MONTGOMERY COUNTY HISTORIC PRESERVATION COMMISSION
STAFF REPORT

Address: 7133 Sycamore Avenue, Takoma Park  
Meeting Date: 3/24/2021

Resource: Contributing Resource  
Takoma Park Historic District  
Report Date: 3/17/2021

Applicant: Melanie Stevenson  
Public Notice: 3/10/2021

Review: HAWP  
Tax Credit: Yes

STAFF RECOMMENDATION

Staff recommends that the HPC approve the HAWP application.

ARCHITECTURAL DESCRIPTION

SIGNIFICANCE: Contributing Resource within the Takoma Park Historic District
STYLE: Bungalow
DATE: c. 1920s

Fig. 1: Subject property.
PROPOSAL

The applicant proposes roof replacement and exterior alterations at the subject property.

APPLICABLE GUIDELINES

When reviewing alterations and new construction within the Takoma Park Historic District several documents are to be utilized as guidelines to assist the Commission in developing their decision. These documents include the historic preservation review guidelines in the approved and adopted amendment for the Takoma Park Historic District (Guidelines), Montgomery County Code Chapter 24A (Chapter 24A), and the Secretary of the Interior’s Standards for Rehabilitation (Standards). The pertinent information in these documents is outlined below.

Takoma Park Historic District Guidelines

There are two very general, broad planning and design concepts which apply to all categories. These are:

- The design review emphasis will be restricted to changes that are all visible from the public right-of-way, irrespective of landscaping or vegetation (it is expected that the majority of new additions will be reviewed for their impact on the overall district), and

- The importance of assuring that additions and other changes to existing structures act to reinforce and continue existing streetscape, landscape, and building patterns rather than to impair the character of the historic district.

A majority of structures in the Takoma Park Historic District have been assessed as being “Contributing Resources.” While these structures may not have the same level of architectural or historical significance as Outstanding Resources or may have lost some degree of integrity, collectively, they are the basic building blocks of the Takoma Park district. However, they are more important to the overall character of the district and the streetscape due to their size, scale, and architectural character, rather than for their particular architectural features.

Contributing Resources should receive a more lenient level of design review than those structures that have been classified as Outstanding. This design review should emphasize the importance of the resource to the overall streetscape and its compatibility with existing patterns rather than focusing on a close scrutiny of architectural detailing. In general, however, changes to Contributing Resources should respect the predominant architectural style of the resource.

The Guidelines that pertain to this project are as follows:

- All exterior alterations, including those to architectural features and details, should be generally consistent with the predominant architectural style and period of the resource and should preserve the predominant architectural features of the resource; exact replication of existing details and features is, however, not required.

- Some non-original building materials may be acceptable on a case-by-case basis; artificial siding on areas visible from the public right of way is discouraged where such materials would replace or damage original building materials that are in good condition.

- All changes and additions should respect existing environmental settings, landscaping, and patterns of open space.
Montgomery County Code; Chapter 24A-8

(b) The commission shall instruct the director to issue a permit, or issue a permit subject to such conditions as are found to be necessary to ensure conformity with the purposes and requirements of this chapter, if it finds that:

(1) The proposal will not substantially alter the exterior features of an historic site or historic resource within an historic district; or

(2) The proposal is compatible in character and nature with the historical, archeological, architectural or cultural features of the historic site or the historic district in which an historic resource is located and would not be detrimental thereto or to the achievement of the purposes of this chapter; or

(3) The proposal would enhance or aid in the protection, preservation and public or private utilization of the historic site or historic resource located within an historic district in a manner compatible with the historical, archeological, architectural or cultural value of the historic site or historic district in which an historic resource is located; or

(4) The proposal is necessary in order that unsafe conditions or health hazards be remedied; or

(5) The proposal is necessary in order that the owner of the subject property not be deprived of reasonable use of the property or suffer undue hardship; or

(6) In balancing the interests of the public in preserving the historic site or historic resource located within an historic district, with the interests of the public from the use and benefit of the alternative proposal, the general public welfare is better served by granting the permit.

(c) It is not the intent of this chapter to limit new construction, alteration or repairs to any 1 period or architectural style.

(d) In the case of an application for work on an historic resource located within an historic district, the commission shall be lenient in its judgment of plans for structures of little historical or design significance or for plans involving new construction, unless such plans would seriously impair the historic or architectural value of surrounding historic resources or would impair the character of the historic district. (Ord. No. 9-4, § 1; Ord. No. 11-59.)

Secretary of the Interior’s Standards for Rehabilitation

The Secretary of the Interior defines rehabilitation as “the act or process of making possible a compatible use for a property through repair, alterations, and additions while preserving those portions or features, which convey its historical, cultural, or architectural values.” The Standards are as follows:

2. The historic character of a property shall be retained and preserved. The removal of historic materials or alteration of features and spaces that characterize a property shall be avoided.

9. New additions, exterior alterations, or related new construction shall not destroy historic materials that characterize the property. The new work shall be differentiated from the old and shall be compatible with the massing, size, scale, and architectural features to protect the historic integrity of the property and its environment.
10. New additions and adjacent or related new construction shall be undertaken in such a manner that if removed in the future, the essential form and integrity of the historic property and its environment would be unimpaired.

STAFF DISCUSSION

The subject property is a c. 1920s Bungalow-style Contributing Resource on a corner lot in the Takoma Park Historic District. The house fronts of Sycamore Avenue to the west, while its north (left) side faces Ethan Allen Avenue. The house has experienced previous alterations, including the addition of exterior staircase at the east side (rear). The applicant proposes a number of work items, all aimed at repairing damage and/or removing incompatible features related to this non-original /non-historic exterior staircase.

The proposed work items include:

- Removal of the exterior wooden staircase and railings at the east side (rear) of the house.
- In-kind repair/replacement of any siding and framing revealed by the removal of the staircase.
- Removal of the vinyl siding from the east room and repair of the original stucco underneath, as necessary.
- Replacement in-kind of the three-tab asphalt shingle roofing on the main house.
- Replacement of the existing built-up roofing on the east room with modified bitumen roofing, due to its low slope.
- Install one (1) wood, six-over-one, double-hung window in the east (rear) gable of the house.
  - The proposed new window will be simulated divided lite with permanently affixed 7/8” interior and exterior muntins and internal spacer bars.
  - This opening was originally a window, but was converted to a door by a previous owner.
- Window and door replacement/installation on the east room.
  - The east room retains no original materials and/or features, as they were replaced and/or covered by a previous owner.
  - The jambs are currently covered with vinyl siding on the east (rear) and south (right) elevations, and vinyl windows were installed on the the north (left) elevation.
  - The proposed new windows and door will be simulated divided lite with permanently affixed 7/8” interior and exterior muntins and internal spacer bars.
  - The proposed new fenestration includes:
    - Eight (8) wood, six-lite, casement windows
      - Three (3) on the south (right) elevation.
      - Three (3) on the north (left) elevation.
      - Two (2) on the east (rear) elevation.
    - One (1) fifteen-lite door on the east (rear) elevation.
- Install seven (7) wooden stairs with handrails from the east room to grade at the east side (rear) of property.
  - The proposed new stairs will include a 36” x 36” landing at the top.
  - The stairs will be 36” wide, with 10” deep treads and 6.75” high risers.
  - The handrail will be made of wood, and the balusters will be inset between the top and bottom rails, with an opening less than 4” between balusters.
• Replace the existing deterioriated, non-historic/non-original garage door on the north (right) elevation (under the east room).
  o The proposed new garage door will be a steel roll up garage door, which takes visual cues from carriage house-style doors.

Staff fully supports the applicant’s proposal. The proposed work mostly constitutes repairs and replacement of non-original/non-historic features at the rear and on secondary elevation. Additionally, the proposed new features and materials and generally compatible with the subject property and surrounding streetscape.

In accordance with the Guidelines, the proposed alterations are generally consistent with the predominant architectural style (Bungalow) of the historic house, and they respect the existing environmental settings, landscaping, and patterns of open space, as they are all largely within the existing footprint. In accordance with Standards #2 and #9, the proposal will not remove or alter character-defining features of the historic house or surrounding streetscape. Per Standard #10, the proposed alterations can be removed in the future without impairing the essential form and integrity of the historic property and its environment.

After full and fair consideration of the applicant’s submission, staff finds the proposal, as modified by the condition, as being consistent with the Criteria for Issuance in Chapter 24A-8(b) 1 and 2 and (d), having found the proposal is consistent with the Secretary of the Interior’s Standards for Rehabilitation #2, #9 and #10, and Takoma Park Historic District Guidelines outlined above.

STAFF RECOMMENDATION

Staff recommends that the Commission approve the HAWP application under the Criteria for Issuance in Chapter 24A-8(b), (1), (2) & (d), having found that the proposal, as modified by the condition, is consistent with the Takoma Park Historic District Guidelines, and therefore will not substantially alter the exterior features of the historic resource and is compatible in character with the district and the purposes of Chapter 24A;

and with the Secretary of the Interior’s Standards for Rehabilitation #2, #9, and #10.

and with the general condition that the applicant shall present an electronic set of drawings, if applicable, to Historic Preservation Commission (HPC) staff for review and stamping prior to submission for the Montgomery County Department of Permitting Services (DPS) building permits;

and with the general condition that final project design details, not specifically delineated by the Commission, shall be approved by HPC staff or brought back to the Commission as a revised HAWP application at staff’s discretion;

and with the general condition that the applicant shall notify the Historic Preservation Staff if they propose to make any alterations to the approved plans. Once the work is completed the applicant will contact the staff person assigned to this application at 301-563-3400 or michael.kyne@montgomeryplanning.org to schedule a follow-up site visit.
APPLICATION FOR HISTORIC AREA WORK PERMIT
HISTORIC PRESERVATION COMMISSION
301.563.3400

APPLICANT:

Name: Melanie Stevenson
Address: 7133 Sycamore Ave.
Daytime Phone: 504-418-3640

E-mail: mdstev@gmail.com
City: Takoma Park
Zip: 20912

Tax Account No.: ________________

AGENT/CONTACT (if applicable):

Name: ____________________________
Address: __________________________
Daytime Phone: ____________________

E-mail: ____________________________
City: ____________________________
Zip: ________________

Contractor Registration No.: ________________

LOCATION OF BUILDING/PREMISE: MIHP # of Historic Property

Is the Property Located within an Historic District? Yes/District Name__________

No/Individual Site Name__________

Is there an Historic Preservation/Land Trust/Environmental Easement on the Property? If YES, include a map of the easement, and documentation from the Easement Holder supporting this application.

Are other Planning and/or Hearing Examiner Approvals/Reviews Required as part of this Application? (Conditional Use, Variance, Record Plat, etc.) If YES, include information on these reviews as supplemental information.

Building Number: 7133
Street: Sycamore Ave.

Town/City: Takoma Park
Nearest Cross Street: Ethan Allen Ave.

