SECTION 08 52 13.10

ALUMINUM-CLAD-WOOD WINDOWS AND PATIO DOORS

JELD-WEN Siteline Series

Display hidden notes to specifier. (Don't know how? [Click Here](http://www.arcat.com/sd/display_hidden_notes.shtml))

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\*\* NOTE TO SPECIFIER \*\* JELD-WEN, Inc.; aluminum-clad-wood windows and patio doors.  
.  
This section is based on the products of JELD-WEN, Inc., which is located at:  
2645 Silver Crescent Dr. Suite 400  
Charlotte, NC 28273   
Toll Free Tel: 800-535-3936  
Tel: 541-850-2606  
Fax: 541-851-4333  
Email: [request info (Architectural\_Inquiries@jeld-wen.com)](http://admin.arcat.com/users.pl?action=UserEmail&company=JELD-WEN,+Inc.&coid=33445&rep=&fax=541-851-4333&message=RE:%20Spec%20Question%20(08556jwi):%20%20&mf=)  
Web: [www.jeld-wen.com](http://www.jeld-wen.com)   
  
 [ [Click Here](http://www.arcat.com/arcatcos/cos33/arc33445.html) ] for additional information.  
  
As a JELD-WEN customer, you can count on us to provide reliable products and service. We are a comprehensive source for dependable wood, vinyl and aluminum windows; wood and wood composite interior doors; and wood, steel, engineered wood and fiberglass exterior doors.

1. GENERAL
   1. SECTION INCLUDES

\*\* NOTE TO SPECIFIER \*\* Delete items below not required for project.

* + 1. Aluminum-Clad-Wood Windows and Patio Doors:
       1. Awning windows.
       2. Casement windows.
       3. Double-hung windows.
       4. Horizontal sliding windows.
       5. Radius and geometric windows.
       6. In-swing patio doors.
       7. Out-swing patio doors.
       8. Sliding patio doors.
  1. REFERENCES

\*\* NOTE TO SPECIFIER \*\* Delete references from the list below that are not actually required by the text of the edited section.

* + 1. American Architectural Manufacturers Association (AAMA):
       1. AAMA/WDMA/CSA 101/I.S.2/A440 - North American Fenestration Standard/Specification for windows, doors, and skylights (NAFS).
    2. 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.
    3. Window and Door Manufacturers Association (WDMA):
       1. WDMA I.S.4 - Industry Specification for Preservative Treatment for Millwork.
  1. SUBMITTALS
     1. Submit under provisions of Section 01 30 00 - Administrative Requirements.
     2. 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.
     3. Shop Drawings: Submit shop drawings indicating details of construction, flashings and relationship with adjacent construction.

\*\* NOTE TO SPECIFIER \*\* Delete selection samples if colors have already been selected.

* + 1. Selection Samples: For each factory-finished product specified, two complete sets of color chips representing manufacturer's full range of available finishes.
    2. Verification Samples: For each factory-finished product specified, two samples, minimum size 6 inches (150 mm) square, representing actual finishes.

\*\* NOTE TO SPECIFIER \*\* Delete Design Data, Test Reports submittal requirements when a proprietary specification is used and can be held. Retain Design Data, Test Reports submittal requirement when other products may be submitted as substitution.

* + 1. Design Data, Test Reports: Provide manufacturer test reports indicating product compliance with indicated requirements.
    2. Closeout Submittals: Refer to Section 01 70 00 - Execution and Closeout Requirements Closeout Submittals.
  1. QUALITY ASSURANCE
     1. Installer Qualifications: Minimum 2 years installing similar assemblies.

\*\* NOTE TO SPECIFIER \*\* Include a mock-up if the project size and/or quality warrant taking such a precaution. The following is one example of how a mock-up on a large project might be specified. When deciding on the extent of the mock-up, consider all the major different types of work on the project.

* + 1. 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.

\*\* NOTE TO SPECIFIER \*\* Delete one of the two following subparagraphs.

* + - 1. At Substantial Completion, approved mockups may become part of completed work.
      2. Demolish mockups and remove from site.
    1. Pre-installation Meeting: Conduct pre-installation meeting on-site two weeks prior to commencement of installation.
  1. DELIVERY, STORAGE, AND HANDLING
     1. Deliver, store and handle materials and products in strict compliance with manufacturer's instructions and recommendations and industry standards.
     2. Deliver and store assembly materials and components in manufacturer's original, unopened, undamaged containers with identification labels intact. Protect from damage.
  2. PROJECT CONDITIONS
     1. 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.
  3. WARRANTY
     1. 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:

\*\* NOTE TO SPECIFIER \*\* Delete product types not required.

* + - 1. Patio Door Units: 20 years.
      2. Window Units: 20 years.
      3. Clad Finishes: 10 years against peeling, checking, cracking caulk or color change.
      4. AAMA 2605 Clad Finishes: 20 years against peeling, checking, cracking or color change.

\*\* NOTE TO SPECIFIER \*\* Specialty glazing includes patterned and textured glass. Insulated glass that incorporates a specialty glass may be eligible for an extended warranty, but requires input from the manufacturer. Contact a JELD-WEN representative to discuss design options and their effect on the warranty. Delete glass types not required.

* + - 1. Glazing:
         1. Insulated Glass: 20 years against seal breakage.
         2. Laminated Glass: 5 years against delamination.
         3. Specialty Glazing: 5 years.

1. PRODUCTS
   1. MANUFACTURERS
      1. Acceptable Manufacturer: JELD-WEN, Inc., which is located at: 2645 Silver Crescent Dr. Suite 400; Charlotte, NC 28273 ; Toll Free Tel: 800-535-3936; Tel: 541-850-2606; Fax: 541-851-4333; Email: [request info (Architectural\_Inquiries@jeld-wen.com)](http://admin.arcat.com/users.pl?action=UserEmail&company=JELD-WEN,+Inc.&coid=33445&rep=&fax=541-851-4333&message=RE:%20Spec%20Question%20(08556jwi):%20%20&mf=); Web: [www.jeld-wen.com](http://www.jeld-wen.com)

\*\* NOTE TO SPECIFIER \*\* Delete one of the following two paragraphs; coordinate with requirements of Division 1 section on product options and substitutions.

