# MONTGOMERY COUNTY HISTORIC PRESERVATION COMMISSION
## STAFF REPORT

<table>
<thead>
<tr>
<th>Address:</th>
<th>30 West Kirke St., Chevy Chase</th>
</tr>
</thead>
<tbody>
<tr>
<td>Resource:</td>
<td>Contributing Resource (Chevy Chase Village Historic District)</td>
</tr>
<tr>
<td>Applicant:</td>
<td>Mary Sheehan and Anthony Marra (Lily Mondroff, Architect)</td>
</tr>
<tr>
<td>Review:</td>
<td>HAWP</td>
</tr>
</tbody>
</table>

**Meeting Date:** 6/12/2019  
**Report Date:** 6/5/2019  
**Public Notice:** 5/29/2019  
**Tax Credit:** N/A  
**Staff:** Michael Kyne  
**Case Number:** 35/13-19U

**PROPOSAL:** Demolition of garage and construction of new garage

## STAFF RECOMMENDATION

Staff recommends that the HPC approve the HAWP application.

## ARCHITECTURAL DESCRIPTION

**SIGNIFICANCE:** Contributing Resource within the Chevy Chase Village Historic District  
**STYLE:** Colonial Revival  
**DATE:** c. 1927-1941

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![Fig. 1: Subject property.](image-url)
PROPOSAL

The applicants propose to demolish the existing garage at the rear of the subject property and construct a new garage.

APPLICABLE GUIDELINES

When reviewing alterations and new construction within the Chevy Chase Village 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 Chevy Chase Village 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.

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 insure 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.)
Chevy Chase Village Historic District Guidelines

The guidelines break down specific projects into three levels of review – Lenient, Moderate and Strict Scrutiny.

“Lenient Scrutiny” means that the emphasis of the review should be on issues of general massing and scale, and compatibility with the surrounding streetscape, and should allow for a very liberal interpretation of preservation rules. Most changes should be permitted unless there are major problems with massing, scale and compatibility.

“Moderate Scrutiny” involves a higher standard of review than “lenient scrutiny.” Besides issues of massing, scale and compatibility, preserving the integrity of the resource is taken into account. Alterations should be designed so that the altered structure still contributes to the district. Use of compatible new materials, rather than the original building materials, should be permitted. Planned changes should be compatible with the structure’s existing design, but should not be required to replicate its architectural style.

“Strict Scrutiny” means that the planned changes should be reviewed to insure that the integrity of the significant exterior architectural or landscaping features and details is not compromised. However, strict scrutiny should not be “strict in theory but fatal in fact” i.e. it does not mean that there can be no changes but simply that the proposed changes should be reviewed with extra care.

The Guidelines state three basic policies that should be adhered to, including:

Preserving the integrity of the contributing structures in the district. Alterations to contributing structures should be designed in such a way that the altered structure still contributes to the district.

Design review emphasis should be restricted to changes that will be visible from the front or side public right-of-way, or that would be visible in the absence of vegetation or landscaping.

Alterations to the portion of a property that are not visible from the public right-of-way should be subject to very lenient review. Most changes to rear of the properties should be approved as a matter of course.

The Guidelines that pertain to this project are as follows:

Garages and accessory buildings which are detached from the main house should be subject to lenient scrutiny, but should be compatible with the main building.

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.
STAFF DISCUSSION

The subject property is a c. 1927-1941 Colonial Revival-style Contributing Resource within the Chevy Chase Village Historic District. The front of the house faces West Kirke Street to the north and has a moderate setback from the street. The house has experienced previous alterations, including front porch replacement, the installation of aluminum siding to the historic house, and the construction of a c. 1991 rear addition. There is an existing two-car garage at the rear, which is likely original to the house (see Sanborn map below).

![Sanborn Map](image)

*Fig. 2: 1927 Sanborn map, with yellow star marking the subject property.*

The existing two-car garage is a utilitarian structure at the rear of the property, which is only partially visible from the front, as demonstrated in Fig. 4. The garage has experienced minor alterations, such as the replacement of the original right-side door (as viewed from the front), and it is in moderate disrepair.

![Subject Property with Garage](image)

*Fig. 4: Subject property (left), with garage circle in red.*
The proposed new garage will be a one-car garage with hipped roof and cupola. It will be constructed in the same approximate location as the existing garage, but the reduction in size will result in a decrease in overall lot coverage and impermeable surface. The proposed materials for the new garage include cedar lap siding, wood garage doors, SDL aluminum-clad wood windows, and architectural asphalt shingles.

The Guidelines state that “[g]arages and accessory building which are detached from the main house should be subject to lenient scrutiny, but should be compatible with the main building.” Regarding lenient scrutiny, the Guidelines state:

“Lenient Scrutiny” means that the emphasis of the review should be on issues of general massing and scale, and compatibility with the surrounding streetscape, and should allow for a very liberal interpretation of preservation rules. Most changes should be permitted unless there are major problems with massing, scale and compatibility.

Staff finds that the proposal will have a negligible impact on the subject property and surrounding streetscape. The proposed new garage is compatible with the subject property and surrounding streetscape, both in terms of materials and scale and massing, as there are numerous one-car garages within the historic district. The style of the proposed new garage is also generally compatible with the style of the main house.

Although the garage to be removed is likely original to the house, it is not a character-defining feature of the subject property or a significant example of the Colonial Revival style. Therefore, in accordance with the Standards, staff finds that the proposal will not alter or remove character-defining features of the subject property.

