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 201VS or 201BMJ Single Hung Windows with uPVC vinyl.

2.0. Quality Assurance:

1. Provide independent, third party laboratory testing.

a. AAMA/WDMA/CSA101 I.S.2/A440-05 –
C-PG55 FER10 (47 x 72) DP 2670**
(Optional upgrade package required for this rating.)

AAMA/WDMA/CSA101 I.S.2/A440-08 –
R-PG55 (40 x 63) DP 2650 Water 400pa CSA A3 cfm .09/.06

AAMA/WDMA/CSA101 I.S.2/A440-05 - C-PG30 (55 x 91)

b. CSA A440-00: A3/Fixed, B3, C3, F10, S1

c. Canadian Energy Rating of +35* (PlanithermLUX Low E and Argon Gas)

d. U value 0.28 imperial / 1.59 metric, SHGC .31 (Solarban 60 Low E and Argon Gas)

U value 0.29 imperial / 1.65 metric, SHGC .56 (PlanithermLUX Low E and Argon Gas) ENERGY STAR Northern Zone

e. Canadian Standards Association Certified

f. National Fenestration Rating Council Certified

g. AAMA certified

h. ENERGY STAR Certified

i. Window Wise Certified

2. All glass to IGMA Certified

3.0 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.

2. Components:

a. Frame shall be welded and watertight. Sill has a pocket in which the operating sash nests when closed. 201BMJ has an extruded Brick Mould with siding pocket and Nail Fin.

b. Sash shall be welded and watertight. Exterior stops to allow for reglazing. Sash interlocks shall be extruded vinyl type as part of the sash material. Single operating sash design. Operating sash tilts inward for cleaning of exterior glass. Dual durometer extruded on sash material. Sill is sealed with double neoprene seal.

3. Hardware:

a. Two center locks on sliding windows to be molded metal with powder coated paint when width is greater or equal to 32". (Single center lock standard on windows where width is less than 32".) Optional Smart Locks combine the function of the center locks and tilt latches on windows. Only available where double center locks are available.

b. Constant force coil balance system, with disconnect-resistant tilt pins.

4. Weather-stripping:

a. All sliding windows to be triple sealed with fin seal.

b. Compression style neoprene seals where sash compresses against the sill.

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 approved fastening device suited to the specific application for which the window is intended.

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 and triple glazed units shall be overall 7/8".

c. Sealed units shall have PPG Stainless warm edge spacer technology.

d. Sealant shall be PPG approved DSE (dual seal equivalent) material.

e. Glass thickness to meet local and Federal building codes, unless otherwise specified.

f. 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.

g. Sealed units are available with two lites of clear glass, solar gain on surface 3 or solar shield on surface 2.

h. 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.

i. Sealed units are available with air fill, argon and argon (90%)/krypton(10%) mix at a 90% fill. (IGCC certified to these ratings – field units may vary.)

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.

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.