



HISTORIC DISTRICT COMMISSION NOTICE OF DENIAL

City of Detroit - Planning & Development Department
2 Woodward Avenue, Suite 808
Detroit, Michigan 48226

Notification Date: 02/17/26

Application Number: HDC2025-00740

APPLICANT & PROPERTY INFORMATION

| | | | |
|--|----------------------|-------------------------|-------------------|
| NAME: Amanda Weted | | COMPANY NAME: NA | |
| ADDRESS: 19597 Shrewsbury Rd | CITY: Detroit | STATE: MI | ZIP: 48221 |
| PROJECT ADDRESS: 19597 Shrewsbury Rd | | | |
| HISTORIC DISTRICT: Sherwood Forest | | | |
| SCOPE: <ul style="list-style-type: none">• Replace seven (7) existing wood windows with new aluminum-clad wood windows | | | |
| At the Regular Meeting that was held on 02/11/26 , the Detroit Historic District Commission (“DHDC”) reviewed the above-referenced application. Pursuant to Section 5(1) and 9(1) of the Michigan Local Historic District Act, as amended, being MCL 399.205 (1), MCL 399.209 (9) and Sections 21-2-78 and 21-2-80 of the 2019 Detroit City Code; the DHDC hereby issues a Denial for the following work, effective on 02/17/26 , as it will be inappropriate according to the Secretary of Interior’s Standards for Rehabilitation and the district’s Elements of Design: | | | |

REASONS FOR DENIAL:

- The existing historic wood windows are distinctive, character-defining features that have not proven to be beyond repair

FAILURE TO MEET STANDARDS:

The Standards for Rehabilitation (codified in 36 CFR 67 for use in the Federal Historic Preservation Tax Incentives program) address the most prevalent treatment. "Rehabilitation" is defined as "the process of returning a property to a state of utility, through repair or alteration, which makes possible an efficient contemporary use while preserving those portions and features of the property which are significant to its historic, architectural, and cultural values."

As stated in the definition, the treatment "rehabilitation" assumes that at least some repair or alteration of the historic building will be needed in order to provide for an efficient contemporary use; however, these repairs and alterations must not damage or destroy materials, features or finishes that are important in defining the building's historic character.

The Standards are to be applied to specific rehabilitation projects in a reasonable manner, taking into consideration economic and technical feasibility.

Failure to meet standards: 2, 5, 6

Corresponding Standard numbered below:

| |
|--|
| 1. A property shall be used for its historic purpose or be placed in a new use that requires minimal change to the defining characteristics of the building and its site and environment |
| 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. |
| 3. Each property shall be recognized as a physical record of its time, place, and use. Changes that create a false sense of historical development, such as adding conjectural features or architectural elements from other buildings, shall not be undertaken. |
| 4. Most properties change over time; those changes that have acquired historic significance in their own right shall be retained and preserved. |
| 5. Distinctive features, finishes, and construction techniques or examples of craftsmanship that characterize a property shall be preserved. |
| 6. Deteriorated historic features shall be repaired rather than replaced. Where the severity of deterioration requires replacement of a distinctive feature, the new feature shall match the old in design, color, texture, and other visual qualities and, where possible, materials. Replacement of missing features shall be substantiated by documentary, physical, or pictorial evidence. |
| 7. Chemical or physical treatments, such as sandblasting, that cause damage to historic materials shall not be used. The surface cleaning of structures, if appropriate, shall be undertaken using the gentlest means possible. |
| 8. Significant archeological resources affected by a project shall be protected and preserved. If such resources must be disturbed, mitigation measures shall be undertaken. |
| 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. |

FAILURE TO MEET ELEMENTS OF DESIGN:

Failure to meet Elements of Design: 3, 7, 8, 10

Corresponding design element numbered below:

| | |
|---|--|
| 1. Height. | 12. Walls of continuity. |
| 2. Proportion of building's front façades. | 13. Relationship of significant landscape features and surface treatments. |
| 3. Proportion of openings within the façade. | 14. Relationship of open space to structures. |
| 4. Rhythm of solids to voids in front façade. | 15. Scale of façade and façade elements. |
| 5. Rhythm of spacing of buildings on streets. | 16. Directional expression of front elevations. |
| 6. Rhythm of entrance and/or porch projections. | 17. Rhythm of building setbacks. |
| 7. Relationship of materials. | 18. Relationship of lot coverages. |
| 8. Relationship of textures. | 19. Degree of complexity within the façade. |
| 9. Relationship of colors. | 20. Orientation, vistas, overviews. |
| 10. Relationship of architectural details. | 21. Symmetric or asymmetric appearance. |
| 11. Relationship of roof shapes. | 22. General environmental character. |

If you have any questions regarding the above, please contact staff at 313-224-1762 or hdc@detroitmi.gov.