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

**STAFF RECOMMENDATION**

Staff recommends that the Commission approve the HAWP application only for alterations to the main house under the Criteria for Issuance in Chapter 24A-8(b), having found that the proposal is consistent with the Chevy Chase Village Historic District Guidelines identified above, 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 and 9;

and with the general condition that the applicant shall present the 3 permit sets 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

Contact Email: LMUNDOFF@BRENNANARCH.COM
Contact Person: LILI MUNDOFF

Daytime Phone No.: 410.313.8310 extension 103

Tax Account No.: 00454798

Name of Property Owner: MARY SHEEHAN and ANTHONY MARRA
Daytime Phone No.: 301.461.4654

Address: 30 WEST KIRKE STREET CHEVY CHASE MD 20815

Contractor: TRIUMPH CUSTOM HOMES
Phone No.: 301.652.1112

Contractor Registration No.: MHIC 48549

Agent for Owner: LILI MUNDOFF
Daytime Phone No.: 410.313.8310 extension 103

brennan + company architects
830 oella avenue
Ellicott city md 21043

House Number: 30
Street: WEST KIRKE STREET

Town/City: CHEVY CHASE Nearest Cross Street: CELDAR PARKWAY

Lot: P9 Block: 32 Subdivision: 0009

PART I - GENERAL INFORMATION

1A. CHECK ALL APPLICABLE:
☐ Construct ☐ Extend ☐ Alter/Remodel
☐ Move ☐ Install ☐ Wreck/Raze
☐ Revision ☐ Repair ☐ Reversible

1B. Construction cost estimated: $

1C. If this is a revision of a previously approved active permit, see Permit #

PART II - NEW CONSTRUCTION AND EXISTING ADDITIONS

2A. Type of savage disposal: 01 ☐ WSSC 02 ☐ Septic 03 ☐ Other:

2B. Type of water supply: 01 ☐ WSSC 02 ☐ Well 03 ☐ Other:

PART III - COMPLETE COMPLETION OF EXISTING RETAINING WALL

3A. Height feet inches

3B. Indicate whether the fence or retaining wall is to be constructed on one of the following locations:
☐ On party line/property line ☐ Entirely on land of owner ☐ On public right of way/assessment

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

[Signature of owner or authorized agent] [Date: April 13, 2019]

Approved: For Chairperson, Historic Preservation Commission
Disapproved: Signature: Date:

Application/Permit No.: 873917 Data Filed: Data Issued:

SEE REVERSE SIDE FOR INSTRUCTIONS
## HAWP APPLICATION: MAILING ADDRESSES FOR NOTIFYING
[Owner, Owner’s Agent, Adjacent and Confronting Property Owners]

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<tr>
<th>Owner’s mailing address</th>
<th>Owner’s Agent’s mailing address</th>
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<tr>
<td>MARY SHEEHAN + ANTHONY MARRA</td>
<td>LILI MUNDROFF</td>
</tr>
<tr>
<td>30 WEST KIRKE STREET</td>
<td>brennan+company architects</td>
</tr>
<tr>
<td>CHEVY CHASE MD 20815</td>
<td>803 OELLA AVENUE</td>
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<td></td>
<td>ELLICOTT CITY MD 21043</td>
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<tr>
<td>DONNA EVERS</td>
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<tr>
<td>28 WEST KIRKE STREET</td>
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<tr>
<td>CHEVY CHASE MD 20815</td>
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| JOHN LYNHAM JR.                                           | BRYAN + KATHLEEN ANDERSON                            |
| 32 WEST KIRKE STREET                                      | 29 WEST KIRKE STREET                                 |
| CHEVY CHASE MD 20815                                      | CHEVY CHASE MD 20815                                 |

| ROBERT ROVNER                                             | CHARLES A HOBBS                                      |
| 31 WEST IRVING STREET                                     | 33 WEST KIRKE STREET                                 |
| CHEVY CHASE MD 20815                                      | CHEVY CHASE MD 20815                                 |
SITE INFO

CHEVY CHASE VILLAGE HISTORIC DISTRICT

existing site plan
scale: 1" = 20'

new site plan
scale: 1" = 20'

existing garage

#30 existing 2-story wd. frame with basement

existing site plan
scale: 1" = 20'

new site plan
scale: 1" = 20'

existing garage

#30 existing 2-story wd. frame with basement + attic
1 garage: existing roof plan
scale: 1/4" = 1'-0"

2 garage: existing floor plan
scale: 1/4" = 1'-0"
1. garage: existing side elevation (east)
   scale: 1/4" = 1'-0"

2. garage: existing front elevation (north)
   scale: 1/4" = 1'-0"

3. garage: existing side elevation (west)
   scale: 1/4" = 1'-0"

4. garage: existing rear elevation (south)
   scale: 1/4" = 1'-0"
window schedule

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<td>Marvin</td>
<td>mahogany</td>
<td>French Casement</td>
<td>2'</td>
<td>5'-6&quot;</td>
<td>match existing muntin width + profile; outswing, alum. screens</td>
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<td>4</td>
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<td>3'-3&quot;</td>
<td>1'-6&quot;</td>
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doors schedule

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<th>NO.</th>
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<th>DOOR SIZE</th>
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<td>Exterior - Overhead Door</td>
<td>Exterior - Overhead Door</td>
<td>8'-0&quot; × 8'-0&quot;</td>
<td>(pair) 8 lite</td>
<td>Destiny 1200 belt drive + Decorative hardware</td>
<td>solid wood</td>
<td>sectional overhead; stained Grade A Cedar no Knots or Mahogany</td>
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<tr>
<td>2</td>
<td>garage</td>
<td>Exterior - Marvin French Door Pair</td>
<td>Exterior - Marvin French Door Pair</td>
<td>6'-0&quot; × 6'-0&quot;</td>
<td>8 lite</td>
<td></td>
<td>alum. clad ext.; wd. interior</td>
<td>match existing muntin profile</td>
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</table>

50-year Architect series asphalt shingle roof by "Certainteed" to match existing in-tab alignment; weathered wood color

Line of wall below

Half-round brown aluminum gutters + round downspouts, typ.

