



SECTION 08 52 00  
ALL WOOD WINDOWS  
JELD-WEN® Sitaline Series

PART 1 1. GENERAL

1.1 SECTION INCLUDES

- A. All Wood Windows: **[Awning windows] [Casement windows] [Double-hung windows] [Horizontal sliding windows (Sitaline EX)] [Radius and geometric windows].**

1.2 REFERENCES

- A. Window and Door Manufacturers Association (WDMA):
1. AAMA/WDMA/CSA 101/I.S.2/A440 – North American Fenestration Standard/Specification for windows, doors, and skylights (NAFS).
  2. WDMA I.S.4; Water Repellent Preservative Non-Pressure treatment for Millwork
- B. National Fenestration Rating Council (NFRC):
1. NFRC 100 - Procedure for Determining Fenestration Product U-Factors.
  2. NFRC 200 - Procedure for Determining Fenestration Product Solar Heat Gain Coefficient and Visible Transmittance at Normal Incidence.
- C. Forest Stewardship Council® (FSC®): FSC Chain-of-Custody Certification.

1.3 SUBMITTALS

- A. Submit under provisions of Section 0 13 00 – Administrative Requirements.
- B. Product Data: Manufacturer's data sheets on each product to be used, including:
1. Preparation instructions and recommendations.
  2. Storage and handling requirements and recommendations.
  3. Installation methods.
- C. Shop Drawings: Submit shop drawings indicating details of construction, flashings and relationship with adjacent construction.
- D. Verification Samples: For each factory-finished product specified, two samples, minimum size 6 inches (150 mm) square, representing actual finishes.
- E. Design Data, Test Reports: Provide manufacturer test reports indicating product compliance with indicated requirements.
- F. Closeout Submittals: Refer to Section 0 17 00 Execution and Closeout Requirements Closeout Submittals.

1.4 QUALITY ASSURANCE

- A. Installer Qualifications: Minimum 2 years installing similar assemblies.
- B. Mock-Up: Provide a mock-up for evaluation of installation techniques and workmanship.
1. Mock-ups shall incorporate surrounding construction, including wall assembly fasteners, flashing, and other related accessories installed in accordance with manufacturer's approved installation methods.
  2. Do not proceed with remaining work until workmanship is approved by Architect.
  3. Modify mock-up as required to produce acceptable work.
  4. At Substantial Completion, approved mockups may become part of completed work.
  5. Demolish mockups and remove from site.
- C. Pre-installation Meeting: Conduct pre-installation meeting on-site two weeks prior to commencement of installation.

## 1.5 DELIVERY, STORAGE, AND HANDLING

- A. Deliver, store and handle materials and products in strict compliance with manufacturer's instructions and recommendations and industry standards.
- B. Deliver and store assembly materials and components in manufacturer's original, unopened, undamaged containers with identification labels intact. Protect from damage.

## 1.6 PROJECT CONDITIONS

- A. Maintain environmental conditions (temperature, humidity, and ventilation) within limits recommended by manufacturer for optimum results. Do not install products under environmental conditions outside manufacturer's recommended limits.

## 1.7 WARRANTY

- A. Manufacturer's Standard Warranty: Assemblies will be free from defects in materials and workmanship from the date of Manufacture for the time periods indicated below:
  - 1. Basic Product Coverage: **[Owner Occupied Single-Family Residence: 20 years] [Commerical (Other than Owner-Occupied Single Family Residence: 20 Years)].**
  - 2. Factory Interior Finish on Wood Products: 1 Year.
    - 1. AuraLast Protection for wood products: **[Owner-Occupied Single-Family Residence: [As long as you own and occupy your residence] [Commercial: 20 years]].**
      - a. Coverage is for wood decay and/or termite damage in pine wood components.
    - 2. Glazing:
      - a. Stress Cracks: 1 Year. Applies to sealed glass units installed in windows and patio doors. Laminated glass and special glazings are excluded. Coverage includes replacement glass and skilled labor necessary to replace the glass. Stress cracks occur when, in the first year after manufacture, the glass develops a crack without sign of impact.
      - b. Accidental Glass Breakage: Applies to Products ordered with double-strength or thicker glass. Not covered: damage attributable to acts of nature (e.g. fire, hurricane, etc.), civil disorder, building settling, structural failures of walls or foundations or improper installation, construction job-site mishaps, storage, or handling. Special glazings and ImpactGard glass are not covered by this glass breakage warranty.
      - c. Special Glazing: 5 years.
      - d. Blinds Between the Glass: 10 years.

