

## SECTION 08565

### SERIES 8700 REPLACEMENT IMPACT RESISTANT HORIZONTAL SLIDER VINYL (PVC) WINDOWS

#### PART 1 GENERAL

##### 1.01 SECTION INCLUDES

- A. Horizontal Slider Windows

##### 1.02 RELATED SECTIONS

- A. Section 06100 – Rough Carpentry.

##### 1.03 REFERENCES

- A. ASTM E 1886-02 - Standard Test Method for Performance of Exterior Windows, Curtain Walls, and Storm Shutters Impacted by Missile(s) and Exposed to Cyclic Pressure Differentials.
- B. ASTM E 1996-02 –Standard Specification for Performance of Exterior Windows, Glazed Curtain Walls, Doors, and Storm Shutters Impacted by Window Borne Debris in Hurricanes.
- C. AAMA/NWWDA 101/1.S.2/A440-05 – Voluntary Specifications for Aluminum, Vinyl (PVC) and Wood Windows and Glass Doors; American Architectural Manufacturers Association, 1997 with revisions contained in “reprinting” of 12/99.
- D. AAMA 303 – Voluntary Specification for Poly (Vinyl Chloride) (PVC) Exterior Profile Extrusions: American Architectural Manufacturers Association: 2000.
- E. AAMA 701/702 – Combined Voluntary Specification for Pile Weatherstrip and Replaceable Fenestration Weatherseals; American Architectural Manufacturers Association: 2000.
- F. AAMA 902 – Voluntary Specification for Sash Balances; American Architectural Manufacturers Association: 1999.

##### 1.04 SYSTEM DESCRIPTION

- A. Unit Structural Performance ratings vs. size when tested in accordance with: ASTM E 1886-02 and ASTM E 1996-02
  - 1. Impact Cycle Pressure 50 PSF for sizes up to 73” x 63”
- B. Unit Structural Performance ratings vs. size when tested in accordance with: AAMA/NWWDA 101/1.S.2/A440-05
  - 1. Design Pressure (DP) 50 for sizes up to 73” x 63”

##### 1.05 SUBMITTALS

- A. See Section 01300 – Administrative Requirements for submittal procedures.
- B. Product Data: Provide manufacturer’s standard details and catalog data demonstrating compliance with referenced standards. Include Installation Instructions.
- C. Provide third-party certification that window meets or exceeds ASTM E 1886-02 Impact Resistant ratings per section 1.04.A above.
- D. Provide third-party certification that window meets or exceeds ASTM E 1996-02 Impact Resistant ratings per section 1.04.A above.
- E. Provide third-party certification that window meets or exceeds AAMA/NWWDA 101/1.S.2/A440-05. Structural ratings per section 1.04.A above.
- D. Shop Drawings; Submit the following:

1. Elevation for each style window specified; indicate sizes, glazing types, muntin types and designs.
  2. Schedule: Indicate each window in project; reference each unit to specific elevation style.
  3. Details: Head, jamb and sill details for each project condition.
- E. Quality Assurance Submittals: Evidence of certifications of window units required in Quality Assurance Article of this section.

#### 1.06 QUALITY ASSURANCE

- A. Manufacturer Qualifications: Minimum five (5) years of documented experience producing products of the type specified in this section.
- B. Certifications:
  1. Provide window units rated for air infiltration, water penetration and structural performance per AAMA/NWWDA 101/1.S.2/A440-05 and certified by independent third-party agent.
  2. Provide window units rated and certified for thermal performance by NFRC, and for seal integrity of insulating glass seal.

#### 1.07 DELIVERY, STORAGE, AND HANDLING

- A. Protect products from moisture, construction traffic, and damage in according with manufacturer's printed instructions.
- B. Do not use non-vented plastic or canvas shelters; open plastic wrapper immediately upon delivery to provide ventilation.