New metal flashing at valleys and roof/wall transition as required, typ.

garage: new roof plan

garage: new floor plan

terrace
(stone / brick border)
Sheehan-Marra Residence

Garage: New Exterior Elevations

1. Garage: New Side Elevation (East)
   - Scale: 1" = 1'-0"
   - Cupola Height: 12'
   - Roof Ridge: 12'
   - Eave: 12'

2. Garage: New Front Elevation (North)
   - Scale: 1" = 1'-0"
   - Cupola Height: 12'
   - Roof Ridge: 12'
   - Eave: 12'

3. Garage: New Side Elevation (West)
   - Scale: 1" = 1'-0"
   - Cupola Height: 12'
   - Roof Ridge: 12'
   - Eave: 12'

4. Garage: New Rear Elevation (South)
   - Scale: 1" = 1'-0"
   - Cupola Height: 12'
   - Roof Ridge: 12'
   - Eave: 12'

Exterior Materials:
- Aluminum-clad, dbl. glazed, sdl. awning
- 30-year Architect series asphalt shingle roof by "Certainteed" to match existing in tab alignment; weathered wood color
- Half-round brown aluminum gutters + round downspouts, typ.
- Solid wood overhead door, see door schedule
- Cedar fascia + trim
- 12" cedar lap siding
- 6" cedar sq. post, ptd: 1x3 cedar gate; 12 radius top
- Existing stone wall

Existing Site Wall

Date: 5/28/2019
Project: Garage Review
Location: 30 WEST KIRKE STREET CHEVY CHASE, MD 20815
MARVIN ULTIMATE CASEMENT

The Marvin Ultimate Casement Window is an innovative, high-performing casement window, offering expert craftsmanship, a variety of customization options, and superior value. Designed to suit virtually any application, these state-of-the-art windows feature concealed multi-point locks, patented exclusive wash mode, and durable hardware that ensures easy opening and smooth operation even on larger-sized windows. The Marvin Ultimate Casement features a recessed sash for a traditional look, plus a full jamb, making it perfectly suited for new construction or full frame replacement.

Features & Options

Features
- Coastal
- Exterior Finish
- Casing
- Interior Finish
- Glass
- Divided Lites
- Hardware
- Shades
- Screens
- Home Automation

How It Works

Round Tops

Standard Specifications

Features
- Largest operating wood clad casement in the industry at 36" x 102" or 44" x 81 1/8"
- Fixed casement as large as 120" x 80" or 80" x 120"
- Removable interior covers and pre-drilled jamb holes for easy installation and clean, finished appearance
- For use in nearly any new construction, remodeling, or full frame replacement application
- Revolutionary wash mode allows access to both sides of glass from indoors
- Available in StonePlus® for coastal region (23)
- Retractable screen option

This product is CE certified.
Cladding Colors
Marvin's low maintenance, clad-wood products feature an extruded aluminum exterior with high performance PVDF fluoropolymer paint finish as a standard that offers superior resistance to fading and chalking and meets the toughest AAMA 2605 standard. Marvin's palette of nineteen durable colors includes a spectrum of rich colors and three fresh, pearlescent finishes backed by a twenty year warranty.

Custom Colors
Any color. Any window or door. You name it.

No matter what your inspiration for a custom window or door color, Marvin® will match it. You get any color your heart desires, with your own personal custom color name and a 20-year warranty.

See your Marvin dealer for details and ask about special pricing.
Simulated Divided Lite

- Simulated Divided Lite with Spacer Bar (SDLS) - an energy-efficient way to create the look of divided lites. SDLS bars are permanently adhered to both sides of the glass. A spacer bar is installed between the glass, creating the essence of Authentic Divided Lites.

- Simulated Divided Lite (SDL) - SDL bars are permanently adhered to both sides of the glass.
NOTES:

- Marvin exclusive wash mode is not available on Ultimate Awning, Ultimate Casement Round Top or Ultimate Casement Windows less than 20" in width.
- For units with a tall bottom rail, reduce the DLO height by 1 1/2".
- These windows meet national Egress codes for fire evacuation. Local codes may differ.
- For safety and/or code requirements, Marvin recommends tempered glass in all units with a frame size height of 71 1/8" or larger and units with a frame size of 25.2 sq ft and larger.
- Please consult your local Marvin® representative for more information.
GARAGE: CUPOLA AWNING

MARVIN ULTIMATE PUSH OUT AWNING

The Marvin Ultimate Push Out Awning window features innovative engineering that allows the window to be opened easily by turning the handle and pushing out the sash. The Ultimate Push Out Awning can be used on its own or as a complement to picture or casement windows.

Features

- Featuring an opening that is wider than ever, the Ultimate Push Out Awning adds light to a room and provides better airflow and expansive, open views.
- Innovative engineering allows the window to be opened easily by turning the handle and pushing out the sash.
- The Ultimate Awning can be used on its own or as a complement to picture or casement windows.

This product is CE certified.
Cladding Colors

Marvin’s low maintenance, clad-wood products feature an extruded aluminum exterior with high performance PVDF fluoropolymer paint finish as a standard that offers superior resistance to fading and chalking and meets the toughest AAMA 2605 standard. Marvin’s palette of nineteen durable colors includes a spectrum of rich colors and three fresh, pearlized finishes backed by a twenty year warranty.

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- Simulated Divided Lite (SDL) - SDL bars are permanently adhered to both sides of the glass.