Lot: P49 Block: 22 Subdivision: 225 Parcel: ______

TYPE OF WORK PROPOSED: See the checklist on Page 4 to verify that all supporting items for proposed work are submitted with this application. Incomplete Applications will not be accepted for review. Check all that apply:

☐ New Construction ☐ Deck/Porch ☐ Shed/Garage/Accessory Structure
☐ Addition ☐ Fence ☐ Solar
☐ Demolition ☐ Hardscape/Landscape ☐ Tree removal/planting
☐ Grading/Excavation ☐ Roof ☐ Window/Door
☐ Other: __________________

I hereby certify that I have the authority to make the foregoing application, that the application is correct and accurate and that the construction will comply with plans reviewed and approved by all necessary agencies and hereby acknowledge and accept this to be a condition for the issuance of this permit.

Melanie Stevenson 12/29/2020

Signature of owner or authorized agent  Date
Description of Property: Please describe the building and surrounding environment. Include information on significant structures, landscape features, or other significant features of the property:

The house is a 1.5 story bungalow built in 1923 on the corner of Sycamore and Ethan Allen Ave. A large external staircase and railing were installed by the previous owners on the East facade blocking what previously were windows and a door leading to the backyard. The installation of this staircase caused damage to the siding and roof. Windows on the South and East facades were covered with vinyl siding. Additionally, a window jamb located near the top of this stairway was converted into a doorway by the previous owners.

Description of Work Proposed: Please give an overview of the work to be undertaken:

We propose to undertake five (5) work items related to the restoration and repair of the “East room” of our circa 1920 bungalow to bring the home more in line with the historic nature of the neighborhood.

1. Remove the exterior wooden staircase and railing leading from backyard to second-floor entrance in the East Elevation. Repair/replace any damage to the siding and framing revealed by the removal of the staircase. The staircase is not original to the house, and is visible from Ethan Allen Ave.
2. Replace the roof over the “East room” on the East Elevation and the roof over porch and house on the West Elevation with 3-tab shingles matching roofing on the rest of the house. Roofing in both sections currently leaks.
3. Install (1) wood, six-over-one, double-hung, sash window (simulated divided light with permanently affixed 7/8” muntins on interior/exterior with internal spacer bar) at the peak on the East Elevation. The window jamb was converted to an entrance by previous owners with a door that is not original.
4. Install eight (8) wood, six-panel, casement windows (three (3) on the South Elevation, three (3) on the North Elevation, and two (2) on the East Elevation) and one (1) fifteen-panel door in the “East room”. The windows and door will be simulated divided light with permanently affixed 7/8” muntins on interior/exterior with internal spacer bar. All original elements in this room were removed by previous owners. They covered the jambs with vinyl siding on the East and South façades and installed vinyl windows in the jambs on the North façade. The proposed windows are in line with historic photos. The proposed door matches the design of the existing original exterior door on the North elevation.
5. Install approximately six (6) steps leading down from the first-floor door on the East elevation of the “East room” to the backyard.
<table>
<thead>
<tr>
<th>Work Item 1: Remove External Stairs</th>
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<tbody>
<tr>
<td><strong>Description of Current Condition:</strong></td>
</tr>
<tr>
<td>The stair case is in poor condition and its installation caused damage to the roof and siding.</td>
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<tr>
<td><strong>Proposed Work:</strong></td>
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<tr>
<td>Remove the exterior wooden staircase and railing leading from backyard to second-floor entrance in the East Elevation. Repair/replace any damage to the siding and framing revealed by the removal of the staircase.</td>
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<tr>
<th>Work Item 2: Replace Roof</th>
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<tbody>
<tr>
<td><strong>Description of Current Condition:</strong></td>
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<tr>
<td>The roof leaks over the &quot;East room&quot; and over the front porch.</td>
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<td><strong>Proposed Work:</strong></td>
</tr>
<tr>
<td>Replace the roof over the &quot;East room&quot; on the East Elevation and the roof over porch and house on the West Elevation with 3-tab shingles matching roofing on the rest of the house.</td>
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<tr>
<th>Work Item 3: Install Windows/Doors/Stairs</th>
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<tbody>
<tr>
<td><strong>Description of Current Condition:</strong></td>
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<tr>
<td>The window jamb under the peak was converted to an entrance by previous owners with a door that is not original. All original elements in the &quot;East room&quot; were removed by previous owners. They covered the jambs with vinyl siding on the East and South façades and installed vinyl windows in the jambs on the North façade.</td>
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<tr>
<td><strong>Proposed Work:</strong></td>
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<tr>
<td>Install (1) wood, six-over-one, double-hung, sash window (simulated divided light with permanently affixed 7/8” muntins on interior/exterior with internal spacer bar) at the peak on the East Elevation. Install eight (8) wood, six-panel, casement windows (three (3) on the South Elevation, three (3) on the North Elevation, and two (2) on the East Elevation) and one (1) fifteen-panel door in the “East room”. The windows and door will be simulated divided light with permanently affixed 7/8” muntins on interior/exterior with internal spacer bar. The proposed windows are in line with historic photos. The proposed door matches the design of the existing original exterior door on the North elevation. Install approximately six (6) steps leading down from the first-floor door on the East elevation of the &quot;East room&quot; to the backyard.</td>
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# HISTORIC AREA WORK PERMIT

## CHECKLIST OF APPLICATION REQUIREMENTS

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<td>Deck/Porch</td>
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<td>Fence/Wall</td>
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<td>Driveway/Parking Area</td>
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<td>Tree Removal</td>
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<td>Window/Door Changes</td>
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<td>Masonry Repair/Repoint</td>
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<td>Signs</td>
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HAWP Application: Mailing Addresses for Notifying Owners, Adjacent, and Confronting Owners

**Owner’s mailing address**

Melanie Stevenson and Rudi Feiler  
7133 Sycamore Ave.  
Takoma Park, MD 20912

**Adjacent and Confronting Property Owners mailing addresses**

Dan Philips  
7131 Sycamore Ave.  
Takoma Park, MD 20912

Robert Turner  
10224 Leslie St.  
Silver Spring, MD 20902

Sami and Linah Albanna  
211 Ethan Allen Ave.  
Takoma Park, MD 20912

Susan Robb  
203 Manor Circle  
Takoma Park, MD 20912
We propose to undertake seven (7) work items related to the restoration and repair of the “East room” of our circa 1920 bungalow to bring the home more in line with the historic nature of the neighborhood.

1. Remove the exterior wooden staircase and railing leading from backyard to second-floor entrance in the East Elevation. Repair/replace any damage to the siding and framing revealed by the removal of the staircase. The staircase is not original to the house, and is visible from Ethan Allen Ave.

2. Remove the vinyl siding from the “East Room” which covers stucco that is original to the house. Repair stucco as needed and paint.

3. Replace the roof over house and porch on the West Elevation and the roof over the “East room” on the East Elevation. The roof on the West elevation will be replaced with 3-tab shingles matching the current roofing on this part of the house. The roof over the east room, Currently Built-Up Roofing, will be replaced with Modified Bitumen Roofing material due to its low slope.

4. Install (1) wood, six-over-one, double-hung, sash window (simulated divided light with permanently affixed 7/8” muntins on interior/exterior with internal spacer bar) at the peak on the East Elevation. The window jamb was converted to an entrance by previous owners with a door that is not original.

5. Install eight (8) wood, six-panel, casement windows (three (3) on the South Elevation, three (3) on the North Elevation, and two (2) on the East Elevation) and one (1) fifteen-panel door in the “East room”. The windows and door will be simulated divided light with permanently affixed 7/8” muntins on interior/exterior with internal spacer bar. All original elements in this room were removed by previous owners. They covered the jambs with vinyl siding on the East and South façades and installed vinyl windows in the jambs on the North façade. The proposed windows are in line with historic photos. The proposed door matches the design of the existing original exterior door on the North elevation.

6. Install seven (7) wooden stairs with handrails leading down from the proposed first-floor door on the East elevation of the “East room” to the backyard. The door will open onto a landing 36” wide and 36” long. The stairs will have a width of 36” with a tread of 10” and rise of 6.75”. The handrail will be made of wood. Balusters will be inset between the top and bottom rails with an opening less than 4” between balusters.

7. Remove the current garage door which is not original to the house and in poor condition. Replace with a long-panel garage door with an 8-panel grille pattern window on the left and right side matching the design of the windows in the original doors seen in historic photographs.
North Façade
Elevation

Scale: 2ft
East Façade Elevation

Scale: 2ft

Remove Railing

Install Window

30"

48"

Install Window

182"

Install Window

Install Stairs and Handrails

Hedge

Remove Staircase

Remove Vinyl Siding

Install Window

Install Window

Install Door

Yard

Foundation

Inset Baluster

Top Rail

Bottom Rail

Vinyl Siding

Fence
South Façade Elevation

- Remove Staircase
- Install Window
- Install Window
- Install Window
- Remove Railing
- Install 7 stairs and Handrails
- Remove Vinyl Siding

Scale: 2ft
Arial Plan
2nd Floor

Scale: 2ft

Remove Staircase

Remove Railing

Repair/Replace Roof

Install Window

Fence
Hedge
Sidewalk
Ethan Allen Ave.
Gate
Stairs
Driveway
Yard

North

110"

182"

2ft
West Façade Elevation
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<th>Edit</th>
<th>Installed Price</th>
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<tbody>
<tr>
<td>Size</td>
<td></td>
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<tr>
<td>WindCode</td>
<td></td>
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<tr>
<td>Collection</td>
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<tr>
<td>Door Design</td>
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<tr>
<td>Door Model</td>
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<td>Door Construction</td>
<td>2-Layer 1 5/16&quot; Polystyrene Ins 24 Ga Shiplap Jnt R-Value 6.3</td>
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<tr>
<td>Hinges</td>
<td>$0.00</td>
</tr>
</tbody>
</table>

**SELECT & PROCEED WITH INSTALLED DOOR >**

Price: $1374.00

**PREVIOUS STEP**
RUBEROID® 20 Smooth Membrane

Updated: 8/16
Description
RUBEROID® 20 Smooth Membrane is a tough, resilient modified bitumen membrane manufactured to stringent GAF specifications. Its core is a strong, resilient non-woven glass mat that is coated with flexible, SBS polymer modified asphalt.

Uses
RUBEROID® 20 Smooth Membrane is designed for new roofing and re-cover applications as well as in the construction of flashings. RUBEROID® 20 Smooth Membrane is an ideal base or interply roofing membrane in modified bitumen systems, including GAF CompositeRoof™ and 20/30 systems.

Advantages
• System guarantees are available for up to 20 years.*
• Light weight—Installed roof designs weigh less than 3 pounds per square foot (14.6 kg/m²).
• Durable—Combines the strength of fiberglass reinforcement with the elongation characteristics of SBS modified asphalt.

Advantages (Continued)
• RUBEROID® 20 Smooth Membrane is manufactured by GAF, a company with over 125 years in the roofing business.
• Available as a smooth surface.