For the Commission:



Garrick Landsberg
Director of Staff, Historic District Commission

PSR:Lise

260217LS

APPEALS PROCESS

The application may be resubmitted for the Historic District Commission's review when suggested changes have been made that address the cited reasons for denial, if applicable. Please be advised that, in accordance with MCL 399. 211 and Section 21-2-81 of the 2019 Detroit City Code, an applicant aggrieved by a decision of the DHDC may file an appeal with the State Historic Preservation Review Board. Within sixty (60) days of your receipt of this notice, an appeal may be filed with:

Jon Stuckey, Michigan Department of Attorney General
2nd Floor, G. Mennen Williams Building
525 West Ottawa Street, P.O. Box 30754, Lansing, MI 48909
Phone: 517-335-0665 E-mail: stuckeyj@michigan.gov



HISTORIC DISTRICT COMMISSION APPLICATION FOR WORK APPROVAL

City of Detroit - Planning & Development Department
2 Woodward Avenue, Suite 808
Detroit, Michigan 48226

| |
|-----------------------|
| APPLICATION ID |
| HDC2025-00740 |

PROPERTY INFORMATION

| |
|---|
| ADDRESS(ES): 19597 Shrewsbury Rd |
| HISTORIC DISTRICT: Sherwood Forest |

SCOPE OF WORK: (Check ALL that apply)

- | | | | | | |
|--|--|---------------------------------------|--|---|--------------------------------|
| <input checked="" type="checkbox"/> Windows/ Doors | <input type="checkbox"/> Walls/ Siding | <input type="checkbox"/> Painting | <input type="checkbox"/> Roof/Gutters/ Chimney | <input type="checkbox"/> Porch/Deck/Balcony | <input type="checkbox"/> Other |
| <input type="checkbox"/> Demolition | <input type="checkbox"/> Signage | <input type="checkbox"/> New Building | <input type="checkbox"/> Addition | <input type="checkbox"/> Site Improvements (landscape, trees, fences, patios, etc.) | |

| |
|---|
| BRIEF PROJECT DESCRIPTION: |
| <p>I am proposing to replace the existing second-floor windows with Pella Reserve windows that closely replicate the original historic windows in appearance, proportion, and detailing. The existing wood windows are original to the 1926 home and have experienced significant deterioration, including extensive rot, air leakage, and water infiltration, which can no longer be effectively repaired. Several window sashes are inoperable, creating safety concerns and contributing to energy inefficiency. After evaluating repair options, replacement was determined to be necessary to protect the integrity of the window openings and maintain proper weather protection for the home. The proposed windows will match the original design, profiles, and overall appearance, ensuring the historic character of the property is preserved.</p> |

APPLICANT IDENTIFICATION

| | | | |
|--|-------------------------------------|------------------|-------------------|
| TYPE OF APPLICANT: Property Owner/Homeowner | | | |
| NAME: Amanda Weted | COMPANY NAME: NA | | |
| ADDRESS: 19597 Shrewsbury Rd | CITY: Detroit | STATE: MI | ZIP: 48221 |
| PHONE: +1 (616) 723-2755 | EMAIL: amandaweted@gmail.com | | |

I AGREE TO AND AFFIRM THE FOLLOWING:

- I understand that the failure to upload all required documentation may result in extended review times for my project and/or a denied application.
- I understand that the review of this application by the Historic District Commission does not waive my responsibility to comply with any other applicable ordinances including obtaining appropriate permits (building, sign, etc.) or other department approvals prior to beginning the work.
- I hereby certify that I am the legal owner and/or occupant of the subject property and that the information on this application is true and correct.

| | |
|---|---|
| <p>Signed by: Amanda Weted</p> <p style="font-size: small; margin-left: 20px;">CC57527A28C741E...</p> | <p style="text-align: center;">NA</p> <p style="text-align: center;">12/14/2025</p> |
| SIGNATURE | DATE |
| 19597 Shrewsbury Rd +1 (616) 723-2755 | Detroit MI 48221 amandaweted@gmail.com |

NOTE: Based on the scope of work, additional documentation may be required. See www.detroitmi.gov/hdc for scope-specific requirements.

