

**SECTION 08 53 13
VINYL WINDOWS**

PART 1 - GENERAL

1.1 SECTION INCLUDES

- A. Awning Windows
- B. Casement Windows
- C. Fixed Radius and Geometric Windows
- D. Horizontal Gliding Windows
- E. Single-Hung Side Load Windows

1.2 REFERENCES

- A. American Architectural Manufacturer Association (AAMA)
 - 1. ANSI/AAMA/NWDA 101/I.S.2 /NAFS; Voluntary Specifications for Aluminum, Vinyl (PVC) and Wood Windows and Glass Doors
- B. National Fenestration Rating Council (NFRC)
 - 1. NFRC 100; Procedure for Determining Fenestration Thermal Properties
 - 2. NFRC 200; Solar Heat Gain Coefficient and Visible Transmittance

1.3 DESIGN REQUIREMENTS

- A. Provide windows capable of complying with requirements indicated, based on testing manufacturer's window that are representative of those specified and that are of test size required by ANSI/AAMA/NWDA 101 I.S.2/NAFS.
- B. Structural Requirements – Provide windows capable of complying with requirements indicated:
 - 1. Design pressure: 75 or as required by the Contractors Engineer. Contractor to provide WPI-8 for replacement windows
- C. NFRC Requirements – Provide windows capable of complying with the following total window ratings:

1. U-Factor: 0.30 in accordance with NFRC 100.
2. Solar Heat Gain Coefficient (SHGC): 0.30 in accordance with NFRC 200.
3. Visible Transmittance (VT): 0.51 in accordance with NFRC 200.

1.4 SUBMITTALS

- A. Refer to Section 01 33 00 Submittal Procedures
- B. Product Data: Submit window manufacturer current product literature, including installation instruction.
- C. Samples: Provide finish samples for all products.
- D. Quality Assurance Submittals
 1. Design Data, Test Reports: Provide manufacturer test reports indicating product compliance with indicated requirements.
 2. Manufacturer Instructions: Provide manufacturer's written installation instructions.
- E. Closeout Submittals
 1. Refer to Section 01 78 00 Closeout Submittals

1.5 QUALITY ASSURANCE

1.6 DELIVERY, STORAGE AND HANDLING

- A. Refer to Section 01 60 00 Product Requirements
- B. Deliver windows materials and components in manufacturer's original, unopened, undamaged containers with identification labels intact.
- C. Store windows as recommended by manufacturer.

1.7 WARRANTY

- A. Refer to Section 01 78 36 Warranties
- B. Manufacturer standard warranty indicating that the window unit will be free from material and workmanship defects from the date of substantial completion for the time periods indicated below:

1. Window Unit: 10 years
2. Glazing:
 - a. Insulated Glass: 10 years against seal breakage
 - b. Laminated Glass : 5 years against delamination

PART 2 - PRODUCTS

2.1 MANUFACTURER

- A. JELD-WEN Windows and Doors; 3250 Lakeport Blvd. P.O. Box 1329; Klamath Falls, OR 97601-0268, USA; Phone 541.885.7412, fax 541.884.3331; Toll free 800.535. 3936; website www.jeld-wen.com
- B. Basis of Design: Windows are based on JELD-WEN® Premium Vinyl Windows.
- C. Or Approved Equal.

2.2 MANUFACTURED UNITS

- A. Frame
 1. Jamb Depth: 3-1/4 inch (82.5mm)
 2. Even Sight Lines: Available on horizontal sliding and single-hung side load
- B. Sash
 1. Thickness
 - a. Awning Windows: 2 1/4"
 - b. Casement Windows: 2 1/2"
 - c. Fixed Radius and Geometric Windows: N/A
 - d. Horizontal Gliding Windows: 1 1/4"
 - e. Single-Hung Side Load Windows: 1 1/4"
- C. None
- D. Weatherstripping
 1. Awning Windows: .270 fin pile combined with foam filled bulb

2. Casement Windows: .270 fin pile combined with foam filled bulb
 3. Fixed Radius and Geometric Windows: N/A Fixed only
 4. Horizontal Gliding Windows: .270 fin pile
 5. Single-Hung Side Load Windows: .270 fin pile
- E. Hardware:
1. Single-Hung Side Load Windows
 - a. Balance: Block and Tackle System
 - b. Lock: Standard lever
 - c. Finish: Color match window frame extrusion
- F. Glazing
1. Strength: Laminated Impact
 2. Insulated Glass:
 - a. Two panes of glass utilizing a continuous roll formed stainless steel and dual seal sealant.
 - b. Overall Nominal Thickness: 7/8"
 - c. Type: Type 1- Clear
 - d. Coating Options: Low E on surface 2

2.3 WINDOW ACCESSORIES

- A. Insect Screens
1. Material: Charcoal fiberglass screen cloth (18 by 16 mesh) set in painted roll formed aluminum frame.
 2. Frame Finish: Color match frame extrusion

2.4 CONSTRUCTION ACCESSORIES

- A. Flashing
- B. Sealants
1. Provide manufacturer recommended sealants to maintain watertight conditions.

2.5 FINISH

1. Color: Standard White

PART 3 - EXECUTION

3.1 GENERAL

- A. Install windows in accordance with manufacturer's installation guidelines and recommendations.

3.2 EXAMINATION

- A. Inspect window prior to installation.
- B. Inspect rough opening for compliance with window manufacturer recommendations. Verify rough opening conditions are within recommended tolerances.

3.3 PREPARATION

- A. Prepare windows for installation in accordance with manufacturer's recommendations.

3.4 INSTALLATION

- A. Insert window into rough opening:
 1. Shim side jambs straight.
 2. Inspect window for square, level and plumb.
 3. Fasten window through jamb, shim and into rough opening jamb.
 4. Test and adjust for smooth operation of window.
 5. Ensure weep holes are clear of debris for proper drainage.

3.5 CLEANING

- A. Clean the exterior surface and glass with mild soap and water.

3.6 PROTECTION

- A. Protect installed windows from damage.

END OF SECTION