* + 1. Substitutions: Not permitted.
    2. Requests for substitutions will be considered in accordance with provisions of Section 01 60 00 - Product Requirements.
  1. ALUMINUM-CLAD WOOD WINDOWS AND PATIO DOORS - GENERAL
     1. Design Requirements:
        1. Compliance: Provide assemblies capable of complying with requirements indicated, based on testing manufacturer's units that are representative of those specified.

\*\* NOTE TO SPECIFIER \*\* The following subparagraph applies only to windows. Delete if not required.

* + - 1. Test Size: In compliance with requirements of AAMA/WDMA/CSA 101/I.S2/A440.

\*\* NOTE TO SPECIFIER \*\* Include patio door design pressure (DP) ratings as part of the performance requirements. Required DP will vary dependent on project site, the location in the building and door size. Coordinate DP with the Structural Engineer. DP ratings and related patio door size and style are available at www.jeld-wen.com or by contacting a JELD-WEN representative. Insert value or refer to drawing information.

* + - 1. Structural Requirements: Provide assemblies complying with requirements indicated:

\*\* NOTE TO SPECIFIER \*\* Delete performance class not required.

* + - * 1. Performance Class: As indicated on drawings.
        2. Performance Class: \_\_\_\_\_\_\_\_.

\*\* NOTE TO SPECIFIER \*\* Delete performance grade not required.

* + - * 1. Performance Grade: As indicated on drawings.
        2. Performance Grade: \_\_\_\_\_\_\_\_.

\*\* NOTE TO SPECIFIER \*\* Include NFRC ratings as part of the performance requirements. NFRC ratings qualifying for the Energy Star program are based on the performance of whole assembly. Qualifying assemblies vary to fit the needs of different regions throughout the country. NFRC ratings and related JELD-WEN size and styles are available at www.jeld-wen.com or by contacting a JELD-WEN representative. Insert values or the phrase ' As scheduled and indicated on Drawings' as applicable. The following subparagraph applies only to windows. Delete if not required.

* + - 1. NFRC Requirements: Provide assemblies complying with the following total window ratings:
         1. U-Factor: \_\_\_\_\_\_\_\_ in accordance with NFRC 100.
         2. Solar Heat Gain Coefficient (SHGC): \_\_\_\_\_\_\_\_ in accordance with NFRC 200.
         3. Visible Transmittance (VT): \_\_\_\_\_\_\_\_ in accordance with NFRC 200.
    1. Installation Accessories:

\*\* NOTE TO SPECIFIER \*\* Accessories compatible with windows, patio doors and required installation may be specified in this section or in related sections. Coordinate with related sections so as not to duplicate information.

* + - 1. Flashing: Refer to Section 07 60 00 - Flashing and Sheet Metal.

\*\* NOTE TO SPECIFIER \*\* Delete sealant options not required.

* + - 1. Sealants: OSI Sealants by Henkel Corporation.
      2. Sealants: Refer to Section 07 91 26 - Joint Fillers.
      3. Sealants: Manufacturer recommended sealants to maintain watertight conditions.
    1. Materials:
       1. Exterior Cladding: Extruded aluminum.

\*\* NOTE TO SPECIFIER \*\* AuraLast is a trademarked preservative treatment by JELD-WEN and is distinguished from traditional preservation methods by its minimum treatment penetration of 92 percent.

* + - 1. Exterior Wood: Western Pine, preservative treated with AuraLast by JELD-WEN, Inc. in accordance with WDMA I.S.4.
      2. Interior Wood:

\*\* NOTE TO SPECIFIER \*\* Delete materials not required.

* + - * 1. Material: Standard, Western Pine.
        2. Material: Clear Alder.
        3. Material: Mixed Grain Douglas Fir.
    1. Finishes:
       1. Interior Finishes for Windows:

\*\* NOTE TO SPECIFIER \*\* Delete finishes not required.

* + - * 1. Finish: Standard, unfinished.
        2. Finish: Optional primed finish.
        3. Finish: Optional pre-finished paint.

\*\* NOTE TO SPECIFIER \*\* Delete colors not required.

Color: As selected by Architect.

Color: Brilliant White.

Color: Ivory.

Color: Desert Sand.

* + - * 1. Finish: Optional pre-finished stain finish.

\*\* NOTE TO SPECIFIER \*\* Delete colors not required.

Color: As selected by Architect.

Color: Cider.

Color: Cordovan.

Color: Fruitwood.

Color: Walnut.

Color: Wheat.

* + - * 1. Finish: Optional pre-finished clear lacquer finish.
      1. Exterior Finishes for Windows:

\*\* NOTE TO SPECIFIER \*\* Delete finishes not required.

* + - * 1. Standard Color Finish:

\*\* NOTE TO SPECIFIER \*\* Delete colors not required.

Color: As selected by Architect.

Color: Brilliant White.

Color: Chestnut Bronze.

Color: Desert Sand.

Color: French Vanilla.

Color: Hartford Green.

Color: Mesa Red.

Color: Black.

Color: Arctic Silver.

Color: Dark Chocolate.

* + - * 1. Optional Color Finish:

\*\* NOTE TO SPECIFIER \*\* Delete colors not required.

Color: As selected by Architect.

Color: Hunter Green.

Color: Redwood.

Color: Heirloom White.

Color: Sage Brown.

Color: Smoke.

Color: Bone White.

Color: Cascade.

Color: Dark Buckskin.

Color: Ivory.

Color: Luxury Bronze.

Color: Mocha Cream.

Color: Sea Foam.

Color: Steele Grey.

* + - * 1. Anodized Finish:

\*\* NOTE TO SPECIFIER \*\* Delete colors not required.

Color: As selected by Architect.

Color: Clear Anodized.

Color: Champagne Anodized.

Color: Light Bronze Anodized.

Color: Medium Bronze Anodized.

Color: Dark Bronze Anodized.

Color: Extra Dark Bronze Anodized.

Color: Black Anodized.

* + - * 1. AAMA 2605 PVDF Optional Color Finish for Windows:

\*\* NOTE TO SPECIFIER \*\* Delete colors not required.

Color: As selected by Architect.

Color: Brilliant White.

Color: Chestnut Bronze.

Color: Desert Sand.

Color: French Vanilla.

Color: Hartford Green.

Color: Mesa Red.

Color: Black.