PROJECT DETAILS – TELL US ABOUT YOUR PROJECT

Instructions: Add project details using the text box in each section. If your details exceed the space provided, attach the details via the attachment icon for that section.

ePLANS PERMIT NUMBER:

(only applicable if you've already applied for permits through ePLANS)

N/A

GENERAL

1. DESCRIPTION OF EXISTING CONDITION

Please tell us about the current appearance and conditions of the areas you want to change. You may use a few sentences or attach a separate prepared document on the right. (For example, "existing roof on my garage is covered in gray asphalt shingles in poor condition.")

The existing windows are original 1926 wood, single-pane, single-hung units consistent with muntins/grids with the Colonial architectural style of the home and the Sherwood Forest Historic District. Over time, the windows have experienced age-related deterioration including draftiness, reduced energy efficiency, difficulty in operation, and areas of wear to the wood components. While the original window openings, proportions, muntin patterns, and trim profiles remain intact, the overall condition of the windows no longer provides adequate weather protection or performance for continued use without significant intervention. The paint has deteriorated, the glazing has started to come away from the panes, and the wood trim and sills have deteriorated/rotted. Many of the windows don't open.

2. PHOTOGRAPHS

Help us understand your project. Please attach photographs of all areas where work is proposed.



3. DESCRIPTION OF PROJECT

In this box, tell us about what you want to do at the areas described above in box #1. (For example, "Install new asphalt shingle roofing at garage.")

The proposed work involves replacing the existing deteriorated single-pane wood windows with Pella Architectural Series double-hung windows that closely replicate the original historic windows in size, proportion, muntin configuration, profile, and overall appearance.

The replacement windows will feature wood interiors and vinyl-clad exteriors, allowing for improved durability and energy efficiency while maintaining a historically appropriate appearance. The windows will be installed within the existing window openings with no changes to the size, shape, or location o

4. DETAILED SCOPE OF WORK

In this box, please describe all steps necessary to complete the work described in box #3. (For example, "remove existing shingles, replace wood deck as necessary, replace wood eaves, install roof vents, replace rotted fascia boards, paint, clean worksite.")

Carefully remove the existing deteriorated wood windows while preserving the original masonry openings and surrounding historic materials. Prepare the existing window openings to ensure proper fit and weather sealing, without enlarging or altering the original openings. Install the new Pella Architectural Series double-hung windows in a manner consistent with historic window installation practices. Replicate and reinstall exterior trim to match the original profiles, dimensions, and detailing. Paint all exterior trim and visible components to match the existing historic white color.

5. BROCHURES/CUT SHEETS

Please provide information on the products or materials you are proposing to install. For example, a brochure on the brand and color of the shingles proposed.



ADDITIONAL DETAILS

| | |
|--|---|
| 6. WINDOWS/DOORS <i>Detailed photographs of window(s) and/or door(s) proposed for replacement showing the condition of the interior and exterior of the window(s) and/or door(s)</i> |  |
| | |
| | |
| | |





19597
Seymour





















Contract - Detailed

Pella Window and Door Showroom of Auburn Hills
 1940 Opdyke Ct
 Auburn Hills, MI 48326
Phone: (248) 292-5000 **Fax:** (248) 292-5005