* See applicable guarantee for complete coverage and restrictions.

Applicable Standards
Meets ASTM D6163, Type I, Grade S
FM Approved
ICC ESR-1274
Miami-Dade County Product Control Approved
State of Florida Approved
Texas Department of Insurance
UL/ULC Classified

Product Specifications (nominal)

<table>
<thead>
<tr>
<th>Property</th>
<th>Test Method</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Roll Size</td>
<td>1.5 square</td>
<td>(161.4 gross sq. ft.) (15.0 m²)</td>
</tr>
<tr>
<td>Roll Length</td>
<td>49.2’ (15.34 m)</td>
<td></td>
</tr>
<tr>
<td>Roll Width</td>
<td>39.375’ (1.0 m)</td>
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<tr>
<td>Approx. Roll Weight</td>
<td>89.0 lb (40.37 kg)</td>
<td></td>
</tr>
<tr>
<td>Product Thickness</td>
<td>0.085” (2.1 mm)</td>
<td></td>
</tr>
</tbody>
</table>

This product meets or exceeds the following ASTM D6163, Type I, Grade S, minimum requirements:

<table>
<thead>
<tr>
<th>Property</th>
<th>Test Method</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tensile Strength @ 0°F (min), lbf/in</td>
<td>ASTM D5147</td>
<td>70</td>
</tr>
<tr>
<td>Elongation @ 0°F (min), %</td>
<td>ASTM D5147</td>
<td>1</td>
</tr>
<tr>
<td>Low Temperature Flexibility (max), °F</td>
<td>ASTM D5147</td>
<td>0</td>
</tr>
<tr>
<td>Tear Strength (min), lbf</td>
<td>ASTM D5147</td>
<td>35</td>
</tr>
<tr>
<td>Dimensional Stability, (max) %</td>
<td>ASTM D5147</td>
<td>0.5</td>
</tr>
</tbody>
</table>
PRODUCT INFORMATION

CertainTeed offers a variety of three-tab shingle products that combine exceptional durability with flexibility for better resistance to blow-off. In addition to their suitability for residential applications, these products are ideal for commercial applications. Available in “English” dimensions – 12” x 36” and in “Metric” dimensions – 13 1/4” x 39 3/8”, depending on the product and sales region.

Algae Resistant (AR) versions of these shingles are available in some regions. Algae resistant shingles help protect against staining or discoloration caused by algae.

Colors: Please refer to the product brochure or CertainTeed website for the colors available in your region.

Limitations: Use on roofs with slopes greater than 2" per foot. Low slope applications (2" to 4" per foot) require additional underlayment. In areas where icing along the eaves can cause a backup of water, apply CertainTeed WinterGuard® Waterproofing Shingle Underlayment, or its equivalent, according to application instructions provided with the product and on the shingle package.

On slopes greater than 21" per foot, apply a spot of roofing cement under each shingle tab corner according to application instructions provided on the shingle package.

Product Composition: These shingles are composed of a fiber glass mat base. Ceramic-coated mineral granules are tightly embedded in carefully refined, water-resistant asphalt. These shingles have self-sealing adhesive. These are 3-tab shingles.

Applicable Standards:
ASTM D3018 Type I
ASTM D3462
ASTM E108 Class A Fire Resistance
ASTM D3161 Class F Wind Resistance
ASTM D7158 Class H Wind Resistance
UL 790 Class A Fire Resistance
ICC-ES ESR-1389 and ESR-3537
CSA Standard A123.5 (except CT20 & XT 25 English)
Florida Product Approval # FL5444
Miami-Dade Product Control Approved

Technical Data:

<table>
<thead>
<tr>
<th>Product</th>
<th>XT 30 – English</th>
<th>XT 25 – English</th>
<th>XT 25 – Metric</th>
<th>CT 20 – English</th>
<th>CT 20 – Metric</th>
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<tr>
<td>Weight/Square (approx.):</td>
<td>215 lbs</td>
<td>205 lbs</td>
<td>220 lbs</td>
<td>195 lbs</td>
<td>195 lbs</td>
</tr>
<tr>
<td>Dimensions (overall):</td>
<td>12” x 36”</td>
<td>12” x 36”</td>
<td>13-1/4” x 39-3/8”</td>
<td>12” x 36”</td>
<td>13-1/4” x 39-3/8”</td>
</tr>
<tr>
<td>Shingles/Square:</td>
<td>80</td>
<td>80</td>
<td>65</td>
<td>80</td>
<td>65</td>
</tr>
<tr>
<td>Weather Exposure:</td>
<td>5”</td>
<td>5”</td>
<td>5-5/8”</td>
<td>5”</td>
<td>5-5/8”</td>
</tr>
</tbody>
</table>
INSTALLATION
The following is a general summary of the installation methods. Detailed installation instructions are supplied on each bundle of strip shingles and must be followed. Separate application sheets may also be obtained from CertainTeed.

Roof Deck Requirements: Apply shingles to minimum 3/8” thick plywood, minimum 7/16” thick non-veneer (e.g. OSB), or minimum 1” thick (nominal) wood decks. The plywood or non-veneer decks must comply with the specifications of APA-The Engineered Wood Association.

Ventilation: Provisions for ventilation should meet or exceed current HUD Standards. To ensure adequate balance ventilation, use a combination of continuous ridge ventilation (using CertainTeed Ridge Vent products, or a comparable product with an external baffle) combined with soffit venting.

Valleys: Valley liner must be applied before shingles. The Closed-Cut valley application method is recommended, using CertainTeed WinterGuard Waterproofing Shingle Underlayment, or its equivalent, to line the valley prior to being fully covered by the shingles.

Underlayment:
On slopes 4” per foot or greater, CertainTeed recommends one layer of DiamondDeck® Synthetic Underlayment, or Roofer’s Select® High-Performance shingle underlayment, or shingle underlayment meeting ASTM D226, D4869 or ASTM D6757. Always ensure sufficient deck ventilation, and take particular care when DiamondDeck or other synthetic underlayment is installed. For UL fire rating, underlayment may be required. Corrosion-resistant drip edge is recommended and should be placed over the underlayment at the rake and beneath the underlayment at the eaves. Follow manufacturer’s application instructions.

On low slopes (2” up to 4” per foot), one layer of CertainTeed’s WinterGuard Waterproofing Shingle Underlayment (or equivalent meeting ASTM D1970) or two layers of 36” wide felt shingle underlayment (Roofer’s Select High-Performance Underlayment or product meeting ASTM D226, D4869 or ASTM D6757) lapped 19” must be applied over the entire roof, ensure sufficient deck ventilation. When DiamondDeck or other synthetic underlayment is installed, weather-lap at least 20” and ensure sufficient deck ventilation. When WinterGuard is applied to the rake area, the drip edge may be installed under or over WinterGuard. At the eave, when WinterGuard does not overlap the gutter or fascia, the drip edge should be installed under WinterGuard. When WinterGuard overlaps the fascia or gutter, the drip edge or other metal must be installed over it. Follow manufacturer’s application instructions.

Fastening: Four nails are required per shingle. For English-sized shingles they are to be located 5/8” above the top of each cutout and 1” and 12” in from each side of the shingle. For Metric-sized shingles they are to be located 1” and 13-1/8” in from each side of the shingle. They must be of sufficient length to penetrate into the deck 3/4” or through the thickness of the decking, whichever is less. Nails are to be 11 or 12 gauge, corrosion-resistant roofing nails with 3/8” heads.

On steep slopes greater than 21” per foot, apply a spot of roofing cement under each shingle tab corner according to application instructions provided on the shingle package.

Application (English-Sized Shingles): The recommended application method is the Six-Course, 6” Stepped-Off Diagonal Method found on each bundle of shingles. These shingles may also be applied using the 5” Stepped-Off Diagonal Method, or the 6” Offset, Single-Column Vertical-Racking Method, instructions for which may be obtained from CertainTeed. These shingles may be used for new construction or for re-roofing over old shingles.
**Application (Metric-sized shingles):** The recommended application method is the Seven Course, 5-5/8" Stepped-Off Diagonal Method found on each bundle of shingles. These shingles may also be applied using the Eight Course, 5" Stepped-Off Diagonal Method or the Half-Tab Diagonal Method, instructions for which may be obtained from CertainTeed. These shingles may be used for new construction or for reroofing over old shingles.

**Flashing:** Use corrosion-resistant metal flashing.

**Hips and Ridges:** Use field shingles of a like color for capping hips and ridges.

**MAINTENANCE**
These shingles do not require maintenance when installed according to manufacturer's application instructions. However, to protect the investment, any roof should be routinely inspected at least once a year. Older roofs should be looked at more frequently.

**WARRANTY**
XT 30 (and AR), shingles carry a 30-year limited transferable warranty, XT 25 (and AR) carry a 25-year limited transferable warranty to the consumer against manufacturing defects. All of these shingles carry 5-year SureStart protection except for CT 20 which carries 3-year SureStart protection. For specific warranty details and limitations, refer to the warranty itself (available from the local supplier, roofing contractor or on-line at www.certainteed.com).

**FOR MORE INFORMATION**
Sales Support Group: 800-233-8990
Web site: www.certainteed.com
See us at our on-line specification writing tool, CertaSpec, at www.certainteed.com/certaspec.
PART 1 GENERAL

1.1 SUMMARY
A. Related Documents: Provisions established within the General and Supplementary Conditions of the Contract, Division 1 - General Requirements, and the Drawings are collectively applicable to this Section.
B. Section Includes:
   1. Aluminum clad wood swing panels (outswing) and sidelights installed in frame.
C. Related Sections:
   1. Section [_____] - Rough Carpentry: Wood blocking.
   2. Section [_____] - Sheet Metal Flashing and Trim: Flashing for opening.
   3. Section [_____] - Painting: Field finishing.

1.2 REFERENCES
A. American Architectural Manufacturers Association (AAMA):
B. American National Standards Institute (ANSI):
C. American Society for Testing and Materials (ASTM):
   2. ASTM B 137 “Standard for Measurement of Coating Mass Per Unit Area on Anodically Coated Aluminum.”
   3. ASTM B 244 “Standard for Measurement of Thickness of Anodic Coatings on Aluminum and of Other Nonconductive Coatings or Nonmagnetic Basis Metals with Eddy Current Instruments.”

D. Canadian Standards Association

E. Consumer Products Safety Commission:

F. National Fenestration Rating Council (NFRC):
1. NFRC 100 “Procedure for Determining Fenestration Products U-Factors.”

G. Window and Door Manufacturers Association (WDMA):
2. WDMA I.S.4 “Industry Standard for Water Repellant Preservative Non-Pressure Treatment for Millwork.” Window and Door Manufacturers Association (WDMA):

1.3 DEFINITIONS
A. U Cog: Units Btu/(hr*ft²*°F), center-of-glass U value. Center-of-glass is the central glazed portion of the window which one sees through that is more than 2.5 inches from sightline.
B. U/R Total: Value of total unit calculated per NFRC 100 using window and frame. U Factor is the primary measure of winter energy efficiency. A low U Factor means less heat passes through the unit due to exterior air and roomside air temperature differences. R Value = 1/U.
C. SHGC: The solar heat gain coefficient of the total fenestration system represents the solar heat gain through the system relative to the incident solar radiation striking the exterior surface. Solar Heat Gain Ratings are determined in accordance with NFRC 200.
D. Vtc: The visible transmittance of the total fenestration system is the transmittance across the visible portion of the solar spectrum where sensitivity to each wave length is weighted by the eye’s response. Visible Transmittance Ratings are determined in accordance with NFRC 300.

