggered weep system, and setting blocks with appropriate blocking.

Weatherstripping: Weatherstripping shall be two soft durometer legs applied to the perimeter of the interior face of the sash. The third piece of weatherstripping shall be one course of fin type weatherseal applied to the perimeter of the sash exterior.

Hardware: Two piece cam turn handle lock with striker. 90 degree rotation of the handle lock unlocks the vent. All exposed surfaces of hardware shall be color matched to the vinyl color selected. Locks shall be securely anchored with self-tapping screws driven through the sash rail and into an extruded aluminum reinforcing bar.

Options: Grids—Standard, colonial, and diamond aluminum in-glass grids are available. Glazing-- obscure, Low-E, Argon-filled Low-E, tinted, double strength, Activ Glass and special tempered can be used. Field mulled units, oriel windows, transoms and custom shapes are available. A steep slope sill expander can be used when there are sills with drops over 3/4". Two styles of nail fins are available: folding, preflashed, and fin with 'J'. Flat casing, 2-1/2" Brickmold and 4" Exterior casing are available.