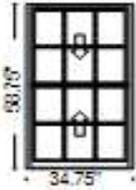
Sales Rep Name: Poplawski, Sean
Sales Rep Phone: (586) 942-1138
Sales Rep Fax: 248-292-5005
Sales Rep E-Mail: poplawskisj@pella.com

| Customer Information | Project/Delivery Address | Order Information |
|---|---|--|
| W HOME RENOVATIONS 19597 Shrewsbury Rd DETROIT, MI 48221-1845 Primary Phone: (586) 630-1110 Mobile Phone: Fax Number: E-Mail: jweted@yahoo.com Contact Name: Great Plains #: 1002088137 Customer Number: 1006628371 Customer Account: 1002088137 | Weted Lot # , County: Owner Name: W HOME RENOVATIONS Owner Phone: (586) 630-1110 | Quote Name: Weted Order Number: 189 Quote Number: 20161989 Order Type: Non-Installed Sales Wall Depth: Payment Terms: Tax Code: MISALESTAX Cust Delivery Date: None Quoted Date: 10/29/2025 Contracted Date: Booked Date: Customer PO #: |

Customer Notes: WHITE CLAD EXTERIOR, PRIMED INTERIORS
 WHITE SPOON TYPE HARDWARE
 HALF SCREENS
 6 LITE SDL GRILLS
 POCKET REPLACEMENT WINDOWS

| Line # | Location: | Attributes | | | |
|--------|-----------|------------|--|--|--|
|--------|-----------|------------|--|--|--|

| | | | | | |
|----|---------------|---|-------------------|------------|--------------------|
| 20 | None Assigned | Pella Reserve, Traditional Replacement Double Hung, 34.75 X 58.75, White | Item Price | Qty | Ext'd Price |
| | | | \$1,860.72 | 6 | \$11,164.32 |



PK #
2221

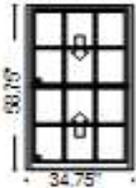
Viewed From Exterior

1: Non-Standard Size Non-Standard Size Double Hung, Equal
Frame Size: 34 3/4 X 58 3/4
General Information: Standard, Luxury, Clad, Pine, 4 3/4", 3 1/4", No Certification
Exterior Color / Finish: Painted, Standard Enduraclad, White
Interior Color / Finish: Primed Interior
Sash / Panel: Ogee, Ogee, Standard, No Sash Lugs
Glass: Insulated Dual Low-E Advanced Low-E Insulating Glass Argon Non High Altitude
Hardware Options: Spoon-Style Lock, White, No Window Opening Control Device, No Limited Opening Hardware, Order Sash Lift, No Integrated Sensor
Screen: Half Screen, Standard EnduraClad, White, Standard, InView™
Performance Information: U-Factor 0.30, SHGC 0.26, VLT 0.48, CPD PEL-N-233-00639-00001, Performance Class CW, PG 50, Calculated Positive DP Rating 50, Calculated Negative DP Rating 50, FPA FL14343, STC 26, OITC 22, Clear Opening Width 31.375, Clear Opening Height 25.312, Clear Opening Area 5.515028, Egress Meets minimum clear opening and 5.0 sq.ft
Grille: ILT, No Custom Grille, 7/8", Traditional (3W2H / 3W2H), Ogee, Ogee
Wrapping Information: Branch Supplied, No Exterior Trim, Manufacturer Recommended Clearance, Perimeter Length = 187".

Rough Opening: 35 - 1/4" X 59 - 1/4"

| Line # | Location: | Attributes | | | |
|--------|-----------|------------|--|--|--|
|--------|-----------|------------|--|--|--|

| | | | | | |
|----|---------------|---|-------------------|------------|--------------------|
| 25 | None Assigned | Pella Reserve, Traditional Replacement Double Hung, 34.75 X 58.75, White | Item Price | Qty | Ext'd Price |
| | | | \$2,031.00 | 1 | \$2,031.00 |