#### 1.08 WARRANTY

- A. See Section 01780 – Closeout Submittals, for additional warranty requirements.
- B. Manufacturer's Warranty: Furnish manufacturer's Limited Lifetime Warranty on window products.

### PART 2 PRODUCTS

#### 2.01 MANUFACTURERS: Acceptable Manufacturer

- A. Silver Line Building Products, Series 8500 Double Hung.
- B.
- C.

#### 2.02 COMPONENTS

- A. Vinyl Extrusions: Multi-chamber extrusions of impact-resistant exterior-grade rigid polyvinyl chloride (PVC) complying with AAMA 303.
- B. Insulating Glass Unit: Unit thickness 7/8 inch:
  1. Air Chamber: Hermetically sealed space between panes. Low e<sup>2</sup> glazing with argon gas filling. Low conductance spacer.
- C. Screens: Installable from interior side, providing only ventilation and reasonable insect control when operable sash is in open position: re-screenable using glass fiber mesh, 14 x 18 gage, secured in channel of aluminum box frame with continuous vinyl spline; frame color matching frame and sash color.
- D. Operating Hardware: Types for specified operable-sash windows; sight-exposed hardware of UV-stabilized, engineered plastic; color matched to vinyl extrusions for uniform appearance.
- E. Fasteners: Corrosion-resistant screws conforming to ASME B16.64.
- F. Weatherstripping: Types for specified operable sash windows and operable doors.
- G. Integral Muntins: Aluminum pre-finished to match window frame, factory-mounted between panes of insulating glass unit before sealing glass unit.

#### 2.03 DOUBLE HUNG WINDOWS

- A. Operable-Sash Windows:
  - 1. Frame and sash: Vinyl extrusions, nominal extrusion wall thickness 0.070 inch. Mitered and fusion-welded corners: optional 1-1/2 inch pre-punched nailing fin four sides; integral weep system; both sash must tilt-in for cleaning; integral glazing provision: molded-in lift handles.
  - 2. Factory Glazing: Insulating Glass Unit: Low e<sup>2</sup>.
    - a. Window shall achieve NFRC thermal u-value rating of 0.35 BTU/hr/SqFt/F° or lower without the need for argon gas fill.
  - 3. Operating Hardware:
    - a. Locks: Cam-type sash lock and keeper, engineered to force meeting stiles/rails, with interlock for minimum air infiltration.
    - b. Balances: Stainless steel balances, meeting requirements of AAMA 902, providing maintenance free operation without post-installation adjustment or lubrication.
  - 4. Weatherstripping: Double-row high-density silicone-treated wool pile, with double mylar fin, meeting requirements of AAMA 701.
  - 5. Screens: Frame color matching window frame and sash color.
    - a. Full size: Integral rails.
  - 6. Muntins: Integral, 6 over 6.
- B. Color: White
- C. Styles and Sizes: As indicated on drawings.

#### 2.04 ACCESSORIES

- A. Mullion Posts: Extruded aluminum with thermal break, color matching adjacent window frame.
- B. Accessories for installation with Vinyl Siding.
  - 1. Nailing Fin with integral J-Channel; extruded rigid vinyl, color matching adjacent window frame:

### PART 3 EXECUTION

#### 3.01 EXAMINATION

- A. Installer to verify that project conditions are acceptable before beginning installation of products; verify that rough openings are as indicated, and are correct sizes for clearance spaces specified in manufacturer's instructions.
- B. Correct any unacceptable conditions before proceeding with installation.

#### 3.02 INSTALLATION

- A. Install products in accordance with manufacturer's printed installation instructions and approved shop drawings.
- B. Install products plumb and in true alignment; fasten to achieve maximum operational effectiveness and best appearance of units.

#### 3.03 ADJUSTING AND CLEANING

- A. Ensure that windows operate correctly, free from biding or other defects.
- B. Clean and restore soled surfaces; remove scraps and debris, and leave site in clean condition.

END OF SECTION

