



SERIES 4800 DOUBLE HUNG/DOUBLE TILT VINYL WINDOW SPECIFICATIONS

* Gerkin Windows & Doors Series 4800 is a 3 1/4" residential grade double hung window with superior performance capabilities. This window meets or exceeds all AAMA residential design and performance criteria. The series 4810 fixed window complements the 4810 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 residential 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 4800 Double Hung Windows. Other manufacturers requesting approval to bid their product as an equal must submit the following information fifteen days prior to close of bidding.
 - 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-R35 **DH-R50** 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 1.57 psf.
 - b. Air infiltration shall not exceed 0.07 cfm 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 5.25 psf. **7.50 psf pos. and 7.50 psf neg.**

- 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 52.5 psf positive pressure and 52.5 psf negative pressure. ** 75.0 psf pos. and 75.0 psf. neg**
- 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.
 - ** Note to spec writer: DH-R50 - max. 44" W x 60" H with added dam riser**

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. as 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 lock using sweep style locks.
 - 2. Lock keeper shall be a flush mounted molded nylon.
 - 3. Balances shall be block and tackle type. Size and strength shall be determined by size and weight of each sash.
 - 4. Pivot bars shall be molded metal. Pivot bars shall interlock into the balance shoes.
 - 5. Balance shoes shall be molded nylon with glass fibers.
 - 6. Sash shall be locked from tilting by use of concealed molded tilt latches.
- C. Weatherstripping
 - 1. Weatherstripping shall be finseal woolpile as manufactured by Schlegel Building Products.
 - 2. Coextruded vinyl bulb.
- 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 4800 Series is available with 3/4" insulated glazing. Please contact Gerkin Windows & Doors if other than the listed glazing is required. *
- E. Reinforcement
 - 1. All internal frame and sash reinforcement shall be 6063-T6 aluminum alloy.
 - 2. There shall be reinforcement in all sash members not trapped by the mainframe.

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 3/4".
- B. Frame
 - 1. Frame components shall be mitered and welded. Type listed in 2.01.A.
 - 2. Frame head and sill shall have one row of weatherstripping installed in a specially designed groove of type listed in sec 2.01.C.1.
 - 3. Frame sill shall be sloped to the exterior with no apparent weep holes.
 - 4. Frame sill shall be reinforced with type listed in section 2.01.E.1.
 - 5. Frame jamb shall have a collapsing parting strip that folds out of the way when the upper sash is tilted in.
- C. Sash
 - 1. All sash components shall be mitered and welded. Type listed in 2.01.A.
 - 2. Both upper and lower sash meeting rail shall have aluminum reinforcement. Type listed in section 2.01.E.
 - 3. Vertical stiles in both sashes shall have an aluminum reinforcement in window above 48" in height. Type listed in section 2.01.E.
 - 4. Upper sash meeting rail shall have a continuous interlocking leg that captures an interlocking leg on the lower sash meeting rail.
 - 5. Sash rails shall have three rows of Weatherstripping installed in specially designed grooves. Type listed in sec. 2.01.C.1

- 6. Lower sash sill rail shall have one row of Weatherstripping installed in specially designed grooves. Type listed in section 2.01.C.2.
 - 7. Sash lift handles shall be an extruded part of the sash rails.
 - 8. Both upper and lower sash shall equal sightlines with identical glass size.
- D. Screens (Optional)
 - 1. Screen frame shall be extruded aluminum.
 - 2. Screen mesh shall be a 18 x 16 * aluminum or fiberglass mesh*.
 - 3. Screen shall completely cover both upper and lower sash.
 - E. Glazing
 - 1. Units shall be against a continuous bead of silicone. The glazing retainer shall be extruded vinyl snap-in.
 - F. Hardware
 - 1. Locking hardware shall be located in the lower sash meeting rail listed in section 2.01.B.1.
 - 2. Locking hardware shall lock into a keeper attached to the upper sash meeting rail. Type as listed in section 2.01.B.2.
 - 3. Sash shall operate on two block and tackle balances. Type as listed in section 2.01.B.3.
 - 4. Both sashes shall pivot towards the interior using pivot bars type listed in section 2.01.B.4.
 - 5. Tilt latches shall be located in meeting rail of the lower sash and the top rail of upper sash. Type listed in section 2.01.B.6.

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 install.
- 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.*

Gerkin Windows & Doors - P.O. Box 3203, Sioux City, IA 51102 Phone: (402) 494-6000 - 800-475-5061 - FAX: (402) 494-6765 -