Color: Arctic Silver.

Color: Dark Chocolate.

Color: Hunter Green.

Color: Redwood.

Color: Heirloom White.

Color: Sage Brown.

Color: Smoke.

Color: Bone White.

Color: Cascade.

Color: Dark Buckskin.

Color: Ivory.

Color: Luxury Bronze.

Color: Mocha Cream.

Color: Sea Foam.

Color: Steele Grey.

Color: Custom Color.

* + - 1. Interior Finishes for Patio Doors:

\*\* NOTE TO SPECIFIER \*\* Delete finishes not required.

* + - * 1. Finish: Standard, unfinished.
        2. Finish: Optional primed finish.
        3. Finish: Optional pre-finished paint finish.

\*\* NOTE TO SPECIFIER \*\* Delete colors not required.

Color: As selected by Architect.

Color: Brilliant White.

Color: Desert Sand.

Color: Ivory.

* + - * 1. Finish: Optional pre-finished stain finish.

\*\* NOTE TO SPECIFIER \*\* Delete colors not required.

Color: As selected by Architect.

Color: Cider.

Color: Cordovan.

Color: Fruitwood.

Color: Walnut.

Color: Wheat.

* + - * 1. Finish: Optional pre-finished clear lacquer finish.
      1. Exterior Finishes for Patio Doors:

NOTE TO SPECIFIER \*\* Delete finishes not required.

* + - * 1. Standard Color Finish:

\*\* NOTE TO SPECIFIER \*\* Delete colors not required.

Color: As selected by Architect.

Color: Brilliant White.

Color: Chestnut Bronze.

Color: Desert Sand.

Color: French Vanilla.

Color: Hartford Green.

Color: Mesa Red.

Color: Black.

Color: Arctic Silver.

Color: Dark Chocolate.

* + - * 1. Optional Color Finish:

\*\* NOTE TO SPECIFIER \*\* Delete colors not required.

Color: As selected by Architect.

Color: Hunter Green.

Color: Redwood.

Color: Heirloom White.

Color: Sage Brown.

Color: Smoke.

Color: Bone White.

Color: Cascade.

Color: Dark Buckskin.

Color: Ivory.

Color: Luxury Bronze.

Color: Mocha Cream.

Color: Sea Foam.

Color: Steele Grey.

* + - * 1. Anodized Finish:

\*\* NOTE TO SPECIFIER \*\* Delete colors not required.

Color: As selected by Architect.

Color: Clear Anodized.

Color: Champagne Anodized.

Color: Light Bronze Anodized.

Color: Medium Bronze Anodized.

Color: Dark Bronze Anodized.

Color: Extra Dark Bronze Anodized.

Color: Black Anodized.

* + - * 1. AAMA 2605 PVDF Optional Color Finish for Patio Doors:

\*\* NOTE TO SPECIFIER \*\* Delete colors not required.

Color: As selected by Architect.

Color: Brilliant White.

Color: Chestnut Bronze.

Color: Desert Sand.

Color: French Vanilla.

Color: Hartford Green.

Color: Mesa Red.

Color: Black.

Color: Arctic Silver.

Color: Dark Chocolate.

Color: Hunter Green.

Color: Redwood.

Color: Heirloom White.

Color: Sage Brown.

Color: Smoke.

Color: Bone White.

Color: Cascade.

Color: Dark Buckskin.

Color: Ivory.

Color: Luxury Bronze.

Color: Mocha Cream.

Color: Sea Foam.

Color: Steele Grey.

Color: Custom Color.

\*\* NOTE TO SPECIFIER \*\* Delete if not required. Also delete options in Part 1 and 3 of this section corresponding to products selected.

* 1. ALUMINUM-CLAD-WOOD WINDOW ASSEMBLIES (SITELINE)
     1. Basis of Design: Siteline Series aluminum-clad-wood windows assemblies as manufactured by JELD-WEN, Inc.

\*\* NOTE TO SPECIFIER \*\* Delete window types not required. Also delete options in the following paragraphs corresponding to window type selection, as described in the notes to specifier.

* + - 1. Window Type: Awning windows.
      2. Window Type: Casement windows.
      3. Window Type: Double-hung windows.
      4. Window Type: Horizontal sliding windows (Siteline EX).
      5. Window Type: Radius and geometric windows.
    1. Window Fabrication:

\*\* NOTE TO SPECIFIER \*\* Delete options for fabrication corresponding to window types not required.

* + - 1. Window Type: Awning windows.
         1. Frame: Head corner joints mechanically fastened over silicone injected nylon corner key. Sill corner joints sealed with foam gasket and screw boss construction.
         2. Sash: Corner joints slot-and-tenoned, and mechanically fastened.
         3. Glass: Mounted using silicone glazing compound and secured with interior applied profiled wood stops.

\*\* NOTE TO SPECIFIER \*\* Delete glazing bead not required.

Glazing Bead: Traditional Beveled.

Glazing Bead: Contemporary Square.

* + - 1. Window Type: Casement windows.
         1. Frame: Head corner joints mechanically fastened over silicone injected nylon corner key. Sill corner joints sealed with foam gasket and screw boss construction.
         2. Sash: Corner joints slot-and-tenoned, and mechanically fastened.
         3. Glass: Mounted using silicone glazing compound and secured with interior applied profiled wood stops.

\*\* NOTE TO SPECIFIER \*\* Delete glazing bead not required.

Glazing Bead: Traditional Beveled.

Glazing Bead: Contemporary Square.

* + - 1. Window Type: Double-hung windows.
         1. Frame: Head corner joints mechanically fastened over silicone injected nylon corner key. Sill corner joints sealed with foam gasket and screw boss construction.
         2. Sash: Corner joints slot-and-tenoned, and mechanically fastened.
         3. Glass: Mounted using silicone glazing compound and secured with interior applied profiled wood stops.

\*\* NOTE TO SPECIFIER \*\* Delete glazing bead not required.

Glazing Bead: Traditional Beveled.

Glazing Bead: Contemporary Square.

\*\* NOTE TO SPECIFIER \*\* Delete sash bottom rail not required.