Sizes / Elevations

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## CLAD ULTIMATE AWNING/PUSH OUT AWNING

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</table>

**NOTES:** Please consult your local Marvin® representative for more information. **NOT TO SCALE**

**JANUARY 2019**
GARAGE: FRENCH DOORS

MARVIN ULTIMATE SWINGING FRENCH DOOR
The Marvin Ultimate Swinging French Door is a modern classic. Unmatched in fit and finish, these doors combine traditional design and expert Marvin craftsmanship with endless design combinations that will complement any space. Choose from Inswing or Outswing doors in a variety of styles.

Find a Dealer

View All Swinging Patio Doors
The Marvin Ultimate Swinging French Door is a modern classic. Unmatched in fit and finish, these doors combine traditional design and expert Marvin craftsmanship with endless design combinations that will complement any space. Choose from Inswing or Outswing doors in a variety of styles.

Find a Dealer

View All Swinging Patio Doors

Features & Options

Features
- Coastal
- Exterior Finish
- Casing
- Interior Finish
- Glass
- Divided Lites
- Hardware
- Sills
- Screens
- Home Automation

Simulated Divided Lite
- Simulated Divided Lite with Spacer Bar (SDLS) - an energy-efficient way to create the look of divided lites. SDLS bars are permanently adhered to both sides of the glass. A spacer bar is installed between the glass, creating the essence of Authentic Divided Lites.
- Simulated Divided Lite (SDL) - SDL bars are permanently adhered to both sides of the glass.
MARVIN ULTIMATE SWINGING FRENCH DOOR

The Marvin Ultimate Swinging French Door is a modern classic. Unmatched in fit and finish, these doors combine traditional design and expert Marvin craftsmanship with endless design combinations that will complement any space. Choose from Inswing or Outswing doors in a variety of styles.

Features & Options

Cladding Colors

- Copper (Pearlescent)
- Bright Silver (Pearlescent)
- Liberty Bronze (Pearlescent)
- Clay
- Steel
- Gunmetal
- Cashmere
- Stone White
- Sierra White
- Coconut Cream
- Pebble Gray
- Cadet Gray
- Cascade Blue
- Hampton Sage
- Evergreen

Wood Options

Cladding Colors

Marvin’s low maintenance, clad-wood products feature an extruded aluminum exterior with high performance PVDF fluoropolymer paint finish as a standard that offers superior resistance to fading and chalking and meets the toughest AAMA 2605 standard. Marvin’s palette of nineteen durable colors includes a spectrum of rich colors and three fresh, pearlescent finishes backed by a twenty-year warranty.

Custom Colors

Any color. Any window or door. You name it.

No matter what your inspiration for a custom window or door color, Marvin® will match it. You get any color your heart desires, with your own personal custom color name and a 20-year warranty.

See your Marvin dealer for details and ask about special pricing.
2 1/4" SWINGING FRENCH DOOR

8/0 HEIGHT RECTANGLE INSWING AND OUTSWING (10/0 HEIGHT SEE BELOW)

<table>
<thead>
<tr>
<th>Clad MO (mm)</th>
<th>Wood MO (mm)</th>
<th>RO (mm)</th>
<th>FS (mm)</th>
<th>DLO (mm)</th>
</tr>
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<tbody>
<tr>
<td>2.75/16 (811)</td>
<td>2.10/916 (878)</td>
<td>2.8/716 (824)</td>
<td>2.7/116 (799)</td>
<td>1.53/32 (434)</td>
</tr>
<tr>
<td>2.915/16 (852)</td>
<td>3.0/916 (929)</td>
<td>2.9/716 (849)</td>
<td>2.9/716 (849)</td>
<td>1.73/32 (485)</td>
</tr>
<tr>
<td>3.15/16 (964)</td>
<td>3.4/916 (1030)</td>
<td>3.2/716 (976)</td>
<td>3.17/16 (958)</td>
<td>1.73/32 (485)</td>
</tr>
<tr>
<td>5.1/8 (1333)</td>
<td>5.3/34 (169)</td>
<td>5.1/8 (1540)</td>
<td>5.0/5/8 (1540)</td>
<td>1.53/32 (434)</td>
</tr>
<tr>
<td>5.5/18 (1554)</td>
<td>5.7/34 (1721)</td>
<td>5.5/5/8 (1554)</td>
<td>5.5/5/8 (1533)</td>
<td>1.53/32 (434)</td>
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<tr>
<td>6.1/18 (1857)</td>
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<td>6.1/18 (1857)</td>
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8/0 HEIGHT ARCHTOP RT2 INSWING AND OUTSWING (10/0 HEIGHT SEE BELOW)

<table>
<thead>
<tr>
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<th>FS (mm)</th>
<th>DLO (mm)</th>
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<tbody>
<tr>
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<td>2.10/916 (878)</td>
<td>2.8/716 (824)</td>
<td>2.7/116 (799)</td>
<td>1.53/32 (434)</td>
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<tr>
<td>2.915/16 (852)</td>
<td>3.0/916 (929)</td>
<td>2.9/716 (849)</td>
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<td>1.73/32 (485)</td>
</tr>
<tr>
<td>3.15/16 (964)</td>
<td>3.4/916 (1030)</td>
<td>3.2/716 (976)</td>
<td>3.17/16 (958)</td>
<td>1.73/32 (485)</td>
</tr>
<tr>
<td>5.1/8 (1333)</td>
<td>5.3/34 (169)</td>
<td>5.1/8 (1540)</td>
<td>5.0/5/8 (1540)</td>
<td>1.53/32 (434)</td>
</tr>
<tr>
<td>5.5/18 (1554)</td>
<td>5.7/34 (1721)</td>
<td>5.5/5/8 (1554)</td>
<td>5.5/5/8 (1533)</td>
<td>1.53/32 (434)</td>
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<td>6.1/18 (1857)</td>
<td>6.3/34 (1924)</td>
<td>6.1/18 (1857)</td>
<td>6.1/18 (1857)</td>
<td>1.53/32 (434)</td>
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8/0 HEIGHT ARCHTOP RT6 INSWING AND OUTSWING (10/0 HEIGHT SEE BELOW)