1.4 PERFORMANCE REQUIREMENT
A. Performance Grade SD-LC-PG40, AAMA/WDMA/CSA 101/I.S.2/A440-08:
1. Air Infiltration, ASTM E 283: Maximum 0.30 cfm/ft² at 1.57 psf (25 mph).
2. Water Resistance, ASTM E 547: No leakage at 6.00 psf (48.41 mph).
3. Structural Performance, ASTM E 330: Withstands up to +/-40 psf (125 mph).
4. Operating Force: 30 lbg to open, 20 lbg to maintain motion.
CSI PRODUCT SPECIFICATION
SECTION 08240

CLAD SWINGING DOORS AND SIDELIGHTS
Aspen Swing Doors and Sidelights

5. Forced Entry: Grade 25
6. [clad XO] [clad OLO]

1.5 THERMAL PERFORMANCE RATING
A. Glazing Type and Finish: clad.
   1. Center of Glass U Value (U Cog), NFRC 100: [______].
   2. U Tot. NFRC 100: [______].
   3. Solar Heat Gain Coefficient (SHGC), NFRC 200: [______].
   4. Visible light transmission (Vtc), NFRC 300: [______].

1.6 COATING PERFORMANCE
A. Primer shall comply with testing in accordance with ASTM D 3359 and ASTM D 5235.

1.7 SUBMITTALS
A. Provide submittals under provisions of Division 1.
B. Product Data: Include the following for each type of door required.
   1. Construction details and fabrication methods.
   2. Profiles and dimensions of individual components.
   3. Data on hardware, accessories, and finishes.
   4. Recommendations for maintenance and cleaning of exposed surfaces.
C. Shop Drawings: Include information not fully detailed in manufacturer’s product data and
   include the following for each type of door required.
   1. Fabrication, layout and installation details, including anchors.
   2. Typical door elevations.
   3. Full size section details of typical composite members, including reinforcement.
   4. Hardware, including operators.
   5. Glazing details.
   6. Accessories.
D. Samples: Submit one corner section. Submit color samples as appropriate.

1.8 QUALITY ASSURANCE
A. Manufacturer Qualifications: Manufacturer shall have produced types of doors specified for
   not less than ten years, with similar projects that have been in successful use for not less
   than ten years.
B. Obtain wood door units through one source from a single manufacturer.
C. Safety Glass Standard: Provide products complying with testing requirements of United
   or as prescribed by local codes. Provide products complying with ANSI Z97.1.
   1. Subject to compliance with project requirements, provide safety glass permanently
      marked with certification label of Safety Glazing Certification Council or another
      certification agency acceptable to authorities having jurisdiction.
D. Insulated Glass Certification: Provide insulated glass units permanently marked on spacers
   or on at least one component pane of units with appropriate certification label of inspecting
   agency.
E. WDMA Hallmark Certification: Provide products that have been certified as having been
   manufactured in accordance with WDMA Hallmark standards. Compliance is verified
   through independent third party product testing and semi-annual inspections of the
   manufacturing facility.
F. Wood Components Sustainability Standards: Provide products that have been certified by
   independent third parties and labeled as having been produced in compliance with the
   accepted principles of sustainable forest management. Current certification systems that
meet this standard of sustainability include the SFI™ or Sustainable Forestry Initiative (independent third-party verification), the ISO 14001 EMS program, the FSC (Forest Stewardship Council) system, and the CSA (Canadian Standards Association) certification system.

1.9 DELIVERY, STORAGE, AND HANDLING
A. Ship units with both temporary and permanent NFRC labeling.
   1. Temporary label shall indicate that the unit is NFRC certified and include brief product description and thermal or energy performance values.
   2. Permanent label shall include manufacturer identification and performance tracking for life of product.
B. Deliver in original packaging, undamaged, with instructions.
C. Store off ground and protect from weather.

1.10 WARRANTY
A. Insulated Glass: Provide manufacturer’s limited warranty against failure of air seal due to defects in materials or workmanship for period of 20 years from date of manufacture.
B. Wood Components, Hardware, and Weatherstripping: Provide manufacturer’s ten year limited warranty against defects in workmanship or materials which might unreasonably affect product’s normal functioning.
C. Metal Clad Warranty:
   1. Residential 2605 Metal Clad Warranty: Provide manufacturer’s 30 year limited warranty on metal clad coating against cracking or checking; 25 year limited warranty on metal clad coating against color change; 20 year warranty on metal clad coating against chalking or peeling (adhesion loss).
   2. Commercial 2605 Metal Clad Warranty: Provide manufacturer’s 20 year limited warranty on metal clad coating against cracking, checking, color change, chalking or peeling (adhesion loss) in normal conditions; 10 year limited warranty on metal clad coating against cracking, checking, color change, chalking or peeling (adhesion loss) in extreme conditions.
   3. 2604 Metal Clad Warranty: Provide manufacturer’s 10 year limited warranty on metal clad coating against cracking, checking, color change, chalking or peeling (adhesion loss). (2604 powder coating available in Heritage Collection Textured Series only.)

PART 2 PRODUCTS

2.1 MANUFACTURERS
A. Acceptable Manufacturers: Sierra Pacific Windows, Red Bluff, CA, Medford and Merrill, WI. 800-824-7744; www.sierrapacificwindows.com
B. Substitutions: Not permitted.

2.2 MATERIALS
A. Wood: Ponderosa Pine, kiln dried to moisture content of 6 to 12 percent at time of fabrication; water-repellent preservative treated in accordance with WDMA I.S.4.
   1. Grade and Grain:
      a. Interior Exposed Wood: Solid clear, suitable for staining or painting.
B. Aluminum Cladding: Extruded 6063 T5 grade aluminum.
   1. Frame Cladding Thickness: 0.062 inch.
   2. Panel Cladding Thickness: 0.075 inch.
C. Glazing: Provide manufacturer’s standard glazing material.
1. Insulated Glass (IG): 3/4 inch total thickness separated by 1/2 inch silicone foam Super Spacer® system from Edgetech.

2.3 COMPONENTS

A. Hardware:
   1. Multi-point Locking System:
      a. Active Leaf: 3-point lock.
   2. Lever handle with key lock controls engaging and releasing of bolts at head and sill.
      a. Handle Style: [Munchen]
   3. Deadbolt.
   4. Latch.
   5. Hinges: Standard butt hinge, 4 inches by 4 inches, [adjustable hinge, includes set and guide hinges].
      a. Provide three hinges on 80 inch and 82 inch height doors.
   6. Strike Plates: Door manufacturer’s heavy gage type.
   7. Head and Sill Strike Plates: Stainless Steel. Door manufacturer’s heavy gage type.

B. Sill: Extruded aluminum sill with pultruded fiberglass threshold /thermal break.
   1. Strike plate: Stainless Steel.
   2. Strike plate anchor: Glass-filled Nylon.

C. Weatherstripping:
   3. Panel Tops: Leaf type weatherstrip.
   4. Panel Bottoms: Leaf type weatherstrip.

D. Drip Cap: Extruded aluminum clad drip cap factory mounted to frame.

2.4 FABRICATION

A. Fabricate units that are reglazable from interior without dismantling.
B. Factory assemble unit to include frame, panels, weatherstripping, applied jamb extension, astragals, drip cap, and operating hardware.

C. Basic Jamb:
   1. Basic Jamb Width: 4-9/16 inches.

D. Frame Head: Fabricate with stainless steel strike plate for the multi-point lock system.

E. Panels:
   1. Stile and Rail Thickness: 2-1/4 inches.
   3. Top Rail Width: 4-5/8 inches.
   5. Attach solid, edge-glued rails to laminated engineered stiles with 5/8 inch by 4 inch fluted dowels. Seal with exterior glue.
   6. Fabricate with phenolic high density laminate moisture vapor barrier laminated to both sides of stiles.

F. Glued and Laminated Components: Comply with ASTM D 5572 and ASTM D 5751.

G. Cladding:
   1. Clad exterior wood surfaces with extruded aluminum.
   2. Fabricate frame cladding to meet frame weatherstripping.
   3. Seal clad frame corners with silicone, along with butyl pads, and secure with stainless steel screws.
   4. Fabricate frame extrusion with continuous integral nail flange.
5. Fabricate exterior of frame with accessory groove to accept retrofit trim system or clad brickmould.

H. Glazing: Fabricate door unit with fifteen lites.

I. Muntins:
1. Fabricate interior simulated divided lite (simulite) bars of wood.
2. Fabricate exterior simulated divided lite (simulate) bars of aluminum clad.
3. Permanently apply muntins to both interior and exterior of glass surface using VHB acrylic adhesive tape.
4. Muntin Profile and Width:
   a. Traditional: 7/8 inch.

J. Sill:
1. Outswing Doors: Fabricate sill with strike plate and anchor for multi-point lock system.

2.5 FINISHES

A. [Interior Exposed Wood: Factory apply acrylic latex primer.]

B. Exterior Finish Cladding: To be manufacturer’s pre-treated aluminum surface with baked on, electrostatically applied super durable polyester powder paint, zero-VOC finish conforming to specified AAMA 2604 or AAMA 2605 test procedures. Color specified from one of the seven available design collections. Please refer to our website www.sierrapacificwindows.com, or contact your SPW representative to view this expansive color palette.
   1. Manufacturer’s super durable polyester powder; 1.5 to 2.5 mil dry film thickness.
         1) Textured Collection.

C. Drip Cap: Match frame color.

D. Exposed Hardware:
   1. Interior / Exterior Operating Lever Handle / Escutcheon Set / Strike Plates: Satin nickel
   2. Hinges:
      a. Outswing Resista satin nickel

E. Sill:

PART 3 EXECUTION

3.1 EXAMINATION

A. Site Verification of Conditions: Verify installation conditions previously established under other sections are acceptable for product installation in accordance with manufacturer’s instructions.

B. Verify that field measurements are acceptable to suit door unit tolerances.

C. Verify sill plate is level.

D. Verify supports and anchors are correctly and securely positioned.

E. [Verify masonry surfaces are dry and free of excess mortar, sand, and other construction debris.]

F. [Verify wood frame walls are dry, clean, sound, well-nailed, free of voids, and without offsets at joints. Ensure that nail heads are driven flush with surfaces in opening and within 3 inches of the corner.]