* + - * 1. Sash Bottom Rail: Standard 2-1/4 inches (57.2 mm)
        2. Sash Bottom Rail: Optional 3-1/2 inches (88.9 mm)
      1. Window Type: Horizontal sliding windows.
         1. Frame: Head corner joints mechanically fastened over silicone injected nylon corner key. Sill corner joints sealed with foam gasket and screw boss construction.
         2. Sash: Corner joints slot-and-tenoned, and mechanically fastened.
         3. Glass: Mounted using silicone glazing compound and secured with interior applied profiled wood stops.

\*\* NOTE TO SPECIFIER \*\* Delete glazing bead not required.

Glazing Bead: Traditional Beveled.

Glazing Bead: Contemporary Square.

* + - 1. Window Type: Radius and geometric windows.
         1. Frame: Head corner joints mechanically fastened over silicone injected nylon corner key. Sill corner joints sealed with foam gasket and screw boss construction.
         2. Glass: Mounted using silicone glazing compound and secured with interior applied profiled wood stops.
    1. Frames:
       1. Material: Select kiln-dried pine AuraLast treated wood.

\*\* NOTE TO SPECIFIER \*\* Delete frames not required.

* + - 1. Casement, Awning and Picture Windows Base Frame: 3-3/16 inch (81 mm).
      2. Double-Hung Windows Base Frame: 4-9/16 inches (115 mm)
      3. Horizontal Sliding Windows Base Frame: 4-9/16 inches (115 mm)
      4. Jamb Width: 4-9/16 inches (116 mm).
      5. Cladding: 0.050 inch (1.27 mm) extruded aluminum.
    1. Sashes: Select kiln-dried pine AuraLast treated wood.

\*\* NOTE TO SPECIFIER \*\* Delete Sash Thickness when only Radius and geometric window units are specified.

* + - 1. Sash Thickness: 1-7/16 inches (36.5 mm)
      2. Cladding: 0.045 inch (1.2 mm) extruded aluminum.
    1. Exterior Trim:
       1. Nailing Fin and Drip Cap: Integral extruded aluminum on all four sides of frame.
       2. As selected from Manufacturer's standard offering.

\*\* NOTE TO SPECIFIER \*\* Select casing options when construction conditions or aesthetics require inclusion. Utilize the following trims for indicated applications - Brickmould in conjunction with masonry veneers, Flat Casing for narrow, Adams Casing for wider aesthetic conditions. Delete casings not required.

* + - 1. Casing, Standard: 2 inch (51 mm) Brickmould.
      2. Casing, Optional: 3-1/2 inches (89 mm) Flat casing.
      3. Casing, Optional: Adams casing.
      4. Casing, Optional: 2 inch (51 mm) Beaded brickmould.

\*\* NOTE TO SPECIFIER \*\* Delete sill nosings not required.

* + - 1. Sill Nosing: Standard.
      2. Sill Nosing: 1/2 inch (12 mm).
      3. Sill Nosing: 1 inch (25 mm).
      4. Sill Nosing: 2 inches (51 mm).

\*\* NOTE TO SPECIFIER \*\* Delete interior radius trim when Radius window units are not required.

* + 1. In-Sash Interior Radius Trim:

\*\* NOTE TO SPECIFIER \*\* Delete material not required.

* + - 1. Material: Pine.
      2. Material: Oak.
      3. Pattern: As scheduled and indicated on Drawings.
      4. Casing: As scheduled and indicated on Drawings.
    1. Factory Applied Extension Jambs:

\*\* NOTE TO SPECIFIER \*\* Delete configuration not required.

* + - 1. Configuration: On four sides of frame interior, 21/32 inch (16.7 mm) up to 12 inches (304.8 mm).
      2. Configuration: On 3 sides of frame interior in preparation for stool by others.
    1. Weatherstripping:

\*\* NOTE TO SPECIFIER \*\* Delete options for fabrication corresponding to window types not required

* + - 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 foam 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.

\*\* NOTE TO SPECIFIER \*\* Delete jamb liner track color not required

* + - * 1. Concealed Jamb Track Color: Standard, Tan.
        2. Concealed Jamb Track Color : Optional color, White.
      1. 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.
      2. Radius and Geometric Windows: Flexible hinged leaf applied to top of sash and thermoplastic rubber bulb at full perimeter of frame.

\*\* NOTE TO SPECIFIER \*\* In applications where both operable and non-operable casement or awning windows are desired, to maintain the aesthetic profile specify "stationary" awning or casement units.

* + 1. Window Hardware:

\*\* NOTE TO SPECIFIER \*\* Specifier needs to carefully select desired options, many have nested options throughout. Delete options for hardware corresponding to patio door types not required.

* + - 1. Awning Windows:
         1. Hinges: Sliding steel reinforced nylon shoe in stainless steel track.
         2. Operator: Roto type, with single pull scissor arm and hardened steel worm gears.
         3. Handle Profile: Standard, folding handle.

\*\* NOTE TO SPECIFIER \*\* Delete finishes not required.

* + - * 1. Finish: As selected by Architect.
        2. Finish: Chestnut Bronze.
        3. Finish: Desert Sand.
        4. Finish: White
        5. Finish: Polished Brass.
        6. Finish: Antique Brass.
        7. Finish: Brushed Chrome.
        8. Finish: Oil Rubbed Bronze.
        9. Finish: Black Powder Coat.
        10. Finish: Satin Nickel.
      1. Casement Windows:
         1. Hinges: Concealed.
         2. Operator: Single arm roto type.
         3. Handle Profile: Standard, folding handle.

\*\* NOTE TO SPECIFIER \*\* Delete finishes not required.

* + - * 1. Finish: As selected by Architect.
        2. Finish: Chestnut Bronze.
        3. Finish: Desert Sand.
        4. Finish: White
        5. Finish: Polished Brass.
        6. Finish: Antique Brass.
        7. Finish: Brushed Chrome.
        8. Finish: Oil Rubbed Bronze.
        9. Finish: Black Powder Coat.
        10. Finish: Satin Nickel.
      1. Double-Hung Windows:
         1. Balance: Dual block and tackle.

\*\* NOTE TO SPECIFIER \*\* Delete lock if not required.

* + - * 1. Lock: Standard recessed cam action.

\*\* NOTE TO SPECIFIER \*\* Delete finishes not required.