<table>
<thead>
<tr>
<th>Clad MO (mm)</th>
<th>Wood MO (mm)</th>
<th>RO (mm)</th>
<th>FS (mm)</th>
<th>DLO (mm)</th>
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</thead>
<tbody>
<tr>
<td>2.75/16 (811)</td>
<td>2.10/916 (878)</td>
<td>2.8/716 (824)</td>
<td>2.7/116 (799)</td>
<td>1.53/32 (434)</td>
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<td>3.0/916 (929)</td>
<td>2.9/716 (849)</td>
<td>2.9/716 (849)</td>
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<tr>
<td>3.15/16 (964)</td>
<td>3.4/916 (1030)</td>
<td>3.2/716 (976)</td>
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<td>1.53/32 (434)</td>
</tr>
<tr>
<td>5.5/18 (1554)</td>
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<td>5.5/5/8 (1554)</td>
<td>5.5/5/8 (1533)</td>
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<td>6.1/18 (1857)</td>
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10-0 HEIGHTS:

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<th>DLO (mm)</th>
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<td>2.1/4&quot;</td>
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<td>2.1/4&quot;</td>
<td>2.1/4&quot;</td>
<td>2.1/4&quot;</td>
</tr>
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</table>

NOT TO SCALE

JANUARY 2019

2 1/4" SWINGING FRENCH DOOR
Custom crafted wood doors provide distinctive charm and unmatched luxury.
Signature® Carriage Wood doors combine the classic swing-open appearance and detailing of carriage house wood doors with the convenience of sectional garage doors. Inspired by Amish craftsmen, premium wood is transformed into the finest garage doors.

Built better from the inside out

Multiple designs and options let you choose the perfect complement to your home with our style, window and glass options.

World class door with the best species of wood available.

Polystyrene insulation can diminish street noise and provide quieter door operation. R-value* of 4.75 available for select models.

Our WindStorm™ wind load-rated system is available on select products to meet regulations for a variety of wind speeds.

*Overhead Door Corporation uses a calculated door section R-value for our insulated doors.

Ponderosa Collection, Buchanan model, (580 B) stained finish, 4PA: Four Pane Arched Top

Door construction

580 Series Premium Construction

- Rail
- Glazing
- Polystyrene insulation
- Plywood
- Wood overlay/trim
- Diagonal trim

Paint or stain grade, insulation standard.
2" four-layer construction¹.
Polystyrene insulation provides an R-value of 4.75*.

¹ Thickness may vary slightly depending on wood type.

570 Series Standard Construction

- Rail
- Glazing
- Stile
- Plywood
- Panel insert

Paint or stain grade, insulation optional.
Up to 1½” thick rail and stile construction with panel inserts.

The perfect combination. We combine our trusted technical experience with the elegance of Amish craftsmanship to create a door that reflects handmade artistry built to stand the test of time.
Parson Collection

Simply sophisticated, the Parson Collection’s classic solid wood designs are the essence of luxury.
Doors provided in unfinished, paint-grade or stain-grade wood.

Premium Construction (Insulated)
Bristol Narrow (580 BN) Raised panel
Bristol Wide (580 BW) Raised panel

Square top

Arched top

Standard Construction (Insulation optional)
Drake Narrow (570 DN)
Drake Wide (570 DW)
Kingston Narrow (571 N) Raised panel
Kingston Wide (571 W) Raised panel

Square top

Arched top

Doors come standard without windows. Doors above are pictured with optional windows. See additional window options on page 14.
Choose a window style:

Single Door

- 3PS: Three Pane Square Top
- 3PA: Three Pane Arched Top
- 4PS: Four Pane Square Top
- 4PA: Four Pane Arched Top
- 6PS: Three over Three Square Top
- 6PA: Three over Three Arched Top
- 8PS: Four over Four Square Top
- 8PA: Four over Four Arched Top
- 2PS: Two Pane Square Top
- 2PA: Two Pane Arched Top
- 22S: Two over Two Square Top
- 22A: Two over Two Arched Top

Double Door

- 3PS: Three Pane Square Top
- 3PA: Three Pane Arched Top
- 4PS: Four Pane Square Top
- 4PA: Four Pane Arched Top
- 6PS: Three over Three Square Top
- 6PA: Three over Three Arched Top
- 8PS: Four over Four Square Top
- 8PA: Four over Four Arched Top
- 2PS: Two Pane Square Top
- 2PA: Two Pane Arched Top
- 22S: Two over Two Square Top
- 22A: Two over Two Arched Top

Double Door - Double Arch

- 3PS: Three Pane Square Top
- 3PA: Three Pane Arched Top
- 4PS: Four Pane Square Top
- 4PA: Four Pane Arched Top
- 6PS: Three over Three Square Top
- 6PA: Three over Three Arched Top
- 8PS: Four over Four Square Top
- 8PA: Four over Four Arched Top
- 2PS: Two Pane Square Top
- 2PA: Two Pane Arched Top
- 22S: Two over Two Square Top
- 22A: Two over Two Arched Top

Not all window options are available for all models. Consult your Overhead Door® Distributor for additional options that may be available.
Choose a wood species

Select the material for your door

Contact your Overhead Door™ Distributor to see samples of wood options.