## PART 2 PRODUCTS

### 2.1 MANUFACTURERS

- A. Acceptable Manufacturer: JELD-WEN, Inc.; 2645 Silver Crescent Drive, Charlotte, NC 28273; Toll Free Tel: 800-535-3936; Tel: 541-850-2606; Fax: 541-851-4333; Email: [mailto:architectural\\_inquiries@jeld-wen.com](mailto:architectural_inquiries@jeld-wen.com); Web: <http://www.jeld-wen.com>.
- B. Substitutions: Not permitted.
- C. Requests for substitutions will be considered in accordance with provisions of Section 0 16 00 – Product Requirements.

### 2.2 ALL WOOD WINDOWS - GENERAL

- A. Design Requirements:
  - 1. Compliance: Provide assemblies capable of complying with requirements indicated, based on testing manufacturer's units that are representative of those specified.
  - 2. Test Size: In compliance with requirements of AAMA/WDMA/CSA 101/I.S2/A440.
  - 3. Structural Requirements: Provide assemblies complying with requirements indicated:
    - a. Performance Class: As indicated on drawings.
    - b. Performance Class: \_\_\_\_\_.

- c. Performance Grade: As indicated on drawings.
      - d. Performance Grade: \_\_\_\_\_.
    - 4. NFRC Requirements: Provide assemblies complying with the following total window ratings:
      - a. U-Factor: \_\_\_\_\_ in accordance with NFRC 100.
      - b. Solar Heat Gain Coefficient (SHGC): \_\_\_\_\_ in accordance with NFRC 200.
      - c. Visible Transmittance (VT): \_\_\_\_\_ in accordance with NFRC 200.
  - B. Installation Accessories:
    - 1. Flashing: Refer to Section 07600 - Flashing and Sheet Metal.
    - 2. Sealants: Refer to Section 07920 - Joint Sealants.
    - 3. Sealants: Manufacturer recommended sealants to maintain watertight conditions.
  - C. Materials:
    - 1. Exterior Wood: Western Pine, preservative treated with AuraLast® by JELD-WEN, Inc. in accordance with WDMA I.S.4.
    - 2. Interior Wood:
      - a. Material: **[AuraLast Pine (Standard)] [Fir].**
  - D. Finishes:
    - 1. Interior Finishes for Windows:
      - a. Finish: **[Natural (Standard)] [Primed] [Clear Lacquer].**
      - b. Finish: Pre-finished paint finish.
        - 1) Color: **[As Selected by Architect] [Brilliant White] [Desert Sand] [Gunmetal] [Perfect White] [Pure Ivory] [Luxury Bronze] [Rosemary] [Gray Pearl] [Blackest Ink] [Blackest Ink Frame-Perfect White Sash] [Perfect White Frame-Blackest Ink Sash].**
      - c. Finish: Pre-finished stain finish.
        - 1) Color: **[As Selected by Architect] [Fruitwood] [Walnut] [Kodiak] [Greystone] [Warm Toffee] [Black].**
    - 2. Exterior Finishes for Windows:
      - a. Finish: **[Primed (Standard)] [Natural Pine].**
- 2.3 ALL WOOD WINDOW ASSEMBLIES
- A. Basis of Design: Sitrine Series Wood window assemblies as manufactured by JELD-WEN, Inc.
    - 1. Window Type: **[Awning windows] [Casement windows] [Double-hung windows] [Horizontal sliding windows (Sitrine EX)] [Radius and geometric windows].**
  - B. Window Fabrication:
    - 1. Window Type: Awning windows.
      - a. Frame: Corner joints mechanically fastened.
      - b. Sash: Corner joints slot-and-tenoned, and mechanically fastened.
      - c. Glass: Mounted using silicone glazing compound and secured with interior applied profiled wood stops.
        - 1) Glazing Bead: **[Traditional Beveled] [Contemporary Square].**
    - 2. Window Type: Casement windows.
      - a. Frame: Corner joints mechanically fastened.
      - b. Sash: Corner joints slot-and-tenoned, and mechanically fastened.
      - c. Glass: Mounted using silicone glazing compound and secured with interior applied profiled wood stops.
        - 1) Glazing Bead: **[Traditional Beveled] [Contemporary Square].**
    - 3. Window Type: Double-hung windows.
      - a. Frame: Corner joints mechanically fastened.
      - b. Sash: Corner joints slot-and-tenoned, and mechanically fastened.
      - c. Glass: Mounted using silicone glazing compound and secured with interior applied profiled wood stops.
        - Glazing Bead: **[Traditional Beveled] [Contemporary Square].**