PK #
2221

Viewed From Exterior

1: Non-Standard Size Non-Standard Size Double Hung, Equal
Frame Size: 34 3/4 X 58 3/4
General Information: Standard, Luxury, Clad, Pine, 4 3/4", 3 1/4", No Certification
Exterior Color / Finish: Painted, Standard Enduraclad, White
Interior Color / Finish: Primed Interior
Sash / Panel: Ogee, Ogee, Standard, No Sash Lugs
Glass: Insulated Dual Tempered Low-E Advanced Low-E Insulating Glass Argon Non High Altitude
Hardware Options: Spoon-Style Lock, White, No Window Opening Control Device, No Limited Opening Hardware, Order Sash Lift, No Integrated Sensor
Screen: Half Screen, Standard EnduraClad, White, Standard, InView™
Performance Information: U-Factor 0.30, SHGC 0.26, VLT 0.47, CPD PEL-N-233-00643-00001, Performance Class CW, PG 50, Calculated Positive DP Rating 50, Calculated Negative DP Rating 50, FPA FL14343, STC 28, OITC 24, Clear Opening Width 31.375, Clear Opening Height 25.312, Clear Opening Area 5.515028, Egress Meets minimum clear opening and 5.0 sq.ft
Grille: ILT, No Custom Grille, 7/8", Traditional (3W2H / 3W2H), Ogee, Ogee
Wrapping Information: Branch Supplied, No Exterior Trim, Manufacturer Recommended Clearance, Perimeter Length = 187".

Rough Opening: 35 - 1/4" X 59 - 1/4"

Thank You For Purchasing Pella® Products

PELLA WARRANTY:

Pella products are covered by Pella's limited warranties in effect at the time of sale. All applicable product warranties are incorporated into and become a part of this contract. Please see the warranties for complete details, taking special note of the two important notice sections regarding installation of Pella products and proper management of moisture within the wall system. Neither Pella Corporation nor the Seller will be bound by any other warranty unless specifically set out in this contract. However, Pella Corporation will not be liable for branch warranties which create obligations in addition to or obligations which are inconsistent with Pella written warranties.

Clear opening (egress) information does not take into consideration the addition of a Rolscreen [or any other accessory] to the product. You should consult your local building code to ensure your Pella products meet local egress requirements.

Per the manufacturer's limited warranty, unfinished mahogany exterior windows and doors must be finished upon receipt prior to installing and refinished annually, thereafter. Variations in wood grain, color, texture or natural characteristics are not covered under the limited warranty.

INSYNCTIVE PRODUCTS: In addition, Pella Insynctive Products are covered by the Pella Insynctive Products Software License Agreement and Pella Insynctive Products Privacy Policy in effect at the time of sale, which can be found at [Insynctive.pella.com](https://www.pella.com). By installing or using Your Insynctive Products you are acknowledging the Insynctive Software Agreement and Privacy Policy are part of the terms of sale.

Notice of Collection of Personal Information: We may collect your personal information when you interact with us. Under the California Consumer Privacy Act (CCPA), California residents have specific rights to request this information, request to delete this information, and opt out of the sharing or sale of this information to third parties. To learn more about our collection practices and your rights under the CCPA please visit our link <https://www.pella.com/california-rights-policy/> at [pella.com](https://www.pella.com).

ARBITRATION AND CLASS ACTION WAIVER ("ARBITRATION AGREEMENT")

YOU and Pella and its subsidiaries and the Pella Branded Distributor AGREE TO ARBITRATE DISPUTES ARISING OUT OF OR RELATING TO YOUR PELLA PRODUCTS (INCLUDES PELLA GOODS AND PELLA SERVICES) AND WAIVE THE RIGHT TO HAVE A COURT OR JURY DECIDE DISPUTES. YOU WAIVE ALL RIGHTS TO PROCEED AS A MEMBER OR REPRESENTATIVE OF A CLASS ACTION, INCLUDING CLASS ARBITRATION, REGARDING DISPUTES ARISING OUT OF OR RELATING TO YOUR PELLA PRODUCTS. You may opt out of this Arbitration Agreement by providing notice to Pella no later than ninety (90) calendar days from the date You purchased or otherwise took ownership of Your Pella Goods. To opt out, You must send notice by e-mail to pellawebsupport@pella.com, with the subject line: "Arbitration Opt Out" or by calling (877) 473-5527. Opting out of the Arbitration Agreement will not affect the coverage provided by any applicable limited warranty pertaining to Your Pella Products. For complete information, including the full terms and conditions of this Arbitration Agreement, which are incorporated herein by reference, please visit www.pella.com/arbitration or e-mail to pellawebsupport@pella.com, with the subject line: "Arbitration Details" or call (877) 473-5527. D'ARBITRAGE ET RENONCIATION AU RECOURS COLLECTIF ("convention d'arbitrage") EN FRANÇAIS SEE [PELLA.COM/ARBITRATION](https://www.pella.com/arbitration). DE ARBITRAJE Y RENUNCIA COLECTIVA ("acuerdo de arbitraje") EN ESPAÑOL VER [PELLA.COM/ARBITRATION](https://www.pella.com/arbitration).

