



Vinyl Window Designs Ltd.
550 Oakdale Road
Toronto, ON M3N 1W6

DIVISION 08 / SECTION 08560, VINYL WINDOWS

SPECIFICATIONS

1.0. Section includes:

1. All windows of the types and sizes as called for in this specification shall be furnished with all necessary hardware and miscellaneous equipment as herein specified and shall be manufactured by Vinyl Window Designs Ltd

2. Windows to be Premium Style 100M Casement Windows with uPVC vinyl.

2.0. Quality Assurance:

1. Provide independent, third party laboratory testing.

a. AAMA/WDMA/CSA101 I.S.2/ A440-08

R-PG70 FER10 DP 3400 Water 720pa CSA A3 cfm .05/.06

b. CAN/CSA A440 A3, B7, C5, F20, S1

c. Canadian Energy Rating of +32* (Double Glazed, PlanithermLUX type Low E and Argon Gas)

d. U value 0.27 imperial / 1.59 metric, SHGC .27 (Double Glazed, Solarban 60 type Low E and Argon Gas) meets ENERGY STAR Northern Zone

U value 0.28 imperial / 1.59 metric, SHGC .48 (Double Glazed, PlanithermLUX type Low E and Argon Gas) meets ENERGY STAR Northern Zone

e. Canadian Standards Association Certified

f. National Fenestration Rating Council Certified

g. ENERGY STAR Qualified glass packages available.

h. Window Wise Certified

i. AAMA Certified

3.0 2. All glass to IGMA Certified Products:

1. Material:

a. All Premium Windows to be uPVC premium quality vinyl compound with Multi-chambered design for thermal efficiency and strength. The vinyl extrusions used shall be of commercial quality and of proper formulation for window construction, free of defects impairing strength and durability.

b. Reinforcement of extruded aluminum shall be used internally in sash and frame to strengthen anchorage points for fasteners for hinge and operator.

2. Components:

a. Frame shall be welded and watertight.

b. Sash shall be welded and watertight. Interior stops allow for reglazing and shall allow for either 7/8", 1 1/8" or 1 3/8" overall SU thicknesses. Dual durometer extruded on sash material. Sashes open to 90 degrees for cleaning.

3. Hardware:

a. Truth Contour (dyad type) Operator with recessed casing in which its folding handle nests.

b. Truth Maxim Multipoint Locking System.

c. Truth Maxim Hinge System (adjustable type).

4. Weather-stripping:

a. Triple sealed utilizing two seals of neoprene material and one exterior fin seal.

5. Fasteners:

a. All screws and other miscellaneous fastening devices incorporated shall be of aluminum, stainless steel, or other non-corrosive material compatible with the vinyl extrusions. Cadmium or zinc plated steel, where used, shall be in accordance with ASTM B 766-86 or ASTM B 633-85. Nickel or chrome plated steel, where used, shall be in accordance with ASTM 456-94 type SC.

6. Insect Screens:

- a. Standard screen members shall be tubular cold rolled aluminum and shall conform to CGSB Specifications applicable to the specific size of the window. Mesh shall be 8 x 16 fiberglass and shall be secured with a removable round polyethelene spline. Screens shall be secured to frame with manufacturer's patent pending TouchScreen (magnetic screen) materials.**
- b. Insect Screens are designed and intended only to provide ventilation and reasonable insect control.**

7. Glazing:

- a. Windows shall be factory glazed into drained sash cavities. The insulated glass is secured to the sash and frame with a ductile bedding compound. Setting blocks are utilized.**
- b. Double units shall be overall 7/8" or 1 1/8". Triple glazed units shall be overall 1 3/8".**
- c. A full perimeter bead of silicone is applied inside the glazing cavity on all 7/8" double glazed windows.**
- d. Sealed units shall have PPG Stainless warm edge spacer technology.**
- e. Sealant shall be PPG approved DSE (dual seal equivalent) material.**
- f. Glass thickness to meet local and Federal building codes, unless otherwise specified.**
- g. Assembly shall conform to ASTM E 774-92, level A. Tempered glass shall conform to ASTM C 1048-91. Annealed glass shall conform to ASTM C 1036-91.**
- h. Sealed units are available with two lites of clear glass, PlanithermLUX on surface 3 or Solarban 60 on surface 2.**
- i. Triple glazed units are available with three lites clear, two lites clear and one coating of PlanithermLUX on surface 5, two lites clear and one coating of Solarban 60 on surface 2, one lite clear and two coatings of PlanithermLUX on surfaces 3 and 5, one lite clear and two coatings of Solarban 60 on surfaces 2 and 4.**
- j. Sealed units are available with air fill, argon and argon (90%)/krypton(10%) mix at a 90% fill.**

8. Finish:

- a. Windows are available in extruded white colors #137 and #143.**
- b. Windows are available with exterior painted surface utilizing water based paints.**
- c. Windows are available with interior wood grain film in VWD standard color.**

4.0 Warranty:

1. The installer shall assume full responsibility that the installation is in accordance with the specifications, contract documents and manufacturer specifications.

2. Manufacturer's Warranty: Furnish manufacturer's Limited Lifetime Warranty on residential window products and site-specific warranty for projects.

5.0 References:

1. American Society of Testing Materials (ASTM):

- a. ASTM C 509-94 Specification for Elastomeric Cellular Preformed Gasket and Sealing Material.**
- b. ASTM B 633-85 Specification for Electrodeposited Coatings of Zinc on Iron and Steel.**
- c. ASTM B 766-86 Specification for Electrodeposited Coatings of Cadmium.**
- d. ASTM B 456-94 Specification for Electrodeposited Coatings of Copper Plus Nickel Plus Chromium and Nickel Plus Chromium.**
- e. ASTM C 1036-91 Specification for Flat Glass.**
- f. ASTM E 774-92 Specification for Sealed Insulated Glass Units.**

2. American Architectural Manufacturers Association (AAMA):

- a. AAMA 701-92 Voluntary Specification for Pile Weatherstripping.**
- b. AAMA 800-92 Voluntary Specification and Test Methods for Sealants.**
- c. AAMA 1302.5-1976 Voluntary Specification for Forced-Entry Resistant Aluminum Prime Windows.**

d. AAMA 902-94 Voluntary Specification for Sash Balances.