

Thermalprime 1199 Double Hung Aluminum Window Standard Specifications

All-Time Manufacturing Co. Inc. Since 1946

GENERAL

All aluminum windows of the type and sizes shown in the plans and/or as called for in this specification shall be furnished with all necessary hardware, anchors, and miscellaneous equipment as herein specified are Thermalprime 1199 Double Hung as manufactured by All-Time Manufacturing Co. Inc..

MATERIAL

Aluminum shall be of commercial quality aluminum alloy 6063T5, free from defects impairing strength and durability. This thermal window shall be constructed from specially designed, heavy gauge, extruded sections split with a structural thermal break in accordance with industry standards and drawings. Main frame and sash members shall have a nominal wall thickness of not less than 0.062", except for fin trim and expanders either integral or applied. Frame sill shall have a nominal thickness of not less than 0.078", the structural strength and the standard wall thickness tolerance as defined in the Master Specification ANSI/AAMA 101-93 for DH-C 45.

CONSTRUCTION

All horizontal sash members shall be hollow extrusions and be constructed with a minimum depth of 1-5/8". All joints of the sash shall be secured by two screws into integral screw ports and sealed with a small joint seam sealer. When mullioned units occur, jointed by independent mullions, the resulting member shall be capable of withstanding the load outlined under the uniform load section of ANSI/AAMA 101-93. Sash shall interlock at center meeting rails.

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 aluminum, durable plastic composite, stainless steel, or corrosive-resistant treated steel. Balances shall provide a positive lifting force, shall operate freely in both directions to effectively reduce the force required to operate the sash and shall hold the sash stationary in any position along the full range of sash travel without the use of auxiliary frictional holding forces. Spiral type adjustable balances are standard.

FINISH

The exposed surface of the aluminum members shall be clean and free from surface blemishes. White and Bronze color PPG Polycron, Duracron, or equal baked acrylic enamel finishes standard. Many other colors are available special order upon request. Powder Coated Finish Available Special Order.

WEATHER-STRIPPING

Weather-stripping shall be dense weather-stripping with integral polypropylene fin conforming to AAMA 701.2. Weather-stripping shall be located on all four sides of both sashes to insure no metal-to-metal contact. Bulb vinyl is to be located on the exterior of the lower sash at the sill to insure a weathertight seal.

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OPERATION

Both sashes shall operate and tilt inward when in an unlocked position for ease of window cleaning. Main frame of window shall be 3-1/4" in depth. All operating sash surfaces shall be completely separated from metal-to-metal contact through the use of woven pile, vinyl, or nylon.

PERFORMANCE

Window shall meet the Voluntary Specifications for Aluminum Prime Windows per ANSI/AAMA 10193 for DH-C 45. Window U-Value w/ Double Pane, Low-e Glass, Argon Gas ~0.43 / Triple 0.37 / Vacuum 0.21

Testing and DP interpretation on our Thermalprime window in double hung and single hung with replacement 3 1/4" frame below. Optional flush fin available. (We also make picture window style with equal or better performance.)

Sizes in inches width x height; DP x 1.5 = PSF or PSF / 1.5 = DP

1199 DH 40 x 71 DH-C 45 STP 112.5 psf. Water resistance of 6.0, 171 mph wind speed. ("DP75")

1199 DH 55 3/4 x 90 1/8 DH-C 45 STP 67 .5 psf. ("DP45")

1199S SH 40 x 71 DH-C 40 STP 120 psf. Water resistance of 6.0, 177 mph wind speed. ("DP80")

1199S SH 55 x 90 DH-C 40 STP 75 psf. ("DP50")

GLAZING

Window shall be glazed with 7/8" nominal thickness double or triple insulated glass units set in a wrap-around vinyl glazing channel. Using Dura-Platform warm edge spacer system and clear or Low-e 3/32" or 1/8" glass panels. Argon gas fill and Krypton gas fill available upon request.

Vacuum Glass Tempered Units available upon request.

INSTALLATION

All window frames shall be set in accordance with the manufacturers recommendations without springing, forcing or distorting. Head and sill shall be aligned parallel, and square with jambs. A nonhardening sealant compatible with aluminum shall be provided by the window erector and supplied in sufficient quantity to provide a watertight seal between window and surrounding construction.

SCREENS

Half (or full special order upon request) screens shall be provided made from extruded aluminum frames with 18 x 14 fiberglass wire cloth secured within using a rubber spline.

ADDITIONAL FEATURES

Additional features and accessories such as architectural panning, interior and exterior grids/muntins, special glass, nail fin, mullions, etc. can be supplied upon request.