### Wood Options

<table>
<thead>
<tr>
<th>Doors provided in</th>
<th>Paint grade</th>
<th>Stain grade</th>
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</thead>
<tbody>
<tr>
<td>Unfinished, paint-grade or stain-grade wood.</td>
<td>T1-11 4&quot; Grooved Plywood</td>
<td>Smooth/ Luan Plywood</td>
</tr>
<tr>
<td>Model</td>
<td>T1-11 8&quot; Grooved Plywood</td>
<td>Rough sawn Plywood</td>
</tr>
<tr>
<td></td>
<td>Medium Density Overlay (MDO)</td>
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</tr>
<tr>
<td>Parson Collection</td>
<td>Standard</td>
<td>Optional</td>
</tr>
<tr>
<td>†Drake Narrow (570 DN)</td>
<td>Optional</td>
<td>Standard</td>
</tr>
<tr>
<td>†Drake Wide (570 DW)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>†Kingston Narrow (571 N)</td>
<td>Optional</td>
<td>Standard</td>
</tr>
<tr>
<td>†Kingston Wide (571 W)</td>
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<td>†Bristol Narrow (580 BN)</td>
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<td>Standard</td>
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<tr>
<td>†Bristol Wide (580 BW)</td>
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<td></td>
</tr>
<tr>
<td>Ponderosa Collection</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Buchanan (580 B)</td>
<td>Optional</td>
<td>Standard</td>
</tr>
<tr>
<td>Dakota (580 D)</td>
<td>Optional</td>
<td>Standard</td>
</tr>
<tr>
<td>Sierra (580 S)</td>
<td>Optional</td>
<td>Standard</td>
</tr>
<tr>
<td>†Austin (570 A)</td>
<td>Standard</td>
<td>Optional</td>
</tr>
<tr>
<td>†Baxter (570 B)</td>
<td>Standard</td>
<td>Optional</td>
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<tr>
<td>Villa Madre Collection</td>
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<td></td>
</tr>
<tr>
<td>Ortega (580 Base)</td>
<td>Optional</td>
<td>Standard</td>
</tr>
<tr>
<td>†Castile (570 C)</td>
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<td>Optional</td>
</tr>
<tr>
<td>Medina (580 M)</td>
<td>Optional</td>
<td>Standard</td>
</tr>
<tr>
<td>Pizarro (580 P)</td>
<td>Optional</td>
<td>Standard</td>
</tr>
<tr>
<td>Cruz (580 C)</td>
<td>Optional</td>
<td>Standard</td>
</tr>
</tbody>
</table>

*Call the wood group for special pricing 666-672-4154
† Additional wood options are available. Please consult your factory Wood Door Specialist. ecdwoodoor@overheaddoor.com

### Base 580 Overlay Trim Options

<table>
<thead>
<tr>
<th>Model</th>
<th>Paint grade</th>
<th>Stain grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>Parson Collection</td>
<td>Extra</td>
<td>Hemlock</td>
</tr>
<tr>
<td>Bristol Wide (580 BW), Bristol Narrow (580 BN)</td>
<td>Standard</td>
<td>Optional</td>
</tr>
<tr>
<td>Ponderosa Collection</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Buchanan (580 B), Dakota (580 D), Sierra (580 S)</td>
<td>Standard</td>
<td>Optional</td>
</tr>
<tr>
<td>Villa Madre Collection</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ortega (580 Base), Medina (580 M), Pizarro (580 P), Cruz (580 C)</td>
<td>Standard</td>
<td>Optional</td>
</tr>
</tbody>
</table>
Landmark PRO provides the reliable quality of Landmark, along with greater durability and eye-catching Max Def colors. Engineered with two laminated layers to replicate the dimensional appearance of true wood shake, Landmark PRO offers peace-of-mind on projects that call for a premier aesthetic at an affordable price. Backed by a 100+ year legacy of trusted performance, all Landmark PRO shingles include CertainTeed’s industry-leading, lifetime-limited warranty.

- Certified as meeting the industry's toughest third-party (UL) manufacturing quality standards
- Class A fire-resistance rating
- Fifteen year StreakFighter® algae-resistance warranty

Due to variation in computer monitors and printers, the color samples seen on your computer screen may not exactly match the corresponding color. To verify actual product color, ask to see the actual product, available through a CertainTeed contractor or distributor.

PRODUCT OVERVIEW
- Landmark PRO Brochure - Southeast & South Atlantic
- Roofing Products Guide - Southeast/South Atlantic/Mid-Atlantic
- Integrity Roof System Brochure
- StreakFighter Algae-Resistant Shingles Brochure
(More Info)

TECHNICAL SPECS
- Data Sheet - Landmark Series
- SDS - Asphalt Shingle - non-AR
- 3-Part Spec - Landmark PRO
- ICC-ES-ESR-1389
(More Info)

INSTALLATION
- Installation - Landmark PRO
(More Info)

WARRANTY
- Asphalt Shingle Limited Warranty
- SureStart Warranty Brochure
(More Info)

Sweets ProductTAG
The Western Red Cedar Lumber Association is a Vancouver (Canada) based non-profit association representing 27 quality producers of Western Red Cedar lumber products in British Columbia, Washington, Oregon and Idaho.

American Cedar & Millwork is proud to carry high quality Western Red Cedar materials.
HERITAGE

Western Red Cedar’s popularity dates back thousands of years to the Native Americans who first settled the Pacific Coast region of North America. Its versatility made the trees essential to Native peoples prompting them to revere it as a central part of their life. Western Red Cedar became known to them as the “Tree of Life”. Native craftsmen and artists found uses for each part of the Cedar tree. Craftsmen carved canoes, totem poles, storage boxes and ceremonial masks from the heartwood. Others wove the inner bark into mats, baskets and water repellent clothing, shaped the branches into ropes and fashioned the roots into baskets and cords.

This heritage continues today and is a testament to the quality and longevity of Western Red Cedar, a heritage that is unmatched by other building materials. As a buyer of Western Red Cedar, this is your assurance that Western Red Cedar will stand the test of time.