- d. Sash Bottom Rail: **[2-1/4 inches (57.2 mm) (Standard)] [3-1/2 inches (88.9 mm)]**.
  - 4. Window Type: Horizontal sliding windows.
    - a. Frame: Corner joints mechanically fastened.
    - b. Sash: Corner joints slot-and-tenoned, and mechanically fastened.
    - c. Glass: Mounted using silicone glazing compound and secured with interior applied profiled wood stops.
      - 1) Glazing Bead: **[Traditional Beveled] [Contemporary Square]**.
  - 5. Window Type: Radius and geometric direct set windows.
    - a. Frame: Corner joints mechanically fastened. Curved members are soft veneers laminated and fasteners secure members together.
    - b. Glass: Mounted using silicone glazing compound and secured with interior applied profiled wood stops.
  - 6. Window Type: Radius and geometric in-sash windows.
    - a. Frame: Corner joints mechanically fastened. Curved members are soft veneers laminated and fasteners secure members together.
    - b. Sash: **[Size units with corner joints slot-and-tenoned, and mechanically fastened] [Custom size units with mitered corner joints]**.
    - c. Glass: Mounted using silicone glazing compound and secured with interior applied profiled wood stops.
      - 1) Glazing Bead: **[Traditional Beveled] [Contemporary Square]**.
- C. Frames:
- 1. Material: Select kiln-dried pine AuraLast treated wood.
  - 2. Casement, Awning and Picture Windows Base Frame: 3-3/4 inch (95 mm).
  - 3. Double-hung Windows Base Frame: 4-9/16 inch (115 mm).
  - 4. Horizontal Sliding Windows Base Frame: 4-9/16 inch (115 mm).
  - 5. Jamb Width: 4-9/16 inches (116 mm).
- D. Sash: Select kiln-dried pine AuraLast treated wood.
- 1. Sash Thickness: 1-7/16 inches (36.5 mm).
- E. Exterior Trim: **[Brickmould (Standard)] [No Exterior Trim] [2 inch (51 mm) Flat Casing] [3-1/2 inch (88.9 mm) Flat Casing] [4-1/2 inch (114.3 mm) Flat Casing] [5-1/2 inch (139.7 mm) Flat Casing] [Adams Casing] [Stucco Brickmould] [Heritage Brickmould] [1x4 w/ Backband Casing] [Bullnose Casing] [RB-3 Casing] [3-1/2 inch (88.9 mm) Side/5-1/2 inch (139.7 mm) Head Casing] [Solid 3 1/2 inch (88.9 mm) Flat Casing] [Solid 5-1/2 inch (139.7 mm) Flat Casing] [Solid 4-1/2 inch (114.3 mm) Flat Casing] [Install Kit Only (No Trim/No Fin) (Available only for Pocket Frame applications)]**.
- 1. Sill Angle: **[14 degree] [0 Degree] [8 Degree]**.
  - 2. Sill Nosing: **[Standard Sill Nosing (Standard)] [2 inches (51 mm)]**.
  - 3. Sill Horns: **[No Sill Horn] [Extended Sill Horns]**.
- F. In-Sash Interior Radius Trim:
- 1. Material: Pine.
  - 2. Pattern: As scheduled and indicated on Drawings.
  - 3. Casing: As scheduled and indicated on Drawings.
- G. Weatherstripping:
- 1. Awning Windows: Flexible hinged leaf applied to sash and foam filled bulb at full perimeter of frame.
  - 2. Casement Windows: Flexible hinged leaf applied to sash and foamed filled bulb at full perimeter of frame.
  - 3. Double-hung Windows: Dual bulb at head and sill, thermoplastic rubber bulb at check rail, rigid vinyl water stops at sill.
    - a. Concealed Jamb Track Color: **[Tan (Standard)] [White]**.
  - 4. Horizontal Sliding: Thermoplastic rubber bulb at checkrail and side rails, polyurethane hinged leaf at side jamb and sill track, rigid vinyl water stops at sill.