* + - * 1. Finish: As selected by Architect.
        2. Finish: Chestnut Bronze.
        3. Finish: Desert Sand.
        4. Finish: White
        5. Finish: Polished Brass.
        6. Finish: Antique Brass.
        7. Finish: Brushed Chrome.
        8. Finish: Oil Rubbed Bronze.
        9. Finish: Black Powder Coat.
        10. Finish: Satin Nickel.
      1. Horizontal Sliding Windows:
         1. Sliding System: High-raised polyvinyl chloride sill track, and compressible resilient polyfoam backed head track.
         2. Sash Pull: Recessed.
         3. Sash Lock: Recessed cam action.

\*\* NOTE TO SPECIFIER \*\* Delete finishes not required.

* + - * 1. Finish: As selected by Architect.
        2. Finish: Chestnut Bronze.
        3. Finish: Desert Sand.
        4. Finish: White
        5. Finish: Polished Brass.
        6. Finish: Antique Brass.
        7. Finish: Brushed Chrome.
        8. Finish: Oil Rubbed Bronze.
        9. Finish: Satin Nickel.
      1. Radius and Geometric Windows: None.

\*\* NOTE TO SPECIFIER \*\* Various types of glass are available. The most common types have been included here. Contact a JELD-WEN representative when other options are required. Reflective glare from glazing has been found to affect the beach nesting of turtles in coastal environments. Some governing authorities require the use of turtle glass which uses tinted glass to achieve an industry-approved, inside-to-outside visible light transmittance value of 45 percent or less (visible spectrum = 400 to 700 nanometers). Verify the requirements for turtle glass with local authorities in coastal environments. Laminated glass uses a vinyl interlayer to provide added security against impact, comfort with higher STC ratings.

* + 1. Glazing for Windows:

\*\* NOTE TO SPECIFIER \*\* Delete strength not required.

* + - 1. Strength: Standard annealed glass.
      2. Strength: Optional tempered glass.

\*\* NOTE TO SPECIFIER \*\* Delete glazing type not required.

* + - 1. Glazing Type: Insulated glass.
         1. Description: Two panes of glass utilizing continuous roll formed stainless steel spacer and dual seal sealants.
         2. Overall Nominal Thickness: 3/4 inch (19 mm).

\*\*\* NOTE TO SPECIFIER \*\* Delete coatings not required.

* + - * 1. Glass Coating: Standard, Low-E 366.
        2. Glass Coating: Low-E.
        3. Glass Coating: Low-E 180.
        4. Glass Coating: Low-E EC.
        5. Glass Coating: Low-E EC 366.
        6. Glass Coating: As selected by Architect.
        7. Glass Protection: Plastic preserve film on interior and exterior of glass.

\*\* NOTE TO SPECIFIER \*\* Argon option is only available with Low-E coating and cannot be used with capillary tubes. Delete air space gas not required. Installations at elevations above 4,000 feet Mean Sea Level require glazing known as High Altitude glazing with capillary tubes to equalize environmental stress.

* + - * 1. Air Space: Standard Argon-filled airspace.
        2. Air Space: Optional air-filled airspace with capillary tubes.
      1. Glazing Type: Triple glazing.
         1. Overall Nominal Thickness: 1-1/4 inch (31.75 mm).

\*\* NOTE TO SPECIFIER \*\* Delete coatings not required.

* + - * 1. Glass Coating: Low-E.
        2. Glass Coating: Low-E 270 / Low-E 180.
        3. Glass Coating: Low-E 180 / Low-E 180.
        4. Glass Coating: As selected by Architect.

\*\* NOTE TO SPECIFIER \*\* Exterior insect screens are available for double-hung and horizontal sliding windows. Delete if not required.

* + 1. Exterior Insect Screens:
       1. Material: Charcoal fiberglass screen cloth (18 by 16 mesh) set in painted roll formed aluminum frame.
       2. Frame Color: Matched exterior cladding.

\*\* NOTE TO SPECIFIER \*\* Delete if not required.

* + 1. 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: Matched exterior cladding.

\*\* NOTE TO SPECIFIER \*\* Interior insect screens are available for awning, casement and radius and geometric windows. Delete if not required.

* + 1. Interior Insect Screens:
       1. Material: Charcoal fiberglass screen cloth (18 by 16 mesh) set in painted roll formed aluminum frame.

\*\* NOTE TO SPECIFIER \*\* Delete finishes not required.

* + - * 1. Finish: As selected by Architect.
        2. Finish: Chestnut Bronze.
        3. Finish: Desert Sand.
        4. Finish: White.

\*\* NOTE TO SPECIFIER \*\* SDL Grilles are not available for textured glass. Select grilles, profiles and widths based on the desired aesthetic appearance of the window. Delete if not required.

* + 1. Grilles:

\*\* NOTE TO SPECIFIER \*\* Delete types not required.

* + - 1. Simulated Divided Lites (SDL):
         1. Exterior Muntins: Extruded aluminum permanently applied to exterior of insulating glass unit.

\*\* NOTE TO SPECIFIER \*\* Delete profile not required.

Profile: Beaded.

\*\* NOTE TO SPECIFIER \*\* Delete widths not required.

Profile Width: 7/8 inch (22 mm).

Profile Width: 1-1/8 inches (28.5 mm).

Profile Width: 1-3/8 inches (34.9 mm).

Profile Width: 2-5/16 inches (59mm) (for simulated double-hung checkrail).

Profile: Putty.

\*\* NOTE TO SPECIFIER \*\* Delete widths not required.

Profile Width: 5/8 inch (16 mm).

Profile Width: 7/8 inch (22 mm).

Profile Width: 1-1/8 inches (28.5 mm).

Pattern: As scheduled and indicated on Drawings.

Finish: Match exterior cladding.

\*\* NOTE TO SPECIFIER \*\* Internal shadow bar will give the appearance of a true divided lite and is standard on all SDL units. Internal shadow bar may be deleted at the design professional's option. Delete internal shadow bar if not required.

* + - * 1. Internal Shadow Bar:

\*\* NOTE TO SPECIFIER \*\* Delete type not required.

Standard: Light Bronze.

Optional: Silver.

* + - * 1. Interior Spacer Bars:

\*\* NOTE TO SPECIFIER \*\* Delete types not required.

Standard: Steel.

Optional: Black.

Optional: Grey.