G. Scheduling of installation implies that substrate and conditions are prepared and ready for product installation. Proceeding with installation implies installer’s acceptance of substrate and conditions.

3.2 PREPARATION

A. Coordinate door installation with wall flashings and other built-in components.
3.3 INSTALLATION
A. Install door units, hardware, and components in accordance with manufacturer’s instructions and approved shop drawings, in compliance with specified performance requirements, and to provide weathertight construction.
B. Anchor components rigidly and securely to building structure, plumb and level, accurately fitted, and free from distortion or defects.
C. Fit exposed connections to form tight hairline joints.

3.4 ADJUSTING
A. Adjust doors, hardware, and weatherstripping to provide tight fit at contact points, smooth operation, and weathertight closure.

3.5 CLEANING
A. Clean interior and exterior surfaces immediately after installation in accordance with manufacturer’s recommendations for cleaning and maintenance.
B. Remove temporary labels from surfaces.
C. Remove and replace glass damaged during construction period.

3.6 PROTECTION
A. Protect door units from damage or deterioration until Substantial Completion.

END OF SECTION

PART 4
CSI PRODUCT SPECIFICATION
SECTION 085213-3
ALUMINUM CLAD/WOOD WINDOWS
Standard Casement/Awning (WI)

Sierra Pacific Windows
P.O. Box 8489
Red Bluff, CA  96080
Toll Free Tel: 800.824.7744
Web: www.sierrapacificwindows.com

GENERAL

1.1 SECTION INCLUDES
A. Aluminum clad exterior/ wood interior Casement / Awning windows with hardware.

1.2 RELATED SECTIONS
A. Section 01330 - Submittal Procedures.
B. Section 01600 - Product Requirements.
C. Section 06100 - Rough Carpentry.
D. Section 06200 - Finish Carpentry.
E. Section 07900 - Joint Sealers.
F. Section 08810 - Glass and Glazing.
G. Section 09900 - Painting: Interior painting of primed wood frame, door and trim.

1.3 REFERENCES
A. AAMA - American Architectural Manufacturers Association:
B. AAMA/WDMA/CSA - American Architectural Manufacturers Association/Window and Door Manufacturers Association/Canadian Standards Association:
C. ANSI - American National Standards Institute:
   2. ANSI-SMA-1004 – Aluminum Tubing Framing Screens for Windows.
D. ASTM - American Society for Testing and Materials:
   2. ASTM C1048 - Standard Specifications for Heat-Treated Glass - Kind HS, Kind FT Coated and Uncoated Glass.
CSI PRODUCT SPECIFICATION

SECTION 085213-3

ALUMINUM CLAD/WOOD WINDOWS
Standard Casement/Awning (MI)


E. FS – Federal Specification
1. FS L-S-125B – Screen, Insect Non-Metallic.

F. IGCC - Insulated Glass Certification Council.

G. IGMA – Insulating Glass Manufacturers Alliance.


I. NFRC - National Fenestration Rating Council:

1.4 DEFINITIONS

A. Performance Class Designations:
1. R (Residential): Commonly used in one and two-family dwellings.
2. LC (Light Commercial): Commonly used in low-rise multi dwellings, low rise professional offices, libraries and low-rise motels.
3. CW or C (Commercial): Commonly used in low-rise and mid-rise building and factories, hotels and retail sales buildings.
4. AW or H (Heavy Commercial): Commonly used in high-rise and mid-rise buildings to meet increased loading requirements and limits on deflection and in buildings where frequent and extreme use of the fenestration products is expected. For example; hospitals, schools, institutions, dormitories, government or public buildings, and other buildings where heavy use of fenestration products is expected.

B. Performance Grade (PG) Designations: Actual design pressure that is designated by a number following the type and class designation in pounds force per square foot.

C. Minimum test size: The smallest size unit permitted for performance class (gateway test size). Products must be tested at the minimum test size or at a size larger than minimum test size to comply with requirements for performance class.

1.5 PERFORMANCE REQUIREMENTS.

A. Air infiltration (air leakage) shall not exceed the following when tested at 1.57 psf when tested in accordance with ASTM E283: 0.30 cfm per square foot of frame.

B. Water penetration resistance - There shall be no water penetration when tested at 7.52 psf pressure in accordance with ASTM E547.
CSI PRODUCT SPECIFICATION

SECTION 085213-3

ALUMINUM CLAD/WOOD WINDOWS

Standard Casement/Awning (WI)

1.6 SUBMITTALS

A. Shop Drawings: Submit under provisions of Section 01300.

B. [Product Data]: Submit manufacturer's catalog data on each product to be used in accordance with Section 01330. Include glazing system and two complete sets of color chips representing manufacturer's full range of available colors.

C. Samples: Submit corner section in accordance with Section 01330. Include glazing system and two complete sets of color chips representing manufacturer's full range of available colors.

1.7 QUALITY ASSURANCE

A. Manufacturer Qualifications:
   1. A manufacturer capable of fabricating wood windows that meet or exceed performance requirements indicated and of documenting this performance by inclusion in lists and by labels, test reports, and calculations.

B. Installer Qualifications:
   1. An installer acceptable to wood window manufacturer for installation of units required for this Project.

C. Product Requirements:
   2. Comply with published recommendations of glass manufacturers and with GANA's "Glazing Manual" unless more stringent requirements are indicated.

1.8 DELIVERY, STORAGE, AND HANDLING

A. Store products in manufacturer's unopened packaging in an upright position off the ground in a clean, dry area until ready for installation.

B. Prime or seal wood surfaces if more than 30 days between delivery and installation.

1.9 PROJECT CONDITIONS

A. Field Measurements: Verify wood window openings by field measurements before fabrication and indicate measurements on Shop Drawings.

B. 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 absolute limits.

1.10 WARRANTY

A. Warranty: Provide manufacturer's standard warranty as follows.
   2. Insulating Glass: 20-year limited warranty (Residential and Commercial).
   3. Exterior Clad Finish:
CSI PRODUCT SPECIFICATION

SECTION 085213-3

ALUMINUM CLAD/WOOD WINDOWS
Standard Casement/Awning (WI)

a. Commercial 2605 Metal Clad: 20-year limited warranty on metal clad coating against cracking, checking, color change, chalking or peeling (adhesion loss) in normal conditions; 10 year limited warranty on metal clad coating against cracking, checking, color change, chalking or peeling (adhesion loss) in extreme conditions.
b. Residential 2605 Metal Clad: 30-year limited warranty on metal clad coating against cracking or checking.
c. Commercial and Residential 2604 Metal Clad Warranty: 10-year limited warranty on metal clad coating against cracking, checking, color change, chalking or peeling (adhesion loss).

4. Interior Finish: 2-year limited warranty.
5. Warranty Labor: 2-year limited warranty.

PART 2 PRODUCTS

2.1 MANUFACTURERS

A. Acceptable Manufacturers: Sierra Pacific Windows, Red Bluff, CA, Medford and Merrill, WI. 800-824-7744; www.sierrapacificwindows.com

B. Substitutions: Not permitted.

2.2 APPLICATIONS/SCOPE

Refer to Window Schedule on the drawings for application and location.

A. Aluminum Clad Casement:
   1. Aluminum Clad Operating Casement as manufactured by Sierra Pacific Windows.
      a. Performance: CW-PG50, standard product, maximum size 36.1875 inches (919mm) by 84.1875 inches (2138mm). Single Units Only.
      b. Performance: CW-PG30, maximum size 42.1875 inches (1072mm) by 84.1875 inches (2138mm). Single Units Only. With Limit Device.
      c. Performance: LC-PG50, standard product, maximum size 36.1875 inches (919mm) by 72.1875 inches (1833mm). Single or Mulled Units.
      d. Performance: LC-PG25, standard product, maximum size 28.1875 inches (716mm) by 96.1875 inches (2443mm). Single or Mulled Units.
   2. Operating Hardware: Truth Encore E-Guard dual arm operator allowing sash to open 90 degrees. Standard adjustable hinges with optional butt hinges.
      a. Optional Coastal Corrosion finish.
   3. Locking Hardware: Single lever, multi-lock system.

2.3 GLAZING

A. Premium quality flat glass complying with ASTM C 1036.

B. Factory-Glazed Fabrication: Comply with requirements of Section 08810 and with AAMA/WDMA 101/1.S.2/NAFS.
   1. Safety Glass: Provide laminated and tempered products complying with testing requirements in 16 CFR 1201, for Category II materials.

C. Interior Glazed.

D. Glass Type: Standard Low-E Insulated Glass (IG).
   1. Optional glazing:
      a. Clear IG (no coatings)

E. Glass Type: Standard ¼” Monolithic Clear (no coatings).
F. Grilles
1. Type:
   a. Simulated Divided Lite (SDL): Combination of applied wood interior grille bars, spacer within the airspace of the IG, with applied exterior grille bars using superior 3M tape.
2. Profile:
   a. Interior Removable Wood Surround.
      1) Traditional, 7/8 inch (22 mm) width. (Surround with concealed clip only).
   b. GBG.
      1) 5/8 inch (16 mm) width Flat.
      2) 11/16 inch (17.5 mm) width Contour.
      3) 1 inch (25.4 mm) width Contour
   c. Simulated Divided Lite (SDL)
      1) Traditional 7/8 inch (22 mm) width.
3. Pattern:
   a. Equal.

2.4 CONSTRUCTION
A. Frame: 1-1/4" (32mm) thick frame, 0.050" (1.27mm) extruded aluminum, mitered corners mechanically fastened with injectable corner keys, and interior wood for head, sill and jamb, kiln dried to a moisture content of 6-12% at time of fabrication. Interior wood stops blind fastened from the perimeter of the frame.
B. Sash: 1-11/16" (44 mm) thick sash, 0.050" (1.27mm) thick extruded aluminum and wood interior, sash corners tenoned and mechanically fastened.
C. Interior: Solid wood species. Finish as scheduled
   1. Pine (standard).
D. Coreguard Plus: Wood parts are treated in accordance with WDMA I.S.4.
E. Extension Jambs: As indicated.
F. Weatherproofing: Dual weatherstrip system to include primary closed-cell foam weatherstrip on perimeter of frame with secondary PVC bulb type weatherstrip applied to all four sides of the sash.

2.5 FINISH
A. Interior Finish: [___]
   1. Primed Wood.
B. ** NOTE TO SPECIFIER ** Delete if not required.

2.6 HARDWARE
A. Finish:
   1. White. (Standard)

2.7 SCREENS
A. Removable insect screens provided for each operating sash, fitted to the interior of the window unit, with integral lift rail and top leaf springs.
B. Screen fabric is 18x16 fiberglass mesh. Charcoal fiberglass cloth standard. Charcoal aluminum, bright aluminum, better vue and ultra vue mesh optional.
CSI PRODUCT SPECIFICATION
SELECTION 085213-3
ALUMINUM CLAD/WOOD WINDOWS
Standard Casement/Awning (WI)

C. Screen Finish: [Matched to selected hardware finish].

2.8 FABRICATION
A. Fabricate wood windows in sizes indicated.
B. Weather Stripping: Provide full-perimeter weather stripping for each operable sash and ventilator, unless otherwise indicated.
C. Factory machine windows for openings and for hardware that is not surface applied.
D. Mullions: Provide mullions and cover plates as shown, matching window units, complete with anchors for support to structure and installation of window units.