ENVIRONMENT

Western Red Cedar is the ultimate green building material. It is responsibly and sustainably harvested in the publicly managed forests of British Columbia, Canada. The province has exceeded United Nations guidelines by setting aside more than 12% of its land base as parkland. Less than 1/3 of 1% of BC’s Cedar growing stock volume is harvested each year. For each tree harvested, three are replanted. The fact is, there are more forests in North America today than there were 100 years ago. These young forests are excellent carbon sinks. They also release oxygen back into the atmosphere contributing to a healthier environment.

All Western Red Cedar Lumber Association members are in the process or have achieved certification under one or more independent third party certification systems (CSA, SFI or FSC).

Wood, and Western Red Cedar specifically, has the least impact on the environment throughout its life cycle. Western Red Cedar requires significantly less energy to produce than other materials and unlike man-made alternatives, Western Red Cedar is biodegradeable. Wood has 400 times better insulation (R) value than steel, 2000 times that of aluminum, 8 times that of concrete.

Make the right choice for your environment, build green with Western Red Cedar.
CLEAR GRADES OF WESTERN RED CEDAR BEVEL SIDING

Clear bevel siding is graded for smooth face use with the exception of Rustic, which is graded for saw textured use only.

<table>
<thead>
<tr>
<th>Grade</th>
<th>Description</th>
<th>Grading Rule Paragraph¹</th>
</tr>
</thead>
<tbody>
<tr>
<td>CLEAR VERTICAL GRAIN HEART*</td>
<td>This is the highest bevel siding grade. Clear V.G. Heart grade is sawn vertical grain (edge grain) and is kiln-dried. Pieces have a smooth face of decay-resistant heartwood and are free from growth characteristics that affect appearance or performance. Pieces have excellent dimensional stability and hold finishes exceptionally well.</td>
<td>NLGA 201a</td>
</tr>
<tr>
<td></td>
<td></td>
<td>WCLIB 106-aa</td>
</tr>
<tr>
<td></td>
<td></td>
<td>WWPA 21.11</td>
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<tr>
<td></td>
<td>*Available solid wood or finger-joined</td>
<td></td>
</tr>
<tr>
<td>A CLEAR*</td>
<td>This is a fine appearance grade that allows only slightly more growth characteristics than Clear Heart. Pieces are of mixed grain. These mixed grain (vertical and flat) pieces are graded from the surfaced face. Typically sold with a percentage of B grade (NLGA 201C/WCLIB 106-b / WWPA 21.13).</td>
<td>NLGA 201b</td>
</tr>
<tr>
<td></td>
<td></td>
<td>WCLIB 106-a</td>
</tr>
<tr>
<td></td>
<td></td>
<td>WWPA 21.12</td>
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<tr>
<td></td>
<td>*Available solid wood or finger-joined</td>
<td></td>
</tr>
<tr>
<td>RUSTIC*</td>
<td>Rustic grade bevel siding is recommended for use as sidewall covering where the distinctive charm of a rustic saw textured appearance is desired. This grade allows limited characteristics that do not detract from serviceability.</td>
<td>NLGA 201d</td>
</tr>
<tr>
<td></td>
<td></td>
<td>WCLIB N/A</td>
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<tr>
<td></td>
<td></td>
<td>WWPA N/A</td>
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<tr>
<td></td>
<td>*Available solid wood or finger-joined</td>
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</table>
SPECIFYING WESTERN RED CEDAR BEVEL SIDING

The following information is required when specifying bevel siding products:

<table>
<thead>
<tr>
<th>Specification Information Required</th>
<th>Sample Specification</th>
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<tbody>
<tr>
<td><strong>Species:</strong> Western Red Cedar</td>
<td>WRCLA Western Red Cedar</td>
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</table>

<table>
<thead>
<tr>
<th>Product Pattern and Intended Use:</th>
<th>Plain Bevel Siding</th>
</tr>
</thead>
<tbody>
<tr>
<td>Siding is used as an exterior cladding to provide both weather protection and architectural style. The designer may choose from plain bevel, rabbeted bevel, or wavy edge bevel.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Size:</th>
<th>1/2 x 6 in.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Specify the nominal size of the product.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Grade:</th>
<th>Clear V.G. Heart</th>
</tr>
</thead>
<tbody>
<tr>
<td>The grade of the product governs its overall quality. Refer to WRCLA specification literature or grading agency rule books for available grades.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Grading Agency Paragraph:</th>
<th>NLGA para. 201a</th>
</tr>
</thead>
<tbody>
<tr>
<td>To ensure that the product meets a written standard, an agency grade paragraph should be referenced.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Moisture Content:</th>
<th>Kiln-dried</th>
</tr>
</thead>
<tbody>
<tr>
<td>Specify whether the product is to be green (unseasoned) or kiln-dried.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Surface to be exposed:</th>
<th>Smooth face</th>
</tr>
</thead>
<tbody>
<tr>
<td>Specify the application orientation to assist the supplier in shipping the right product for the job.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Quantity:</th>
<th>5500 surface measure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Express in surface measure the quantity required. See table opposite for factor to convert square feet to surface measure.</td>
<td></td>
</tr>
</tbody>
</table>