* + - * 1. Interior Muntins:

Material: Clear pine permanently bonded to interior of insulating glass unit.

\*\* NOTE TO SPECIFIER \*\* Delete profile not required.

Profile: Beaded.

Profile: Putty.

* + - 1. Full Surround Wood Grilles:Unfinished clear pine.
         1. Profile: Modified OGEE.
         2. Pattern: As scheduled and indicated on Drawings.

\*\* NOTE TO SPECIFIER \*\* Delete sizes not required.

* + - * 1. Size: 7/8 inch (22 mm).
        2. Size: 1-1/8 inches (28.5 mm).
        3. Size: 1-3/8 inches (34.9 mm).
      1. Grilles Between the Glass (GBG): Made of roll formed aluminum suspended within the air cavity.

\*\* NOTE TO SPECIFIER \*\* Utilize flat for a narrow aesthetic and a contour profile for a wider aesthetic. Delete profile not required.

* + - * 1. Profile: Flat. Profile width; 5/8 inch (15.9 mm).
        2. Profile: Contour.

\*\* NOTE TO SPECIFIER \*\* Delete width not required.

Width: 23/32 inch (18.25 mm).

Width: 1 inch (25.4 mm).

* + - * 1. Pattern: As scheduled and indicated on Drawings.

\*\* NOTE TO SPECIFIER \*\* Delete finishes not required.

* + - * 1. Finish: As selected by Architect.
        2. Finish: Brilliant White.
        3. Finish: Chestnut Bronze.
        4. Finish: Desert Sand.
        5. Finish: French Vanilla.
        6. Finish: Hartford Green.
        7. Finish: Mesa Red.
        8. Finish: Arctic Silver.
        9. Finish: Dark Chocolate.
        10. Finish: Black.
        11. Finish: Split Finish.

\*\* NOTE TO SPECIFIER \*\* Delete options in Part 1 and 3 of this section corresponding to products selected. Siteline Hinged, Siteline French Hinged and 400 Series Sliding patio doors all have the same profile. Specify 400 Series when a slider is desired, Siteline Hinged when only one operable panel of a 2 panel patio door is desired, and Siteline French Hinged when 2 operable panels are desired. Delete if not required.

* 1. ALUMINUM-CLAD-WOOD PATIO DOOR ASSEMBLlES (SITELINE SERIES)
     1. Basis of Design: Siteline Series aluminum-clad-wood patio door assemblies as manufactured by JELD-WEN, Inc.

\*\* NOTE TO SPECIFIER \*\* Delete patio door types not required. Delete options in the following paragraphs corresponding to patio door type selection, as described in the notes to specifier.

* + - 1. Patio Door Type: Out-swinging patio doors, wood construction.
      2. Patio Door Type: In-swinging patio doors, wood construction.
      3. Patio Door Type: Sliding patio doors, wood construction.
    1. Patio Door Fabrication:

\*\* NOTE TO SPECIFIER \*\* Delete frame type not required.

* + - 1. Frame: Standard finger jointed wood construction. Corner joints mechanically fastened and sealed with silicone.
      2. Frame: Optional clear wood construction. Corner joints mechanically fastened and sealed with silicone.
      3. Panels: Machine clamped corners.
      4. Glass: Mounted using silicone glazing compound on exterior and retainer held bead on interior.
      5. Cladding: Aluminum corners are jointed and sealed.
    1. Frames:
       1. Material: Select kiln-dried pine AuraLast treated wood.
       2. Jamb Width: 4-9/16 inches (116 mm).
       3. Cladding: 0.050 inch (1.27 mm) extruded aluminum.

\*\* NOTE TO SPECIFIER \*\* Delete if no swinging door panels.

* + 1. Swinging Door Panels:
       1. Materials: Select kiln-dried pine AuraLast treated wood and engineered wood substrate. Select members have a LVL core.
       2. Cladding: 0.055 inch (1.4 mm) extruded aluminum.
       3. Thickness: 1-3/4 inches (44.5 mm).
       4. Stiles:

\*\* NOTE TO SPECIFIER \*\* Delete stiles type not required.

* + - * 1. Narrow: 3-3/32 inches (78 mm).
        2. Wide: 4-5/8 inches (117 mm).
      1. Bottom Rail:

\*\* NOTE TO SPECIFIER \*\* Delete rails not required.

* + - * 1. Narrow: 4-5/8 inches (117 mm)
        2. Standard: 8-1/4 inches (209 mm)
        3. Wide: 10 inches (254 mm).

\*\* NOTE TO SPECIFIER \*\* Delete if no sliding door panels.

* + 1. Sliding Door Panels:
       1. Materials: Select kiln-dried pine AuraLast treated wood and engineered wood substrate. Select members have a LVL core.
       2. Cladding: 0.055 inch (1.4 mm) extruded aluminum.
       3. Thickness: 1-3/4 inches (44.5 mm).
       4. Stiles:

\*\* NOTE TO SPECIFIER \*\* Delete stiles type not required.

* + - * 1. Narrow: 3-3/32 inches (78 mm).
        2. Wide: 4-5/8 inches (117 mm).
      1. Rails

\*\* NOTE TO SPECIFIER \*\* Delete rail not required.

* + - * 1. Narrow: 3-3/32 inches (78 mm).
        2. Wide: 8-1/4 inches (210 mm).
    1. Exterior Trim:
       1. Nailing Fin and Drip Cap: Integral extruded aluminum on head and jambs.
       2. As selected from Manufacturer's standard offering.

\*\* NOTE TO SPECIFIER \*\* Select optional casing when construction conditions or aesthetics require inclusion. Utilize the following trims for indicated applications: Brickmould in conjunction with masonry veneers, Flat Casings for narrow, and Adams Casing for wider aesthetic conditions. Delete casings not required.

* + - 1. Casing, Standard: 2 inch (51 mm) brickmould.
      2. Casing, Optional: 3-1/2 inches (88.9 mm) flat casing.
      3. Casing, Optional: Adams Casing.
      4. Casing, Optional: 2 inch (51 mm) beaded brickmould.

\*\* NOTE TO SPECIFIER \*\* Delete extension jamb if not required.

* + 1. Extension Jambs

\*\* NOTE TO SPECIFIER \*\* Delete types not required.