PART 3 EXECUTION

3.1 EXAMINATION
A. Do not begin installation until substrates have been properly prepared.
B. If substrate preparation is the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding.

3.2 PREPARATION
A. Clean surfaces thoroughly prior to installation.
B. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.

3.3 INSTALLATION
A. Install in accordance with manufacturer's instructions.

3.4 PROTECTION
A. Protect installed products until completion of project.
B. Touch-up, repair or replace damaged products before Substantial Completion.
C. Finished Windows: Replace windows that are damaged or do not comply with requirements. Windows may be repaired or refinished if work complies with requirements and shows no evidence of repair or refinishing.

END OF SECTION
CSI PRODUCT SPECIFICATION

SECTION 085213-8

METAL-CLAD WOOD WINDOWS
Westchester Double/Single Hung
Westchester Double Hung Picture/Transom

Sierra Pacific Windows
P.O. Box 8489
Red Bluff, CA  96080
Toll Free Tel: 800.824.7744
Web: www.sierrapacificwindows.com

GENERAL

1.1  SECTION INCLUDES

A.  Aluminum clad exterior/ wood interior Westchester Double/Single Hung windows with 
    hardware, Westchester Picture and Transom windows.

1.2  RELATED SECTIONS

A.  Section 01330 - Submittal Procedures.
B.  Section 01600 - Product Requirements.
C.  Section 06100 - Rough Carpentry.
D.  Section 06200 - Finish Carpentry.
E.  Section 07900 - Joint Sealers.
F.  Section 08810 - Glass and Glazing.
G.  Section 09900 - Painting: Interior painting of primed wood frame, door and trim.

1.3  REFERENCES

A.  AAMA - American Architectural Manufacturers Association:
   1.  AAMA 2604 - Voluntary Specification, Performance Requirements and Test
       Procedures for High Performance Organic Coatings on Aluminum Extrusions and 
       Panels.
   2.  AAMA 2605 - Voluntary Specification, Performance Requirements and Test
       Procedures for High Performance Organic Coatings on Aluminum Extrusions and 
       Panels.

B.  AAMA/WDMA/CSA - American Architectural Manufacturers Association/Window and Door 
    Manufacturers Association/Canadian Standards Association:
       and Unit Skylights.

C.  ANSI - American National Standards Institute:
   1.  ANSI Z97.1 - American National Standard for Safety Glazing Materials Used in 
       Buildings - Safety Performance Specifications and Methods of Test.
   2.  ANSI-SMA-1004 – Aluminum Tubing Framing Screens for Windows.
CSI PRODUCT SPECIFICATION

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METAL-CLAD WOOD WINDOWS
Westchester Double/Single Hung
Westchester Double Hung Picture/Transom

D. ASTM - American Society for Testing and Materials:
2. ASTM C1048 - Standard Specifications for Heat-Treated Glass - Kind HS, Kind FT Coated and Uncoated Glass.

E. IGCC - Insulated Glass Certification Council.
F. IGMA – Insulating Glass Manufacturers Alliance.
G. NFRC - National Fenestration Rating Council:

H. WDMA I.S.4 – Industry Specification for Preservative Treatment in Millwork.

1.4 DEFINITIONS
A. Performance Class Designations:
1. R (Residential): Commonly used in one and two-family dwellings.
2. LC (Light Commercial): Commonly used in low-rise multi dwellings, low rise professional offices, libraries and low-rise motels.
3. CW or C (Commercial): Commonly used in low-rise and mid-rise building and factories, hotels and retail sales buildings.
4. AW or H (Heavy Commercial): Commonly used in high-rise and mid-rise buildings to meet increased loading requirements and limits on deflection and in buildings where frequent and extreme use of the fenestration products is expected. For example; hospitals, schools, institutions, dormitories, government or public buildings, and other buildings where heavy use of fenestration products is expected.

B. U-Value: Is a thermal transmittance, or the heat loss through a structural element. It is the rate of transfer of heat through a structure, divided by the difference in temperature across that structure.

C. SHGC: The solar heat gain coefficient of the total fenestration system represents the solar heat gain through the system relative to the incident solar radiation striking the exterior surface. Solar Heat Gain Ratings are determined in accordance with NFRC 200.
CSI PRODUCT SPECIFICATION

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METAL-CLAD WOOD WINDOWS

Westchester Double/Single Hung

Westchester Double Hung Picture/Transom

D. Vtc: The visible transmittance of the total fenestration system is the transmittance across the visible portion of the solar spectrum where sensitivity to each wavelength is weighted by the eye’s response. Visible Transmittance Ratings are determined in accordance with NFRC 300.

E. Performance Grade (PG) Designations: Actual design pressure that is designated by a number following the type and class designation in pounds force per square foot.

F. Minimum test size: The smallest size unit permitted for performance class (gateway test size). Products must be tested at the minimum test size or at a size larger than minimum test size to comply with requirements for performance class.

1.5 PERFORMANCE REQUIREMENTS.

A. Air infiltration (air leakage) shall not exceed the following when tested at 1.57 psf when tested in accordance with ASTM E283: 0.30 cfm per square foot of frame.

B. Water penetration resistance - There shall be no water penetration when tested at 7.52 psf pressure in accordance with ASTM E547.

C. Structural load testing - Product shall meet the damaged and permanent deflection pass/fail criteria as stated in AAMA/WDMA/CSA 101 I.S.2/A440-11 when tested in accordance with ASTM E330.

D. Sound Transmission Class (STC) – Product shall meet an STC rating of [_____] when tested in accordance to ASTM E413 and ASTM E90.

1.6 THERMAL PERFORMANCE RATING

****************************************************************************************************************

Repeat following paragraph format for each Glazing Type required. Insert Glazing Type required and its corresponding performance ratings. Refer to Sierra Pacific Windows’ Thermal Product Performance Guide.

****************************************************************************************************************

A. Glazing Type: Clear Cardinal Spacer
   1. U-Value, NFRC 100: .45
   2. Solar Heat Gain Coefficient (SHGC), NFRC 200: .55
   3. Visible Light Transmission (Vtc), NFRC 300: .58

1.7 SUBMITTALS

A. Shop Drawings: Submit under provisions of Section 01300.

B. [Product Data]: Submit manufacturer's catalog data on each product to be used in accordance with Section 01330. Include glazing system and two complete sets of color chips representing manufacturer's full range of available colors.

C. Samples: Submit corner section in accordance with Section 01330. Include glazing system and two complete sets of color chips representing manufacturer's full range of available colors.

085213-3 Weschester Double Hung
CSI PRODUCT SPECIFICATION

SECTION 085213-8

METAL-CLAD WOOD WINDOWS
Westchester Double/Single Hung
Westchester Double Hung Picture/Transom

1.8 QUALITY ASSURANCE

A. Manufacturer Qualifications:
   1. A manufacturer capable of fabricating wood windows that meet or exceed
      performance requirements indicated and of documenting this performance by
      inclusion in lists and by labels, test reports, and calculations.

B. Installer Qualifications:
   1. An installer acceptable to wood window manufacturer for installation of units required
      for this Project.

C. Product Requirements:
      Voluntary Performance Specification for Windows, Skylights and Glass Doors," for
      definitions and minimum standards of performance, materials, components,
      accessories, and fabrication unless more stringent requirements are indicated.
   2. Comply with published recommendations of glass manufacturers and with GANA's
      "Glazing Manual" unless more stringent requirements are indicated.

1.9 DELIVERY, STORAGE, AND HANDLING

A. Store products in manufacturer's unopened packaging in an upright position off the ground in
   a clean, dry area until ready for installation.

B. Prime or seal wood surfaces if more than 30 days between delivery and installation.

1.10 PROJECT CONDITIONS

A. Field Measurements: Verify wood window openings by field measurements before
   fabrication and indicate measurements on Shop Drawings.

B. 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 absolute limits.

1.11 WARRANTY

A. Warranty: Provide manufacturer's standard warranty as follows.
   2. Insulating Glass: 20-year limited residential warranty (Residential and Commercial).
   3. Exterior Clad Finish:
      a. Commercial AAMA 2605 Metal Clad: 20-year limited warranty on metal clad
         coating against cracking, checking, color change, chalking or peeling (adhesion
         loss) in normal conditions; 10 year limited warranty on metal clad coating against
         cracking, checking, color change, chalking or peeling (adhesion loss) in extreme
         conditions.
      b. Residential AAMA 2605 Metal Clad: 30-year limited warranty on metal coating
         against cracking or checking.
      c. Commercial and Residential AAMA 2604 Metal Clad Warranty: 10-year limited
         warranty on metal clad coating against cracking, checking, color change, chalking
         or peeling (adhesion loss).
   4. Interior Finish: 2-year limited warranty.
   5. Warranty Labor: 2-year limited warranty.
CSI PRODUCT SPECIFICATION

SECTION 085213-8
METAL-CLAD WOOD WINDOWS
Westchester Double/Single Hung
Westchester Double Hung Picture/Transom

PART 2 PRODUCTS

2.1 MANUFACTURERS

A. Acceptable Manufacturers: Sierra Pacific Windows, Red Bluff, CA, Medford and Merrill, WI. 800-824-7744; www.sierrapacificwindows.com

B. Substitutions: Not permitted.

2.2 APPLICATIONS/SCOPE

Refer to Window Schedule on the drawings for application and location.

A. Westchester Double/Single Hung:
   1. Aluminum Clad Westchester Operating Double/Single Hung as manufactured by Sierra Pacific Windows.
      a. Performance: LC-PG50, standard product, maximum size 47-1/2 inches (1207mm) by 83-1/2 inches (2121mm). Single unit only.
      b. Performance: LC-PG30, maximum size 59-1/2 inches (1511mm) by 107-1/2 inches (2731mm). Single unit only.
   2. Jamb width: standard 4-9/16 inches (116 mm);
   3. Operating Hardware: Combination lock and tilt mechanism with concealed tilt latches in the sash stile.

2.3 GLAZING

A. Premium quality flat glass complying with ASTM C 1036.

B. Factory-Glazed Fabrication: Comply with requirements of Section 08810 and with AAMA/WDMA 101/I.S.2/NAFS.
   1. Safety Glass: Provide laminated and tempered products complying with testing requirements in 16 CFR 1201, for Category II materials.

C. Reglazable sandwich-glazed double taped with closed-cell foam glazing tape and silicone sealant to the exterior.


E. Grilles
   1. Type: Simulated Divided Lite (SDL): Combination of applied wood interior grille bars, spacer within the airspace of the IG, with applied exterior grille bars using superior Very High Bonded (VHB) tape.
   2. Profile: Traditional 7/8 inch (22 mm) width.