5. Radius and Geometric Windows: Flexible hinged leaf applied to top of sash and thermoplastic rubber bulb at full perimeter of frame.
- H. Window Hardware:
1. Awning Windows:
    - a. Hinges: Sliding steel reinforced nylon shoe in stainless steel track.
    - b. Stainless Steel Hardware: **[Standard Operator/Hinge] [Stainless Steel Operator/Hinge]**.
    - c. Handle: Nesting Crank handle (Standard).
      - 1) Finish: **[As selected by Architect] [Chestnut Bronze] [Desert Sand] [White] [Polished Brass] [Antique Brass] [Brushed Chrome] [Oil Rubbed Bronze] [Gloss Black] [Matte Black] [Satin Nickel]**.
    - d. No Handle.
  2. Casement Windows:
    - a. Stainless Steel Hardware: **[Standard Operator/Hinge] [Stainless Steel Operator/Hinge]**.
    - b. Egress Hinge: **[Standard Hinge (Standard)] [Butt Hinge, Single Arm Operator]**.
    - c. Handle: Nesting Crank handle (Standard).
      - 1) Finish: **[As selected by Architect] [Chestnut Bronze] [Desert Sand] [White] [Polished Brass] [Antique Brass] [Brushed Chrome] [Oil Rubbed Bronze] [Gloss Black] [Matte Black] [Satin Nickel]**.
    - d. No Handle.
  3. Double-Hung Windows:
    - a. Balance: Dual block and tackle.
    - b. Lock: Recessed cam action.
    - c. Finish: **[As selected by Architect] [Chestnut Bronze] [Desert Sand] [White] [Antique Brass] [Brushed Chrome] [Oil Rubbed Bronze] [Gloss Black] [Matte Black] [Satin Nickel]**.
  4. Horizontal Sliding Windows:
    - a. Sliding System: High-raised polyvinyl chloride sill track and compressible resilient polyfoam backed head track.
    - b. Sash Pull: Recessed.
    - c. Sash Lock: Recessed cam action.
    - d. Finish: **[As selected by Architect] [Chestnut Bronze] [Desert Sand] [White] [Antique Brass] [Brushed Chrome] [Oil Rubbed Bronze] [Gloss Black] [Matte Black] [Satin Nickel]**.
  5. Radius and Geometric Windows: None.
- I. Glazing for Windows:
1. Glazing: Insulated glass.
    - a. Description: Two panes of glass utilizing continuous roll formed stainless steel spacer and dual seal sealants.
    - b. Glass Type: **[Annealed (Standard)] [Tempered] [Tempered In/Annealed Out]**.
    - c. Overall Nominal Thickness: 3/4 inch (19 mm).
    - d. Glass Color: **[As selected by Architect] [SunResist™ (Standard)] [SunStable™] [SunFlow™] [SunStable™ with HeatSave™] [SunResist™ with HeatSave™] [Sunflow™ with Heatsave™]**.
    - e. Glass Protection: Plastic preserve film on interior and exterior of glass.
    - f. Neat Glass: **[No (Standard)] [Neat]**.
    - g. Glass Options: **[Argon] [High Altitude (Above 3500 Feet Elevation)]**.
    - h. Spacer Color: **[Black (Standard)] [Silver]**.
  2. Glazing Type: Blinds Between the Glass.
    - a. Description: Blink Blinds + Glass blinds-between-glass insulated glazing unit with enclosing glass edges and internal blind operating mechanism.
    - b. No Internal Blinds (Standard).