* + - 1. Type: Siteline Series Sliding. Applied at head and sides of frame interior in wall depths up to 12 inches (304.8 mm).
      2. Type: Siteline Series Out-swinging. Applied at head and sides of frame interior in wall depths up to 9-5/16 inches (237 mm).
      3. Type: Siteline Series In-swinging. Applied at head and sides of frame interior in wall depths up to 9-3/16 inches (233 mm).
    1. Weatherstripping:
       1. Sliding:
          1. Head: Ivory colored rigid vinyl parting stop with pile weatherstripping and aluminum track at operating head.
          2. Meeting Stiles: Ivory colored fiberglass interlock sealed with pile weatherstripping and dense pile weatherstripping.
          3. Side Jambs: Ivory colored rigid vinyl parting stop with pile weatherstripping.
          4. Sill: Pile weatherstripping.
       2. Out-Swing Patio Door: Weatherstrip on jambs and head. Sweep on bottom of panel, weatherstrip top rail of panel.
       3. In-Swing Patio Door: Weatherstrip on jambs and head. Sweep on bottom of panel, weatherstrip top rail of panel.
    2. Hardware:

\*\* NOTE TO SPECIFIER \*\* Delete options for sliding doors not required.

* + - 1. Sliding Doors:
         1. Sliding System: Adjustable, tandem, steel ball bearing rollers.

\*\* NOTE TO SPECIFIER \*\* Delete options for locks not required.

* + - * 1. Locks: Single point.
        2. Locks: Dual point.
        3. Locks: Multi-point.
        4. Locks: Optional lock cylinders with re-key option.

\*\* NOTE TO SPECIFIER \*\* Delete if not required.

* + - * 1. Lock Night Latch: Optional night latch at top of operating panel.

\*\* NOTE TO SPECIFIER \*\* Sliding four panel door includes dummy handles. Delete handle sets not required.

* + - * 1. Handle Sets: Premium.
        2. Handle Sets: Contemporary.
        3. Handle Sets: Legacy
        4. Handle Sets: Olympus

\*\* NOTE TO SPECIFIER \*\* Delete finishes not required.

* + - * 1. Handle Set Finish: As selected by Architect.
        2. Handle Set Finish: As selected from manufacturer's Standard offering.
        3. Handle Set Finish: As selected from manufacturer's Optional offering.
        4. Sill: Standard, one-piece pultruded fiberglass and stainless steel track.

\*\* NOTE TO SPECIFIER \*\* Delete sill pan if not required.

* + - * 1. Sill Pan: Optional molded ABS plastic sill pan.
      1. For Swinging Doors:

\*\* NOTE TO SPECIFIER \*\* Delete hinge type not required.

* + - * 1. Hinges: Adjustable, to match handle set finish.
        2. Hinges: Optional 4" Ball Bearing Hinge (Handicap Sill)
        3. Locks: Standard, Multi-point.

\*\* NOTE TO SPECIFIER \*\* Delete handle sets not required.

* + - * 1. Handle Sets: Classic.
        2. Handle Sets: Contemporary.
        3. Handle Sets: Rustic.

\*\* NOTE TO SPECIFIER \*\* Delete finishes not required.

* + - * 1. Handle Set Finish: As selected by Architect.
        2. Handle Set Finish: As selected from manufacturer's Standard offering.
        3. Handle Set Finish: As selected from manufacturer's Optional offering.

\*\* NOTE TO SPECIFIER \*\* Delete sill type not required.

* + - * 1. Sill: Standard, one-piece pultruded fiberglass and stainless steel.
        2. Sill: Optional Handicap Sill

\*\* NOTE TO SPECIFIER \*\* Delete if not required.

* + - * 1. Sill Pan: Provided by others.

\*\* NOTE TO SPECIFIER \*\* Various types of glass are available. The most common types have been included here. Contact a JELD-WEN representative when other options are required. Reflective glare from glazing has been found to affect the beach nesting of turtles in coastal environments. Some governing authorities require the use of turtle glass which uses tinted glass to achieve an industry-approved, inside-to-outside visible light transmittance value of 45 percent or less (visible spectrum = 400 to 700 nanometers). Verify the requirements for turtle glass with local authorities in coastal environments.

* + 1. Glazing for Patio Doors:
       1. Strength: Tempered glass.
       2. Glazing Type: Insulated glass.
          1. Description: Two panes of glass utilizing continuous roll formed stainless steel spacer and dual seal sealants.
          2. Overall Nominal Thickness: 3/4 inch (19 mm).

\*\* NOTE TO SPECIFIER \*\* Delete coatings not required.

* + - * 1. Glass Coating: Standard, Low-E 366.
        2. Glass Coating: Low-E.
        3. Glass Coating: Low-E 180.
        4. Glass Coating: Low-E EC.
        5. Glass Coating: Low-E 366 EC.
        6. Glass Coating: As selected by Architect.
        7. Glass Protection: Plastic preserve film on interior and exterior of glass.

\*\* NOTE TO SPECIFIER \*\* Argon option is only available with Low-E coating and cannot be used with capillary tubes. Delete air space gas not required. Installations at elevations above 4,000 feet Mean Sea Level require glazing known as High Altitude glazing with capillary tubes to equalize environmental stress.

* + - * 1. Air Space: Standard, Argon-filled airspace.
        2. Air Space: Optional air-filled airspace with capillary tubes.

\*\* NOTE TO SPECIFIER \*\* Insect screens are not available on Siteline Out-Swing Hinged and Siteline French Out-Swing Hinged doors or doors with ADA sills. 400 Series Sliding 4 panel doors use two sliding screens with field applied astragal. Siteline In-Swing Hinged 2 and 3 panel doors use one sliding screen. Siteline In-Swing Hinged and Siteline French In-Swing Hinged single panel doors use an outward swing hinged screen. Applied locking latch is available on Siteline In-Swing Hinged and Siteline French In-Swing Hinged doors only.

* + 1. Exterior Sliding Insect Screens:

\*\* NOTE TO SPECIFIER \*\* Delete types not required.

* + - 1. Type: Bottom rolling.
      2. Type: Optional top hanging.
      3. Type: Optional heavy duty bottom rolling.
      4. Material: Charcoal fiberglass, screen cloth (18 by 16 mesh) set in 0.040 inch (1 mm) extruded aluminum frame with adjustable rollers.