Seller shall not be held liable for failure or delay in the performance of its obligations under this Agreement, if such performance is hindered or delayed by the occurrence of an act or event beyond the Seller's reasonable control (force majeure event), including but not limited to earthquakes, unusually severe weather and other Acts of God, fire, strikes and labor unrest, epidemics, riots, war, civil unrest, and government interventions. Seller shall give timely notice of a force majeure event and take such reasonable action to mitigate the impacts of such an event.

Product Performance Information:

U-Factor, Solar Heat Gain Coefficient (SHGC), and Visible Light Transmittance (VLT) are certified by the National Fenestration Rating Council (NFRC).

For more information regarding the finishing, maintenance, service and warranty of all Pella® products, visit the Pella® website at www.pella.com

Manufacturer stipulates that these ratings conform to applicable NFRC procedures for determining whole product performance. NFRC ratings are determined for a fixed set of environmental conditions and a specific product size. NFRC does not recommend any products and does not warrant the suitability of any product for any specific use.

Design Pressure (DP), Performance Class, and Performance Grade (PG) are certified by a third party organization, in many cases the Window and Door Manufacturers Association (WDMA). The certification requires the performance of at least one product of the product line to be tested in accordance with the applicable performance standards and verified by an independent party. The certification indicates that the product(s) of the product line passed the applicable tests. The certification does not apply to mulled and/or product combinations unless noted. Actual product results will vary and change over the products life.

For more performance information along with information on Florida Product Approval System (FPAS) Number and Texas Dept. of Insurance (TDI) number go to www.pella.com/performance.

Including during the construction period, casement windows should never be left open and unlocked for prolong periods or during high wind conditions to avoid sash detachment/damage.

Actual sizes tested for documented STC and OITC ratings may vary from the ASTM E 1425 sizes to better represent Pella product offering.

STC and OITC ratings shown may be conservatively based on products tested with thinner panes of glass.

STC and OITC ratings may be from test results from an equivalent product.

Pella products are covered by Pella's limited warranties in effect at the time of sale. All applicable product warranties are incorporated into and become a part of this contract. Please see the warranties for complete details, taking special note of the two important notice sections regarding installation of Pella products and proper management of moisture within the wall system. Neither Pella Corporation nor PWD, LLC ("Pella Windows and Doors") will be bound by any other warranty unless specifically set out in this contract. However, Pella Corporation will not be liable for branch warranties which create obligations in addition to or obligations which are inconsistent with Pella written warranties.

Clear opening (egress) information does not take into consideration the addition of a Rolscreen [or any other accessory] to the product. You should consult your local building code to ensure your Pella products meet local egress requirements.

Per the manufacturer's limited warranty, unfinished mahogany exterior windows and doors must be finished upon receipt prior to installing and refinished annually, thereafter. Variations in wood grain, color, texture or natural characteristics are not covered under the limited warranty.

GENERAL TERMS AND CONDITIONS: ACCEPTANCE: This order is subject to acceptance by an authorized agent of PWD, LLC. **PRICING:** All quote pricing is valid for a period of 30 days, at which time an adjustment may be made for product offering changes or transportation costs. **CHANGES:** Product manufactured or in process of manufacturing in accordance with the specifications, as outlined herein, cannot be returned or cancelled. Additional materials or services will be billed at the price prevailing at the time of order. **INSPECTION:** Buyer should carefully check material upon delivery and report any claim for product shortages or damages within 3 days. **TERMS:** Unless other payment terms are stated on page 1, a deposit of 50% of the total Contract Price is due upon execution of this Agreement. The remaining 50% shall be paid before the time of delivery. Delivery will not be performed before full payment is made. Accounts not paid within terms are subject to finance charge of 1 ½% per month which is an annual percentage rate of 18%. **LIENS:** Claim of Lien is automatically filed on delinquent jobs as required by law. Waivers of Lien (partial, full or conditional) are furnished upon request after payment. **PERFORMANCE:** Seller shall not be liable for any consequences of delay regardless of cause. **INSTALLATION:** Products purchased from and installed by seller under the "Retail" program are covered by a two-year limited installation warranty. With the exception of the "Retail" program, seller shall not be liable to buyer for any damages or problems resulting from installation of Pella products. In the event that buyer has been referred to an independent contractor, including a Certified Pella Contractor, buyer assumes full responsibility for all installation matters, including the selection of the contractor. **WARRANTY:** Pella products are covered by Pella's limited warranties in effect at the time of sale. All applicable product warranties are incorporated into and become a part of this contract. Please see the warranties for complete details. Neither Pella Corporation nor PWD, LLC will be bound by any other warranty.