SIZES OF WESTERN RED CEDAR BEVEL SIDING

<table>
<thead>
<tr>
<th>Nominal Size*</th>
<th>Pattern</th>
<th>Grades</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/2x4</td>
<td>Clear</td>
<td></td>
</tr>
<tr>
<td>1/2x6</td>
<td></td>
<td>Clear V.G. Heart</td>
</tr>
<tr>
<td>1/2x8</td>
<td></td>
<td>A</td>
</tr>
<tr>
<td>11/16x6</td>
<td>Plain Bevel</td>
<td>Rustic</td>
</tr>
<tr>
<td>11/16x8</td>
<td></td>
<td>B</td>
</tr>
<tr>
<td>3/4x6</td>
<td></td>
<td>C</td>
</tr>
<tr>
<td>3/4x8</td>
<td></td>
<td>Proprietary</td>
</tr>
<tr>
<td>3/4x10</td>
<td></td>
<td>Knotty</td>
</tr>
<tr>
<td>5/8x6</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5/8x8</td>
<td></td>
<td></td>
</tr>
<tr>
<td>11/16x6</td>
<td></td>
<td></td>
</tr>
<tr>
<td>11/16x8</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3/4x6</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3/4x8</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3/4x10</td>
<td></td>
<td></td>
</tr>
<tr>
<td>7/8x8</td>
<td></td>
<td></td>
</tr>
<tr>
<td>7/8x10</td>
<td></td>
<td></td>
</tr>
<tr>
<td>7/8x12</td>
<td></td>
<td></td>
</tr>
<tr>
<td>11/16x6</td>
<td></td>
<td></td>
</tr>
<tr>
<td>11/16x8</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3/4x6</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3/4x8</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3/4x10</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5/4x8</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5/4x10</td>
<td></td>
<td></td>
</tr>
<tr>
<td>7/8x10</td>
<td></td>
<td>Wavy Edge Bevel</td>
</tr>
<tr>
<td>7/8x12</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Knotty

| 5/8x6         |             |           |
| 5/8x8         |             |           |
| 11/16x6       |             |           |
| 11/16x8       |             |           |
| 3/4x6         |             |           |
| 3/4x8         |             |           |
| 3/4x10        |             |           |
| 7/8x8         |             |           |
| 7/8x10        |             |           |
| 7/8x12        |             |           |
| 11/16x6       |             |           |
| 11/16x8       |             |           |
| 3/4x6         |             |           |
| 3/4x8         |             |           |
| 3/4x10        |             |           |
| 5/4x8         |             |           |
| 5/4x10        |             |           |
| 7/8x10        |             | Wavy Edge Bevel |
| 7/8x12        |             |           |

* Not all sizes are available in all grades. Siding may be available finger joined or finger joined and edge glued.

BEVEL SIDING COVERAGE TABLE
FOR SEASONED SIDINGS

Assuming minimum one inch overlaps*

<table>
<thead>
<tr>
<th>Nominal Width (inches)</th>
<th>Dressed Width (inches)</th>
<th>Exposed Face Width (inches)</th>
<th>Linear Feet Factor</th>
<th>Surface Measure</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>3-1/2</td>
<td>2-1/2</td>
<td>4.80</td>
<td>1.60</td>
</tr>
<tr>
<td>6</td>
<td>5-1/2</td>
<td>4-1/2</td>
<td>2.67</td>
<td>1.33</td>
</tr>
<tr>
<td>8</td>
<td>7-1/2**</td>
<td>6-1/2</td>
<td>1.85</td>
<td>1.23</td>
</tr>
<tr>
<td>10</td>
<td>9-1/2**</td>
<td>8-1/2</td>
<td>1.41</td>
<td>1.18</td>
</tr>
<tr>
<td>12</td>
<td>11-1/2**</td>
<td>10-1/2</td>
<td>1.14</td>
<td>1.14</td>
</tr>
</tbody>
</table>

* Larger overlaps can be used on wider bevel sidings such as 10 and 12 in. pieces. See WRCLA publication Installing Cedar Siding for more information.

** Dressed widths may vary. Check with your Real Cedar Certified Cedar Distributor for actual sizes.
Vixen Hill
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Elverson, PA 19520
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Fax: 610.286.2099
Headquarters
Contact:
www.VixenHill.com
Sales@VixenHill.com

Principal(s):
Chris Peeples, President

Statement:
Since 1980 Vixen Hill has been a world supplier of
traditional outdoor structures and home products.
Customers can use design Wizards on the website and
customize designs. Vixen Hill manufactures all its pre-
engineered products using only the finest materials and
time-proven construction techniques.

Product Categories:
02800 Improvements + Amenities
02805 Prefabricated Bridges & Structures
02870 Site Furnishings: Seating, Tables + Gazebos
02880 Shade Structures + Umbrellas
10340 Clocks, Cupolas, Spires + Bells
10790 Exterior Protection, Shutters + Louvers
13035 Prefab Booths, Office Shelters + Clean Rooms
13120 Pre Engineered + Prefabricated Structures

Applications:
Commercial + Residential

Background:
Market
International
Founded 1980
Employees 30

Showrooms / Distributors:
Purchase products directly from the factory. Showroom
and knowledgeable sales people ensure you get exactly
the product that best fits your needs.
Visit Our Factory Showroom

Brands / Products:
Porch Systems, GardenHouses, Grand Pavilions, Arbors, Pavilions, Enclosed Porches, Porch Systems
and Shutters. See Vixen Hill's Idea Book for more inspiration.

Idea Book:
Garden Houses
Grand Pavilions

New Products:
Porch Systems, Williamsburg Style Sheds, Mail Box Kiosks,
Porch Systems:
Williamsburg Style Garden Shed
Mail Box Kiosks

Green Statement/Products:
Vixen Hill uses Western Red Cedar forested from 100 year rotational forests on Vancouver Island, BC,
Canada. Timbering is limited to designated annual quantities to ensure infinite supply of quality wood fiber.

Affiliations:
AJA, ASLA, NARI, NFIB

Links:
Gazebos
Shutters
Canapas
Pergolas

Technical Links:
Shop Drawings
Engineering
FAQ
Installation Instructions

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