

# STERGIS Thermally Improved Aluminum Double Hung Window

Residential and Commercial Applications

## Architect's Specifications

**General:** Manufactured by *STERGIS* Windows and Doors, Attleboro, Massachusetts, or approved equal.

**Operation:** Both sash shall operate freely and tilt inward when in an unlocked position, remaining fixed in place for ease of cleaning or glass replacement. Sash shall easily removable from inside without the use of special tools by releasing allen wrench operated tilt mechanisms and tilting no more than 90 degrees.

**Materials:** Aluminum shall be of commercial quality aluminum alloy 6063T5 and free of defects impairing strength and durability. The aluminum extrusions for the main frame and sash shall have a minimum ultimate tensile strength of 22,000 PSI and a yield of 16,000 PSI. All main frame and sash members shall have a poured urethane thermal barrier, debridged to 1/8". Jamb and sash stiles shall have a nominal thickness of not less than .062", except for the fin trim, either integral or applied. The frame sill shall have a nominal thickness of not less than .094". Frame depth is 3 1/4".

**Frame Construction:** Frame members shall be coped and mechanically joined. All joints shall be secured by means of SSSM screws into integral parts and sealed to prevent water penetration.

**Sash Construction:** All horizontal sash members shall be of hollow tubular construction. All sash joints shall overlap in order to maintain a true square sash frame. Lock rail shall overlap keeper rail to create an airtight seal. Upper and lower sash shall be positive interlocking and shall have full length pull handles for operating ease. All windows shall have "hospital" sills which permit raising the lower sash 1 1/2" with no daylight opening at the sill, permitting ventilation at sash meeting rails.

**Screen Construction:** Standard screen shall be a half-screen with 18x16 mesh non-glare charcoal finished aluminum wire. Screen frames shall be of extruded .050 aluminum and installable or removable from the inside. Screen cloth shall be held securely by spline and shall be rewirable.

**Available Finishes:** Standard finish is electrostatically applied acrylic enamel white or bronze. Other finishes are available upon request.

**Glazing:** Sash are to be channel glazed using sealed insulating glass with a flexible vinyl glazing bead. The overall insulating glass thickness shall be 7/8" consisting of two lites of single strength annealed glass and one air space created by a dessicant-filled aluminum spacer. Standard glass shall be single strength domestic type B float glass, double strength on larger units.

**Weatherstripping:** Shall be dense polypropylene weatherstripping reinforced with a mylar strip running through the pile center. To insure a weathertight seal, weatherstripping is to be located on all four sides of both sash and jambs.

**Hardware:** All fasteners, screws, rivets, and other miscellaneous fastening devices shall be of aluminum, stainless steel, or other non-corrosive material compatible with aluminum. All exposed parts of hardware shall be of aluminum, stainless steel, or zinc die casting with a barrel nickel plate, in accordance with ASTM specifications A164-55 or A165-55. Sash balances shall be spiral type of appropriate size and capacity (up to four per sash) to hold each sash stationary at any open position and permit the sash to operate freely. Sash balances shall meet AAMA specification 902 and be easily replaced after the window is installed. Top sash shall have optional anti-drift locks to prevent sagging. When specified, lower insert shall have latch restrictors which prevent sash from tilting inward unless opened enough to clear through the jamb.

**Options:** Grids-- Standard, colonial, and diamond aluminum in-glass grids are available. Glazing-- obscure, Low-E, argon-filled Low E, triple glazing, double strength, and tempered glass are available.