\*\* NOTE TO SPECIFIER \*\* Delete frame colors not required.

* + - 1. Frame Color: As selected by Architect.
      2. Frame Color: Match exterior cladding color.
      3. Frame Color: Brilliant White.
      4. Frame Color: Chestnut Bronze.
      5. Frame Color: Desert Sand.
      6. Frame Color: French Vanilla.
      7. Frame Color: Hartford Green.
      8. Frame Color: Mesa Red.

\*\* NOTE TO SPECIFIER \*\* SDL Grilles are not available for textured glass. Select grilles, profiles and widths based on the desired aesthetic appearance of the window. Delete if not required.

* + 1. Grilles:

\*\* NOTE TO SPECIFIER \*\* Delete grilles not required.

* + - 1. Simulated Divided Lites (SDL).
         1. Exterior Muntins:

Material: Extruded aluminum permanently applied to exterior of insulating glass unit.

\*\* NOTE TO SPECIFIER \*\* Delete profile not required.

Profile: Beaded.

\*\* NOTE TO SPECIFIER \*\* Delete widths not required.

Profile Width: 7/8 inch (22 mm).

Profile Width: 1-1/8 inches (28.5 mm).

Profile Width: 1-3/8 inches (34.9 mm).

Profile Width: 2-5/16 inches (59 mm).

Profile: Putty.

\*\* NOTE TO SPECIFIER \*\* Delete widths not required.

Profile Width: 5/8 inch (16 mm).

Profile Width: 7/8 inch (22 mm).

Profile Width: 1-1/8 inches (28.5 mm).

Profile Width: 1-3/8 inches (34.9 mm).

Profile Width: 2-5/16 inches (59 mm).

Finish: Match exterior cladding color.

\*\* NOTE TO SPECIFIER \*\* Internal shadow bar will give the appearance of a true divided lite and is standard on all SDL units. Internal shadow bar may be deleted at the design professional's option. Delete internal shadow bar if not required.

* + - * 1. Internal Shadow Bar:

\*\* NOTE TO SPECIFIER \*\* Delete finish not required.

Finish: Standard Light Bronze finish.

Finish: Optional Silver finish.

* + - * 1. Internal Spacer Bar:

\*\* NOTE TO SPECIFIER \*\* Delete spacer bars not required.

Standard: Stainless Steel.

Optional: Black.

Optional: Grey.

* + - * 1. Interior Muntins:

Material: Clear pine permanently bonded to interior of insulating glass unit.

\*\* NOTE TO SPECIFIER \*\* Delete profile not required.

Profile: Beaded.

\*\* NOTE TO SPECIFIER \*\* Delete widths not required.

Profile Width: 7/8 inch (22 mm).

Profile Width: 1-1/8 inches (28.5 mm).

Profile Width: 1-3/8 inches (34.9 mm).

Profile Width: 2-5/16 inches (59 mm).

Profile: Putty.

\*\* NOTE TO SPECIFIER \*\* Delete widths not required.

Profile Width: 5/8 inch (16 mm).

Profile Width: 7/8 inch (22 mm).

Profile Width: 1-1/8 inches (28.5 mm).

Profile Width: 1-3/8 inches (34.9 mm).

Profile Width: 2-5/16 inches (59 mm).

* + - 1. Full Surround Wood Grilles.
         1. Material: Unfinished clear pine.
         2. Profile: Modified OGEE.
         3. Pattern: As scheduled and indicated on Drawings.

\*\* NOTE TO SPECIFIER \*\* Delete sizes not required.

* + - * 1. Size: 7/8 inch (22 mm).
        2. Size: 1-1/8 inches (28.5 mm).
        3. Size: 1-3/8 inches (34.9 mm).
      1. Grilles Between the Glass (GBG).
         1. Material: Made of roll formed aluminum suspended within the air cavity.

\*\* NOTE TO SPECIFIER \*\* Utilize flat for a narrow aesthetic and a contour profile for a wider aesthetic. Delete profile not required.

* + - * 1. Profile: Flat. Width; 5/8 inch (15.9 mm).
        2. Profile: Contour.

\*\* NOTE TO SPECIFIER \*\* Delete width not required.

Width: 23/32 inch (18.25 mm).

Width: 1 inch (25.4 mm).

* + - * 1. Pattern: As scheduled and indicated on Drawings.

\*\* NOTE TO SPECIFIER \*\* Delete finishes not required.

* + - * 1. Finish: As selected by Architect.
        2. Finish: Brilliant White.
        3. Finish: Chestnut Bronze.
        4. Finish: Desert Sand.
        5. Finish: French Vanilla.
        6. Finish: Hartford Green.
        7. Finish: Mesa Red.
        8. Finish: Arctic Silver.
        9. Finish: Dark Chocolate.
        10. Finish: Black.

1. EXECUTION
   1. EXAMINATION AND PREPARATION
      1. 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 sheet metal sill pan in accordance with manufacturer's recommendations.
         4. Prepare assembly components for installation in accordance with manufacturer's recommendations.
      2. 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.
      3. If preparation is the responsibility of another installer, notify Architect in writing of deviations from manufacturer's recommended installation tolerances and conditions.
   2. INSTALLATION
      1. Install assemblies in accordance with manufacturer's installation guidelines and recommendations including the following.

\*\* NOTE TO SPECIFIER \*\* The following paragraph is for use with window units with nailing fins. Delete if not required.

* + 1. 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.

\*\* NOTE TO SPECIFIER \*\* The following paragraph is for use with patio door units with nailing fins. Delete if not required.

* + 1. Installation of Patio Doors With Nailing Fins: Insert patio doors into rough opening.
       1. Shim side jambs straight.
       2. Inspect patio door for square, level and plumb.
       3. Fasten patio door through nailing fins around entire patio door.
       4. Test and adjust for smooth operation of patio door.
  1. FIELD QUALITY CONTROL
     1. Manufacturers' Field Services: Perform field inspections as recommended by manufacturer.
  2. CLEANING AND PROTECTION
     1. Clean the exterior surface and glass with mild soap and water.
     2. Protect installed windows from damage.
     3. Remove and dispose of protective film from glass; touch-up, repair or replace damaged components and assemblies before Substantial Completion.

END OF SECTION