



SERIES 4300 CASEMENT VINYL WINDOW SPECIFICATIONS

* Gerkin Windows & Doors Series 4300 is a 3 1/4" commercial grade casement window with superior performance capabilities. This window meets or exceeds all AAMA commercial design and performance criteria. The series 4700 fixed window complements the 4300 series windows in horizontal or vertical stacking configurations. A complete line of mullions, 'J' channel, and other accessories is also available.*

SECTION 08630 VINYL WINDOWS

PART 1: GENERAL

1.01 Work Included

- A. Furnish and install commercial grade vinyl windows complete with hardware and related components as shown on drawings and specified in this section.
- B. All windows shall be Gerkin Windows & Doors Series 4300 Casement Windows. Other manufacturers requesting approval to bid their product as an equal must submit the following information fifteen days prior to close of bidding.

* Gerkin Model Numbers:

- 4312 - 1 Lite
- 4320 - 2 Equal Lite XX
- 4330 - 3 Equal Lite XOX
- 4340 - 4 Equal Lite XOOX
- 4350 - 3 Lite Picture XOX
- 4370 - 2 Equal Lite XO or OX

1. Sample window * STATE SIZE AND CONFIGURATION *
2. Test reports and AAMA Notices of Certification documenting compliance with the requirements of Section 1.04.

C. Glass and Glazing

* Specify glass and glazing in this section if window assemblies are to be glazed by the window manufacturer. If glazing is to be done by a different contractor, glass and glazing should be specified in section 08800. Gerkin Windows & Doors recommends that the window manufacturer perform the glazing.*

1.02 Related Work

1.03 Items Furnished but not Installed

1.04 Testing and Performance Requirements

- A. Test Unit
 1. Air, water and structural test unit sizes and configurations shall conform to the requirements set forth in AAMA/NWWDA 101/I.S. 2-97
- B. Test Procedures and Performance
 1. Windows shall conform to all AAMA/NWWDA-101/I.S. 2-97. C-C65 requirements for the window type referenced in 1.01.B. in addition, the following specific performance requirements shall be met.
 2. Air infiltration Test

- a. With window sash closed and locked, test the unit in accordance with ASTM E 283-84 at static air pressure difference of 6.24 psf.
- b. Air infiltration shall not exceed 0.04cfm per square foot.

3. Water Resistance Test

- a. With window sash closed and locked, test unit in accordance with ASTM E 547-86 static air pressure difference of 12.0 psf.
- b. There shall be no uncontrolled water leakage.

4. Uniform load structural test

- a. With window sash closed and locked, test unit in accordance with ASTM E 330-84 at a static air pressure difference of 142.5 psf positive pressure and 142.5 psf negative pressure.
- b. At the conclusion of test there shall be no glass breakage, permanent damage to fasteners, hardware parts, support arms or operating mechanism nor any other damage which would cause the window to be inoperable.

1.05 Quality Assurance

- A. Provide test reports from AAMA accredited laboratories certifying the performance as specified in 1.04.

1.06 References

1.07 Submittals

- A. Contractors shall submit shop drawings, finish samples, test reports, and warranties.
 1. Samples of materials as may be requested without cost to owner, i.e., metal, glass, fasteners, anchors, frame sections, mullion sections, corner sections, etc.

1.08 Delivery, Storage, and Handling

1.09 Warranties

- A. Total Window System
 1. The responsible contractor shall assume full responsibility and warrant for one year the satisfactory performance of the total window installation which includes that of the windows, glass (including insulated units), glazing, anchorage, and setting system, sealing,

- flashing, etc. it relates to air, water, and structural adequacy as called for in the specifications and approved shop drawings.
2. Any deficiencies due to such elements not meeting the specifications shall be corrected by the responsible contractor at his expense during the warranty period.

PART 2: PRODUCT

2.01 Materials

- A. Vinyl

All extrusions shall be made from high impact UPVC (Unplasticized Polyvinyl Chloride)
- B. Hardware
 1. Sash shall operate with an Entryguard™ dual arm operator as manufactured by Truth Hardware.
 2. Sash shall operate on concealed casement hinges with detachable support arms.
 3. Sash shall be locked using a multi-point locking system with single actuator as manufactured by Truth Hardware
 4. Sash hinge jamb shall be supported in the closed position using a concealed snubber.
- C. Weatherstripping
 1. Weatherstripping shall be finseal woolpile as manufactured by Schlegel Building Products.
 2. Weatherstripping shall be a bulb type. Corners shall be welded together.
- D. Glass and Glazing

* Gerkin Windows & Doors recommends that the window manufacturer finish and factory glaze the glass as specified by the architect. For this reason it is desirable that glass and glazing be part of this section. The 4300 Series is available with 3/4" insulated glazing. Please contact Gerkin Windows & Doors if other than the listed glazing is required. *

2.02 Fabrication

- A. General
 1. All frame members and sash extrusions shall have a minimum wall thickness of .065".
 2. Depth of frame and sash shall not be less than 3 1/4".
- B. Frame
 1. Frame components shall be mitered and welded. Type listed in 2.01.A.
 2. Frame components shall have two rows of Weatherstripping installed in specially designed grooves. Type listed in section 2.01.C.2.
- C. Sash
 1. All sash components shall be mitered and welded. Type listed in 2.01.A.
 2. All sash members shall have one row of Weatherstripping installed in a specially

- designed groove of the type listed in section 2.01.C.1.
- D. Screens (Optional)
 1. Screen frame shall be roll formed aluminum.
 2. Screen mesh shall be a 18 x 16 * aluminum or fiberglass * mesh.
 - E. Glazing
 1. Units shall be glazed from interior against dual durometer vinyl leaf extruded vinyl snap-in. The interior glazing retainer shall be a dual durometer vinyl snap-in.
 - F. Hardware
 1. Locking hardware shall be located in the jamb opposite of the hinge jamb. Type listed in section 2.01.B.3.
 2. Locking hardware shall lock into a keeper attached to the sash.
 3. Sash shall operate on two hinges. Type listed in section 2.01.B.2.
 4. Operator shall be located on the sill. Operator cover shall be sealed in place. Type listed in section 2.01.B.1.

PART 3: EXECUTION

3.01 Job Condition

- A. Verify that openings are dimensionally within allowable tolerances, plumb, level, clean, provide a solid anchoring surface and are in accordance with approved shop drawings.

3.02 Installation

- A. Use only skilled tradesmen with work done in accordance with approved shop drawings and specifications.
- B. Plumb and align window faces in a single plane for each wall plane and erect windows and materials square and true. Windows to be adequately anchored to maintain positions permanently when subjected to normal thermal and building movement and specified wind loads.
- C. Adjust windows for proper operation after installation.
- D. Furnish and apply sealant to provide a weathertight installation at all joints and intersections and at opening perimeters. Wipe off excess material and leave all exposed surfaces and joints clean or smooth.

3.03 Adjusting and Cleaning

- A. After completion of window installation, windows shall be inspected, adjusted, put into working order and left clean, free of labels, shipping pads, dirt, etc. Protection from this point shall be the responsibility of the general contractor.

* Note to spec writers only not to be included in specifications.*