- c. Blink Blinds:
    - 1) Color: **[White] [Tan] [Espresso] [Silver Moon] [Slate Gray] [Sand]**.
  - d. Blind Operator Position: **[High (Standard)] [Low]**.
  - e. Glass Type: **[Annealed] [Tempered]**.
  - f. Glass Color: SunStable™.
  - g. Neat Glass: No.
- J. Exterior Insect Screens:
- 1. Material: Black BetterVue fiberglass screen cloth (18 x 18) set in painted roll formed or extruded aluminum frame.
    - a. Frame Color: **[As selected by Architect] [Brilliant White] [Desert Sand] [Chestnut Bronze] [French Vanilla] [Hartford Green] [Mesa Red] [Black] [Silver] [Steele Gray] [Dark Chocolate] [Hunter Green] [Heirloom White] [Smoke] [Bone White] [Ivory] [Luxury Bronze] [Mocha Cream] [Sea Foam] [Stone] [Flagstone] [Cocoa] [Cranberry] [Surf] [Moss] [Stormy] [Admiral] [Navy]**.
  - 2. Material: Black UltraVue fiberglass screen cloth (19 x 19 mesh) set in a painted roll formed aluminum frame.
    - a. Frame Color: **[As selected by Architect] [Brilliant White] [Desert Sand] [Chestnut Bronze] [French Vanilla] [Hartford Green] [Mesa Red] [Black] [Silver] [Steele Gray] [Dark Chocolate] [Hunter Green] [Heirloom White] [Smoke] [Bone White] [Ivory] [Luxury Bronze] [Mocha Cream] [Sea Foam] [Stone] [Flagstone] [Cocoa] [Cranberry] [Surf] [Moss] [Stormy] [Admiral] [Navy]**.
  - 3. Material: **[Charcoal (Standard)] [Silver]** aluminum screen cloth (18 by 16 mesh) set in painted roll formed aluminum frame.
    - a. Frame Color: **[As selected by Architect] [Brilliant White] [Desert Sand] [Chestnut Bronze] [French Vanilla] [Hartford Green] [Mesa Red] [Black] [Silver] [Steele Gray] [Dark Chocolate] [Hunter Green] [Stone] [Flagstone] [Cocoa] [Cranberry] [Surf] [Moss] [Stormy] [Admiral] [Navy]**.
  - 4. No Screen
  - 5. Screen Style: **[Full Screen (Standard)] [Half Screen]**.
- K. Combination Storm/Screens:
- 1. Material: Extruded aluminum with twin storm panels and charcoal fiberglass screen cloth (18 by 16 mesh) set in painted extruded aluminum frame.
  - 2. Frame Color: **[Brilliant White (Standard)] [Chestnut Bronze] [Hartford Green] [Dark Chocolate]**.
- L. Interior Insect Screens:
- 1. Material: Black BetterVue fiberglass screen cloth (18 x 18) set in painted roll formed or extruded aluminum frame.
    - a. Finish: **[As selected by Architect] [Brilliant White] [Desert Sand] [Chestnut Bronze] [French Vanilla] [Black] [Silver] [Steele Gray]**.
  - 2. Material: Black UltraVue fiberglass screen cloth (19 x 19 mesh) set in a painted roll formed aluminum frame.
    - a. Finish: **[As selected by Architect] [Brilliant White] [Desert Sand] [Chestnut Bronze] [French Vanilla] [Black] [Silver] [Steele Gray]**.
  - 3. Material: **[Charcoal (Standard)] [Silver]** aluminum screen cloth (18 by 16 mesh) set in painted roll formed aluminum frame.
    - a. Finish: **[As selected by Architect] [Brilliant White] [Desert Sand] [Chestnut Bronze] [French Vanilla] [Black] [Silver] [Steele Gray]**.
  - 4. No Screen.
- M. Grilles:
- 1. Type: Simulated Divided Lites (SDL).
    - a. Exterior Muntins:

- b. Material: Extruded aluminum permanently applied to exterior of insulating glass unit.
    - 1) Profile: Beaded.
      - (a) Width: **[7/8 inch (22 mm)] [1-1/8 inches (28.5 mm)] [2-5/16 inches (59 mm)].**
    - 2) Profile: Putty.
      - (a) Width: **[5/8 inch (16 mm)] [7/8 inch (22 mm)] [1-1/8 inches (28.5 mm)] [2-5/16 inches (59 mm)].**
    - 3) Profile: Contemporary.
      - (a) Width: **[5/8 inch (16 mm)] [7/8 inch (22 mm)] [1-1/8 inch (28.5 mm)] [2-5/16 inch (58.7 mm)].**
    - 4) Pattern: As scheduled and indicated on Drawings.
  - c. Grid Finish: **[Light Bronze (Standard)] [Silver].**
  - d. Interior Muntins:
    - 1) Material: Clear pine permanently bonded to interior of insulating glass unit.
    - 2) Interior Bar Profile: **[Traditional Bead Bar] [Putty Bar] [Contemporary].**
  - e. Finish: **[As selected by Architect] [Primed Wood] [Natural Pine] [Brilliant White] [Desert Sand] [Chestnut Bronze] [French Vanilla] [Hartford Green] [Mesa Red] [Black] [Silver] [Dark Chocolate].**
2. Type: Grilles Between the Glass (GBG).
- a. Material: Made of roll formed aluminum suspended within the air cavity.
  - b. Profile: Flat.
    - 1) Width: 5/8 inch (15.9 mm).
      - (a) Finish: **[As selected by Architect] [Brilliant White] [Desert Sand] [Chestnut Bronze] [French Vanilla] [Hartford Green] [Mesa Red] [Dark Chocolate] [Black].**
  - c. Profile: Contour.
    - 1) Width: **[23/32 inch (18.25 mm)].**
      - (a) Finish: **[As selected by Architect] [Brilliant White] [Desert Sand] [Chestnut Bronze] [French Vanilla] [Hartford Green] [Mesa Red] [Dark Chocolate] [Black] [White Ext./Desert Sand Int.] [Desert Sand Ext./White Int.] [White Ext./Chestnut Bronze Int.] [Chestnut Bronze Ext./White Int.] [White Ext./Black Int.] [Black Ext./White Int.] [White Ext./French Vanilla Int.] [French Vanilla Ext./White Int.] [White Ext./Hartford Green Int.] [Hartford Green Ext./White Int.] [Mesa Red Ext./Black Int.] [Mesa Red Ext./White Int.] [White Ext./Dark Chocolate Int.] [Dark Chocolate Ext./White Int.].**
    - 2) Width: **[1 inch (25.4 mm)].**
      - (a) Finish: **[As selected by Architect] [Brilliant White] [Desert Sand] [Chestnut Bronze] [French Vanilla] [Hartford Green] [Mesa Red] [Dark Chocolate] [Black] [White Ext./Desert Sand Int.] [Desert Sand Ext./White Int.].**
  - d. Pattern: As scheduled and indicated on Drawings.

## PART 3 EXECUTION

### 3.1 EXAMINATION AND PREPARATION

- A. Inspect and prepare openings and substrates using the methods recommended by the manufacturer for achieving best result for the substrates under project conditions.
  - 1. Inspect assembly components prior to installation.
  - 2. Verify rough opening conditions are within recommended tolerances.
  - 3. Form a sill pan in accordance with manufacturer's recommendations.
  - 4. Prepare assembly components for installation in accordance with manufacturer's recommendations.

- B. Do not proceed with installation until openings and substrates have been prepared using the methods recommended by the manufacturer and deviations from manufacturer's recommended tolerances are corrected. Commencement of installation constitutes acceptance of conditions.
- C. If preparation is the responsibility of another installer, notify Architect in writing of deviations from manufacturer's recommended installation tolerances and conditions.

### 3.2 INSTALLATION

- A. Install assemblies in accordance with manufacturer's installation guidelines and recommendations including the following.
- B. Installation of Windows With Nailing Fins: Insert windows into rough opening.
  - 1. Shim side jambs straight.
  - 2. Inspect window for square, level and plumb.
  - 3. Fasten window through nailing fins around entire window.
  - 4. Test and adjust for smooth operation of window.
  - 5. Set all nails below wood surface.

### 3.3 FIELD QUALITY CONTROL

- A. Manufacturers' Field Services: Perform field inspections as recommended by manufacturer.

### 3.4 CLEANING AND PROTECTION

- A. Clean the exterior surface and glass with mild soap and water.
- B. Protect installed windows from damage.
- C. Remove and dispose of protective film from glass; touch-up, repair or replace damaged components and assemblies before Substantial Completion.

END OF SECTION