

**TECHNICAL SPECIFICATIONS**  
**VINYL PRO 2000™ CASEMENT VINYL REPLACEMENT WINDOW**

**GENERAL:**

Windows shall be Vinyl Pro 2000™ Casement Vinyl Replacement window as manufactured by Lockheed Window Corp., Route 100, Pascoag, Rhode Island. Window shall meet or exceed AAMA/WDMA/CSA 101/I.S.2/A440-11, NAFS, LC-PG50 and/or LC-PG75 as required.

**MATERIAL:**

Master frame and vent members shall be of impact modified, UV stabilized, heavy wall, multi-chambered, tubular Poly Vinyl Chloride (PVC) extrusions. All fasteners shall be hardened stainless steel in accordance with American Architectural Manufacturers Association (AAMA) specifications. Ancillary components shall be of materials consistent with application and compatible with PVC.

**MASTER FRAME:**

All master frame profiles shall have .080" walls and shall be constructed of multi-chambered vinyl extrusions, fusion welded at each corner. Corner welds shall be cleaned so as to leave the exposed surfaces free of burrs and blemishes. The master frame shall have one (1), continuous sealing perimeter row of foam filled bulbous weather-stripping. This weather-stripping shall exert a positive seal against the vent frame when the vent frame is in a closed and locked position.

The master frame shall be supplied with a vinyl "U" channel head expander and aluminum sill angle which provides for "custom sizing" of the window height to the frame opening.

One (1) "wafer head" screw type jamb adjuster shall be located at the mid point of each master frame jamb which is designed to provide uniform pressure on the rough opening to compensate for "squaring" of the master frame within the rough opening.

Two (2) installation screw holes shall be located in each master frame jamb, head and sill. Color matched nylon caps shall be furnished to snap over heads of all installation screws after they have been fastened through their respective installation holes.

**VENT(S):**

Vent(s) shall be constructed of multi-chambered, vinyl, tubular extrusions, fusion welded at each corner. Corner welds shall be cleaned so as to leave the exposed surfaces free of burrs and blemishes. Each vent shall have one (1), continuous sealing perimeter row of foam filled bulbous weather-stripping when combined with the master frame seal perimeter. This weather-stripping shall constitute a total of two (2), positive seals between the master frame and vent assembly when the vent assembly is in a closed locked position. One (1) vent pivot roller is located at the bottom horizontal of each operable vent to decrease rotary operator force when the operating vent engages the master frame.

**HARDWARE:**

Each vent shall be equipped with a heavy-duty hinge and slide bar mechanism made of hardened steel and self-lubricating nylon. Optional clear opening hinge is also available. Each hinge shall be attached to its corresponding top and bottom vent horizontals, and each slide bar to its corresponding master frame horizontals. These hinges and slide bars shall allow for correct operation of the casement vent(s). Each set of hinges shall be rated to carry a maximum vent static weight of 120 pounds. All operating vent(s) shall be supplied with four (4), additional 2 1/2" installation screws which must be inserted through hinge pivot screw holes (by first removing factory installed end hinge pivot screws). (Consult installation instruction sheet for a more detailed description of this function.) This procedure allows operating torque to be transferred directly to rough opening head/sill.

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**HARDWARE continued:**

Each operating casement vent is furnished with one (1) color matched operator which is factory mounted through a cut out in the main frame sill. This operator shall provide for continuous control of each operating vent. Either a single or split arm operator shall be utilized depending on window width. A detachable clip linkage shall allow the operator to be disengaged from the bottom vent hinge assembly when required.

The operator mechanism shall be made of a high-pressure zinc die cast housing, crank handle, and knob. Operator case, crank handle, and knob shall be color matched to window finish. Gears and operating arms are of hardened steel with E-GARD (moisture resistant coating) finish. The operator(s) will be either left or right handed (as determined by the hinge location, when viewed from the inside). The operator(s) shall be mounted with a closed cell foam adhesive backed gasket for positive operator to master frame seal. All operators are spring loaded and have fold down handles.

When the operator(s) are installed in window applications over two stories, a limit device restricting the operating vent(s) to open less than its standard 90 degrees is recommended. Contact factory for window loading recommendation. Optional clear opening hinges can be specified for minimum square footage clear opening requirements.

Each operating vent is furnished with a multi point locking bar and locking handle. One (1), locking handle is located and attached through a corresponding cut out(s) in the master frame jamb(s) and/or structural mullions (depending on number of operating vent(s)). The locking handle(s) shall be located 8" from the bottom of each lock jamb. The locking handle(s) shall be color matched to the window finish.

A multi point locking bar shall be factory installed on each master frame jamb and/or structural mullion that has a corresponding operating vent. Depending on the overall window height, a minimum of one (1), and maximum of five (5), locking points shall be furnished on the locking bar. Each locking handle will activate the locking bar and shall be "timed" to engage from one (1) to five (5) corresponding nylon glass reinforced keepers which are located on each operating vent. By activating a single locking handle, a maximum of five (5) locking points (keepers) shall be engaged on each operating vent, for a positive and uniform vent to master frame lock and seal. White windows shall have white keepers, and territone and almond windows shall have black keepers.

One (1) "snubber(s)" shall be mounted at the mid point of each main frame hinge side jamb and/or structural mullion for which there is a corresponding operating vent. The "snubber(s)" is designed to prevent the out ward bowing and negative air pressure of a casement vent(s), when they are in a closed and locked position.

The "snubber(s)" shall be color matched to the window finish with the exception of the PVC insert, which shall be white.

**FINISH:**

All Poly Vinyl Chloride (PVC) profiles shall be white, territone, or almond color throughout.

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**GLAZING:**

Vent(s) shall be interior glazed using sealed insulating glass with an adhesive glazing tape or equivalent bedding and a rigid vinyl glazing bead. Glass shall be set with neoprene glazing blocks to maintain uniformity around the glass perimeter.

Standard glazing shall be nominal 13/16" thick sealed insulating glass consisting of two pieces of SSB clear float glass (double glazed). Optional glazing shall be nominal 13/16" thick sealed insulating glass consisting of one piece of SSB clear float glass and one piece of SSB low "E" glass. Optional argon gas filled sealed insulating glass units are also available. All insulating glass units come standard with Technoform TGI® warm edge IG spacer.

**SCREENS:**

Fixed, removable insect screens shall be standard for each operating vent(s). Screens shall be of hollow aluminum extrusions color matched to window. Screen cloth shall be black fiberglass 18 X 16 mesh wire. Screens shall be fixed, removable and held in place by nylon color matched retaining clips, two (2) per master frame jamb and/or structural mullion. Screen extrusion corners shall be mitered and contain one (1) zinc die cast corner key per corner, and shall be mechanically staked to securely hold screen frame together.

**INSTALLATION:**

Windows shall be installed straight, plumb, level, square, and securely anchored, in accordance with manufacturer's recommendations and details. See instructions on each window.

**WARRANTY:**

See manufacturer's separate warranty.

**SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE**

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