2.4 CONSTRUCTION

A. Operating Frame: 5/8” inch (16mm) thick frame, 6/4 pine finger joint [solid] head and jambs kiln dried to a moisture content of 6-12% at time of fabrication. Mitered 0.063” (1.60mm) extruded aluminum exterior with integral nail fins. Sloped sill fabricated with rot and thermally resistant 0.078” (1.98mm) extruded vinyl with integral nail fin, with snap fitted extruded
CSI PRODUCT SPECIFICATION

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METAL-CLAD WOOD WINDOWS
Westchester Double/Single Hung
Westchester Double Hung Picture/Transom

aluminum sill cover color matched to exterior finish. Side jambs have PVC endcap water management system with integral angled installation leg.

1. Overall frame depth is 5-3/4 inches (147mm), standard

B. Operating Sash: 1-3/4" (44 mm) thick sash, wood stiles and rails slot and tenon joined at the bottom rail and top rail. Top and bottom sash checkrails are dovetailed to the stiles. Stiles and rails are mechanically fastened and glued with the stiles running through. Extruded 0.055" (1.39 mm) aluminum sash stiles and top rail, 0.063" extruded aluminum bottom rail, are assembled and fastened to the wood sash via a vinyl clip system. Fiberglass interlock on top and bottom sash.

C. Interior: Solid wood species. Finish as scheduled
1. Pine (standard).

D. CoreGuard Plus™: Wood parts are dip treated in accordance with WDMA I.S.4.

E. Weatherproofing: Combination pile weatherstipping w/center fin and a compressible bulb weatherstrip. Pile weatherstrip on sash at checkrails. Compressible bulb weatherstrip at bottom of bottom sash rail and hollow bulb weatherstrip on top rail of upper sash.

2.5 FINISH

A. Interior Finish:
1. Primed Wood.

B. Exterior Finish: To be manufacturer’s pre-treated aluminum surface with baked on, electrostatically applied super durable polyester powder paint, zero-VOC finish conforming to specified AAMA 2605 or AAMA 2604 (Textured Collection only) test procedures. Color specified from one of the industry leading 75 color palette. Please refer to our website www.sierrapacificwindows.com, or contact your SPW representative to view this expansive color palette

2.6 HARDWARE

A. Finish:
1. Satin Nickel.

2.7 SCREENS

A. Screen Frame: Flexscreen (standard) with PVC coated spring steel frame with integrated insect screen mesh with no exposed fasteners. Screen frame profile to measure 11/64" x 5/16". Full screen fitted in pocketed screen channel for full engagement and removable.

B. Screen fabric: 18x16 Charcoal fiberglass mesh (standard).

C. Screen Finish: Matched to selected exterior clad color.

2.8 FABRICATION

A. Fabricate wood windows in sizes indicated.

B. Weather Stripping: Provide full-perimeter weather stripping for each operable sash and ventilator, unless otherwise indicated.
CSI PRODUCT SPECIFICATION

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METAL-CLAD WOOD WINDOWS
Westchester Double/Single Hung
Westchester Double Hung Picture/Transom

C. Factory machine windows for openings and for hardware that is not surface applied.
D. Mullions: Provide mullions and cover plates as shown, matching window units, complete with anchors for support to structure and installation of window units.

PART 3 EXECUTION

3.1 EXAMINATION
A. Do not begin installation until substrates have been properly prepared.
B. If substrate preparation is the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding.

3.2 PREPARATION
A. Clean surfaces thoroughly prior to installation.
B. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.

3.3 INSTALLATION
A. Install in accordance with manufacturer’s instructions.

3.4 PROTECTION
A. Protect installed products until completion of project.
B. Touch-up, repair or replace damaged products before Substantial Completion.
C. Finished Windows: Replace windows that are damaged or do not comply with requirements. Windows may be repaired or refinished if work complies with requirements and shows no evidence of repair or refinishing.

END OF SECTION
Open A World Of Extraordinary Doors.
At Sierra Pacific, we've been building exceptional light commercial and residential door designs for some time. With new advancements in door technology, we now have even more configurations to share, each created to highlight or complement any design you can imagine, each crafted with the same meticulous attention to detail and longevity as our windows.

On the following pages, you'll find extraordinary options in specialty, swinging, sliding and entrance doors. Come on in and find the idea your next project needs to open up its full potential.

MORE POSSIBILITIES, MORE ATTENTION TO DETAIL.
The ability to make walls completely disappear makes our Specialty Door lineup truly something special. Transform your living space with unobstructed views in a wide range of sizes, configurations and design options. With the exception of our Lift & Slide doors, all of our Specialty Door designs are also available as windows to fully complement your living space.
Bi-fold Doors

Hinged to fold and glide with the lightest touch, our bi-fold doors are available up to 45 feet wide and 10 feet high. Stack them to one or both sides, swing them in or out, go around 90-degree corners. You can even incorporate an access door panel to go in or out without moving your entire wall. And now it's available in our FeelSafe line, for storm-prone areas.

With A Feather Touch.
Bi-fold Doors & Windows.
Multi-Slide

Slide them in one direction. Slide them in the other direction. Stack them to one side, or slide them into a pocket in the wall. Turn a 90-degree corner into a stunning conversation.

Our multi-slide doors and windows are engineered to give you years of silky-smooth service.

MULTI-AMAZING.

Photo: Charles Davis Smith – AIA & Matt Fajkus Architecture
Photo: A Finer Touch Construction
Photo: A Finer Touch Construction
Combine a multi-slide door and window to effortlessly open a wall and build in bar to an open dining area.
Lift And Slide

No wonder it’s being called a game changer. Ingenious mechanics raise the door panels to glide effortlessly, then lower them down to seal out the elements.

And Defy Gravity.

With an advanced weep system to handle rainfall exposure, certification up to PG50 and a pocketing configuration, this door changes everything.
Every corner of a living space provides more opportunities for expanded views and seamless transition, which is why we’ve engineered our bi-fold and multi-slide doors and windows to take full advantage of 90 and 270 degrees. By reducing mass and increasing glass, we’re able to transform a normal corner into a point of interest with a beautiful view.
When you rethink everything, doors don’t just open, they disappear completely. This is the idea behind our pocketing systems for our multi-slide doors and windows and lift & slide doors.

With pockets hidden in the walls, even the widest expanses of glass can be stowed out of sight, leaving you nothing but open air and spacious living.
The Possibilities Really Are Wide Open.

Experiment with space, with light, with transitions, with boundaries. No matter how expansive your opening or how specific your design needs, our specialty doors are created to please. If it’s a design you like, chances are we’ve done it. If not, we’re more than happy to find just the right configuration to fit your space and your life.
Swinging Doors

LITTLE DETAILS, BIG IMPRESSION.

A grand entrance, an elegant transition between inside and outside, both doors operable, just one door operable - no matter what you need, you’ll find every one of our swinging doors carries the meticulous attention to detail and innovative engineering that sets Sierra Pacific windows and doors apart.
So Many Styles To Choose.

Consider adding a radius top to your swing doors, or experiment with the height and width of your door. Look at a Shasta door with one fixed panel and a sliding screen.

Anytime you consider a swinging door from Sierra Pacific, you have a lot of other things to consider.

Inswing, Outswing, Any Way You Like It.

The movement of a door affects movement through the room. With swinging doors offered in nearly every configuration imaginable, we think you'll find a Sierra Pacific combination that moves you.
When full glass isn’t right, panels add a richness and traditional aesthetic that adds warmth and charm. Experiment with our combinations, and find one that opens up a new world of design sensibility.
You Could Go Dutch.

Extra ventilation? Easy pass through? Whenever the reason, you’re sure to love the utility of a door with a top and bottom panel that operate independently. Sometimes it’s smart to be this functional.

The combinations of vertical lengths (stiles) and horizontal lengths (rails) give panel doors their unique textured design which can create a striking accent between two spaces.
How do you make an entrance open, inviting, beautiful and secure? You trust our exceptionally well-crafted doors. From fully glazed to partially paneled, radius top to square and contemporary, Sierra Pacific doors make an entrance statement that welcomes all to extraordinary design.
With Entrance Doors That Welcome Your Design.

Create a remarkable and distinctive look with our new pivot doors. Coming soon.

Photo: ©Gibeon Photography
Commercial

Made with thick extruded aluminum cladding and equipped with heavy-duty construction, our commercial swinging doors come in beautiful design configurations engineered for years of repeated swinging.
When you don't have enough room for a door that swings in or out, or if you just like the elegance of a door that takes up very little space, you'll find our sliding patio doors a beautiful choice. They're available in narrow or French rails, and crafted with precision.

Sliding Doors

**Silky Smooth, Space-Saving.**

When you don't have enough room for a door that swings in or out, or if you just like the elegance of a door that takes up very little space, you'll find our sliding patio doors a beautiful choice. They're available in narrow or French rails, and crafted with precision.
SLIDING DOORS

A MATERIAL IMPROVEMENT.
Choose exteriors with luxurious wood or low maintenance, thick aluminum cladding. You’ll also find vinyl for new construction or replacement. All share the same exceptional quality; all will give you years of flawless operation.

PRACTICAL, AND CONFIGURABLE.
In addition to being a smart choice for limited space, our sliding doors come in a number of eye-catching configurations to turn a large part of your wall into a large and practical combination of doors and expansive views.
Stunning Views. Storm-Ready.

Our FeelSafe sliding patio doors are constructed of the strongest, laminated glass to withstand the ugliest storms, while the interior retains the beauty of natural wood.

A swinging door capable of withstanding hurricane force winds is something to behold. And if you live in a coastal region, it’s something to live behind.

Extra engineering and structural reinforcement give our FeelSafe patio doors plenty of strength to withstand the toughest conditions. Even our new FeelSafe bi-fold doors meet Zone IV/50WZ requirements, all while basking in the most beautiful sunsets.

Beautiful Inside, Tough Outside.

Our FeelSafe sliding patio doors are constructed of the strongest, laminated glass to withstand the ugliest storms, while the interior retains the beauty of natural wood.
Looking to get a little more inventive with your door style? Look no further than our selection of matching sidelites and transoms. They’ll turn any beautiful Sierra Pacific door into something even more dramatic.
A transom above a doorway can be a beautiful way to let in more light and give your space a roomier appearance. Our transoms can be fitted with a sash and frame to match your door style, or they can be installed as a direct set to let in even more light.

Stationary or vented, add sidelites that are perfectly integrated with your door style. From recognizing a visitor to some additional ventilation, you'll love the expanded view.
Dressing Up Your Doors.

There are so many ways to customize your new Sierra Pacific doors and windows, you’ll be able to create the exact look you want. Accessorize your doors to make a statement, or to blend in seamlessly with your design.

**Hardware**

Your door handles and locking mechanisms should be pleasing to the eye and to the touch. So we make ours from forged brass and finish them with equal parts beauty and toughness.

