

## ALUMINUM WINDOW DOUBLE HUNG TILT

<b>Product Series Number:</b>	<b>CTD-2000 AAMA Rating: H-C50 42x78; H-C40 56x91</b>
	<b>CTD-2000A* AAMA Rating: H-C50 54x90</b>
<b>Applications:</b>	Normal Duty Commercial, Residential
<b>Frame Depth:</b>	3-1/4"
<b>Glass Unit Thickness:</b>	7/8"
<b>Dimension Limitation:</b>	Minimum: W=13" H=20"
	Maximum: W=56" H=99"

### Architecture Specifications

**General:** Manufactured by Crystal Window & Door Systems, Ltd., 31-10 Whitestone Expwy, Flushing, NY 11354.

**Operation:** Sash shall be counterbalanced to remain in place during operation. Both sash shall tilt in for cleaning exterior glass surface.

**Materials:** All extrusions shall be Prime-Alloy 6063-T5 and shall be thermally broken by a high density and low thermal conductive material. Rigid vinyls are used in construction for added thermal improvement. Sill has a main wall thickness of 0.078". Jambs, heads, mullions, stiles and rails shall have a main wall thickness of 0.062". Rails shall be tubular profile.

**Frame construction:** Frames shall have integral screen tracks. Head shall be fitted with a head expander. All corners shall be coped and butt-joined and mechanically fastened with two stainless steel screws per corner. Frame depth shall be 3.250". Frames with casement fin are available.

**Sash construction:** All sash corners shall be coped and butt-joined and mechanically fastened with two stainless steel screws per corner. The lift on lower sash shall be rounded at its corners. Sash shall be deep interlocked augmented with two additional weather-strippings.

**Glazing:** Both sash shall utilize 7/8" thick insulating glass consisting of two sheets of 3/32" thick clear annealed glass and a desiccant filled metal spacer system (intercept insulating unit). A butyl sealant shall be extruded around the entire perimeter of the spacer to achieve a seal. Both sash shall be marine glazed with the glass unit set in a wrap-around vinyl glazing channel.

**Screen construction:** Standard screen shall be a half screen. The screen rails shall be extruded of

aluminum with all corners keyed. The screen frame shall be fitted with 18 x 16 mesh rewirable charcoal fiberglass screen cloth or aluminum screen wire by a flexible spline.

**Hardware:** Sash balances shall be factory calibrated spiral balances. Balance rods shall be inserted into the slot of the shoe which lock in place once sash is tilted in. Sash lock shall be finished either white or black. Sash lock shall be fastened at the lock rail by two self-tapping screws.

**Weatherstripping:** High-density woven pile shall be used in combination with continuous polyethylene rigid seal to minimize air infiltration.

**Finish:** All exposed surfaces shall receive an electrostatically baked-on polyester TGIC powder finish. The painting process is preceded by a non-chromate conversion coating for proper adherence.

**Options:** Between glass grids – Colonial, Georgian and Diamond aluminum in white, bronze or two tone (green-white or bronze-white), are available. Applied grids are also available. Glazing – Swiggle glass units, obscure wire, clear wire, frosted, Low-E, Argon filled Low-E and special tempered glass can be used. Full screen, field mulled or factory mulled units, and oriel windows are available. Double lock, vent lock, two tone and custom colors are available.

**Stainless steel 18-8, non-magnetic, 1-1/4" long screws for frame and sash, white-bronze sash lock (with nickel and copper), block and tackle balance (supplied by SBI) with shoe that can be tilted and metal tilt latch with temper proof security lock for management operation only are available for HPD job.**

**\* Upgraded product (CTD-2000A) with new designed heavy duty SILL & STILE RAIL to reach higher structure performance.**