**Exterior**

**Colors Inspired By Nature.**

Extruded aluminum twice as thick as roll-form cladding is coated with a unique, industry-leading AAMA 2604 or 2605 powder-coated finish in an unprecedented 75 colors, with textured finishes and custom color matching also available.

**Trim To Accent Your Design.**

Several choices of exterior trim in wood or aluminum cladding bring your Outside design together completely.

**THE NATURAL BEAUTY OF WOOD.**

The way natural wood enriches your interior can’t be overstated. We offer nine species of exceptional grain and depth to give your interior design a timeless appeal. In fact, as long as the wood is viable, we’ll craft your door out of almost any species you choose.
Even Your Glass Can Be Customized.

Solar heat gain, damaging UV rays, cold climates, hot climates, privacy concerns, all can be fine-tuned to your exact needs thanks to a range of glazing and decorative glass options.

Simulated divided lite grilles can take an ordinary sheet of glass and transform it into a contemporary or traditional masterpiece. To that end, we offer many varieties of simulated divided lite bar profiles and configurations to give your doors a style all their own.

Light Patterns To Transform Your Look.

Solar heat gain, damaging UV rays, cold climates, hot climates, privacy concerns, all can be fine-tuned to your exact needs thanks to a range of glazing and decorative glass options.

Simulated divided lite grilles can take an ordinary sheet of glass and transform it into a contemporary or traditional masterpiece. To that end, we offer many varieties of simulated divided lite bar profiles and configurations to give your doors a style all their own.

See more decorative glass examples at SierraPacificWindows.com

Contemporary Clad: 5/8" 7/8" 1" 1 - 1/4" 2"

Traditional Clad: 5/8" 7/8" 1" 1 - 1/4" 2"

Putty Clad: 5/8" 7/8" 1" 1 - 1/4" 2"

No-Metal TrueWarm® Edge Spacer.

Acrylic barrier. Internal air cavity. No-Metal TrueWarm® Edge Spacer.

Photo: Vanguard Properties
• Available in both inswing and outswing configurations.
• Available in wood exterior or fully extruded, durable aluminum clad exterior.
• Wood species includes Ponderosa Pine, Douglas Fir, Knotty Alder, and other species upon request.
• Insulated aluminum clad exterior (suitable for 5AAMA 2808 & AAMA 2809 powder core colors and modified limitations).

THE E-3 DOOR SYSTEM
• Available with 1 3/4" or 2 1/4" thick panels.
• Maximum panel height: 100" for 2 1/4" panel, 96" for 1 3/4" panel.
• Maximum panel width: 96".
• Maximum panel weight: 230 pounds.
• E-3 hardware has been tested in-house to LC-25 (outswing only; 36" x 96" – 3 panel configuration).

THE E-4 DOOR SYSTEM (Clad Outswing Only)
• Available with 2 1/4" thick panel.
• Maximum panel height: 102".
• Maximum panel width: 96".
• Maximum panel weight: 350 pounds.

SINGLE PANEL, BI-FOLD & ACCESS DOORS
• Matching single panel swing doors and sidelights are available.
• Access panels are available in most configurations and allow access to the folding panels in the closed position.
• Trim has an accent panel feature standard multi-point locking systems with trim set.

CORNER MULLS
• 90 degree corner mull is available in every configuration with specific operations.
• 180 degree corner mull is available in every configuration with specific operations.

BI-FOLD WINDOWS
• The bi-fold window accommodates openings up to approximately 25’ wide and 7’ tall.
• 3/4” x 1/4” minimum sash size.
• E-3 hardware.
• Multi-point locking hardware is available on each sash.
• Window must feature 3 5/8” CA links and rails.
• Hardware finish options are bronze or satin nickel.

HARDWARE
• Heavy-duty hinges with maintenance-free bearings for corrosion resistance and smooth operation. The number of hinges varies with the panel size and height. The hinges are available in 320 Brushed minimum mill. PVD trim and bronze powder coat finishes.
• “D” shaped pull handles are integrated into the design for ease of operation.
• Symmetry multi-point locks. The length of the top & bottom rails can vary according to panel size and height. The hardware is available in limited aluminum, PVD trim and bronze powder coat finishes.
• Access door trim is available in several profiles and finishes.
• The dual swinging head track is powder coated to match the frames, while the moving and all-wood product head track is 304 Brushed powder coat.

SILL TRACK
• Sills are available in our standard water resistant design, as well as low profile ADA or U-channel designs in a variety of standard finishes.
• Standard products with our standard sill carry the standard Sierra Pacific Limited Warranty. Select a copy from your sales representative or visit sierrapacificwindows.com to download.

WARRANTY
• Limited Warranty.
Multi-Slide Door & Window Features and Specifications.

- Available in stacking or pocketing units.
- Available in single or multi-directional configurations.
- Wood species include Ponderosa Pine, Douglas Fir, Knotty Alder and other species by request.
- Enamelized aluminum clad exterior features TAAAMA 2600 & AAAMA 2604 powder coat colors and anodized finishes.
- The door panels and window sash meets the profile of other Sierra Pacific products for a clean, consistent look.
- Acceptance of openings up to 32” wide and 10’ tall.
- Single-direction, up to 3 panels.
- Multi-directional, up to 10 panels.
- 1 3/4” or 2 1/4” Panel thickness.
- 2 3/4” Max panel height 84”, min max height: 1 1/2”.
- 1 3/4” Min panel width 48”, max height 96”.
- Available with 3 3/8” or 3 5/8” rails.
- Panels are clad in .035” main heavy-duty extruded aluminum.
- Full selection of performance glazing and designer options including hardwood finishes, decorative glaze, and grilles.
- Protected by our exclusive CoreGuard Plus™, the industry’s best wood protection.

Sill Track
- Three heights for all tracks: 1 1/8”, 1 1/4”, 1 5/8”.
- Sill track is protected with a finished sill cap. (Track: Floor-Hall Track, Thin Floor-Shor Track). Sill track is protected in install to the floor and then flooring is built up to 1/8” at the toe of the track.
- Tracks are made of extruded aluminum and covered with stainless steel cap.
- When the finished surface is complete, minimum rail cap is in place than visible.

Multi-Slide Windows
- Sierra Pacific Windows multi-slide windows enjoy all of the same great features and construction as our multi-slide doors.
- Create expansive openings up to 23’ wide, perfect for a pass through to an outdoor living space.

Hardware
- Two heavy-duty 2 1/8” stainless steel precision bearing rollers are installed in each panel for a smooth-as-silk operation.
- Multi-point lock system on leading panel.
- Interior finger pull thumb turn activates the multi-point locking mechanism.
- Keyed lock available.

Head Track
- The head track and side jambs are finished to match the clad panel color. The wood exterior units the head track is 024 Bronze powder coat.

Photo: Charles Davis Smith – AIA & Matt Fajkus Architecture
Lift & Slide Features And Specifications.

- Available in stacking or pocketing units.
- Single and bi-parting operations.
- Wood species include Ponderosa Pine, Douglas Fir, Knotty Alder and other species by request.
- Extruded aluminum clad exterior features AA AAMA 2404 and AAMA 2404 powder coat colors and anodized finish.
- Accommodates openings up to 45' wide and 10' tall.
- Single direction, up to 10 panels.
- Multi-directional, up to 15 panels.
- Continuous rolling hinge in an integral part of the frame extrusion.
- Factory applied extruded aluminum drip cap standard.
- Rail width 4 5/8". Rail rail heights 4 5/8” or 6 5/8”. Rail rail heights 6 5/8” or 12”. Panels greater than 60” width require 12” bottom rail.
- 1 1/2” Main panel height 12’6”, min panel width 72”.
- Dependents on site and performance requirements, optional structural upgrades available.
- Jamb widths are 7 1/2”, 8 1/2”, 9 1/2”, 10 1/2”, 11 1/2”, and 12” 2, 3, 4, and 6 tracks respectively including options applied to the interior.
- Heavy duty extruded aluminum cladding, .022” thick frame & .035” back panel.
- Standard glass options apply although some obscure glass patterns may not be available due to size limitations.
- Protected by our exclusive CoreGuard Plus™, the industry’s best wood protection.

Hardware
- Hardware system operates with lower carriages that roll on an extruded aluminum sill track when the panels are in the stack position. Carriages and bottom track support the full panel weight. Head tracks guide the door panels during operation.
- Removable handle is standard on stacking systems. Removable handles are standard on pocketing systems. It is tall and lower panels and moves panels along the sill track.
- Multiplaque locked on landing and panel edge. This engages the lock bolts attached to the side jamb.
- Non-keyed flush pull on exterior stile of leading active panel.

Sill Track
- Innovative exclusive sill design. Low profile drain track made of thermally broken extruded aluminum in a dark bronze anodized finish. Intruding water drains through the exterior weep gates or via installed drain tubes.
- Standard height is 1”.

Head Track
- Innovative exclusive sill design. Low profile drain track made of thermally broken extruded aluminum in a dark bronze anodized finish. Intruding water drains through the exterior weep gates or via installed drain tubes.
- Standard height is 1”.

Removeable handle

SlimLine handle

Removable handle

Clad Lift & Slide Door Operation Configuration - Pocket (Multi Direction)

Clad Lift & Slide Door Operation Configuration - Pocket (Single Direction)

Clad Lift & Slide Door Operation Configuration - Stacked (Single Direction)

Clad Lift & Slide Door Operation Configuration - Stacked (Multi Direction)
Exceptional Doors, Exceptional Support For Architects.

Sierra Pacific windows and doors are backed by our fully transferable 30/20 Limited Warranty (20/10 for commercial products). It provides 30-year residential AAMA 2605 clad exterior coating coverage and 10-year AAMA 2604 clad exterior coating coverage. For warranty specifics, please refer to SierraPacificWindows.com.

Vertical Integration Sets Us Apart.

Sierra Pacific Windows is part of Sierra Pacific Industries, which owns 1.9 million acres of timberland in California and Washington state. Our vertical integration gives us total control of manufacturing, from planted seed to delivered window and door. The result? Nothing but the best gets passed on to you.

All Doors Should Be This Deeply Protected.

Our wood windows and doors are protected by CoreGuard Plus™ wood treatment, which is to say all our wood products repel water, insects and rot with enough strength to be thoroughly tested in Hawaiian rainforests, and still remain completely intact.

A Warranty As Tough As Our Products.

Sierra Pacific windows and doors are backed by our fully transferable 30/20 Limited Warranty (20/10 for commercial products). It provides 30-year residential AAMA 2605 clad exterior coating coverage, 20-year insulated glass coverage, 10-year parts coverage, 2-year labor coverage, and 5-year AAMA 2604 clad exterior coating coverage. For warranty specifics, please refer to SierraPacificWindows.com.
For support and answers to any questions, call 800-824-7744, or visit SierraPacificWindows.com
Photo of East Façade from Eastern Property Line
Photo of East Façade from 2nd Floor
Photo of South Façade from Southern Property Line
Photo of West Façade from Sycamore Ave.