Order Checklist

PWD, LLC

Our #1 Priority is Your Satisfaction!

Pella products are made to your specifications, carefully review the details of this contract as we have a NO Return Policy.

Initial below ALL items that have been verified

| | |
|------------------------------------|--|
| _____ Brand: _____ | _____ Brand: _____ |
| _____ Brand: _____ | _____ Brand: _____ |
| _____ Exterior Color: _____ | _____ Grilles: (Exterior/Interior) _____ |
| _____ Interior Stain/Finish: _____ | _____ Glazing/Glass: _____ |
| _____ Blinds/Shades: _____ | _____ Wall Condition: _____ |

Check below ALL items that have been verified/reviewed

Other Product Attributes:

[] Reviewed Sizes on Contract _____ [] Window Hardware Color _____

For more information regarding the finishing, maintenance, service and warranty of all Pella® products, visit the Pella® website at www.pella.com

- Window Screens_____
- Door Screens_____
- Hinging/Sliding (exterior)_____
- Handing (exterior)_____

- Door Hardware/Key Cylinder_____
- Trim/Casing/Mull Covers_____
- Tape/Foam/Caulk/Coil/Etc_____
- Line Items Initialed_____

Other Items Special to this order:

- Item #1_____
- Item #2_____

- Item #3_____
- Item #4_____

Other Information:

- Customer Satisfaction!_____
- No Return Policy_____
- Delivery Date & Special Instructions_____
- Delivery Confirmation Process & Expectations Reviewed
- Delivery Cancellation Fee \$150 if order rejected at job site
- Reschedule Fee \$75 if Cancelled within 24 hours of Scheduled Delivery

- Product Warranty Reviewed_____
- I Have Received Interior Finish Disclaimer_____
- Sales & Service Contact Information Reviewed_____
- Service Contact Information #866-647-0570
- Accessory Hold Items Reviewed & Date Set_____
- Other_____

I hereby authorize Pella Corporation, its affiliates and/or subsidiaries to use, reproduce, and/or publish photographs and/or video that may pertain to me and my project, including materials described below, without compensation. I understand that this material may be used in various communications (e.g. Website, e-newsletters, promotional materials, etc).

Consequently, the Corporation may publish materials, photographs, and/or make reference to the project in a manner that the Corporation or project sponsor deems appropriate.

Comments: _____

Project Checklist has been reviewed

Customer Name (Please print)

Pella Sales Rep Name (Please print)

Customer Signature

Pella Sales Rep Signature

Date

Date

Credit Card Approval Signature

| Order Totals | |
|-------------------------|--------------------|
| Taxable Subtotal | \$13,195.32 |
| Sales Tax @ 6% | \$791.72 |
| Non-taxable Subtotal | \$0.00 |
| Total | \$13,987.04 |
| Deposit Received | \$0.00 |
| Amount Due | \$13,987.04 |

Pella® Reserve – Traditional Double-Hung Windows

Wood Exterior

Detailed Product Description

Frame

- Select softwood, immersion treated with Pella's EnduraGuard® wood protection formula in accordance with WDMA I.S. -4. The EnduraGuard formula includes three active ingredients for protection against the effects of moisture, decay, stains from mold and mildew. Plus, an additional ingredient adds protection against termite damage.
- Interior exposed surfaces are [clear pine] [mahogany] (standard rectangular windows only). Any curved member may have visible finger-jointed surfaces.
- Exterior surfaces are [pine] [mahogany].
- Overall frame depth is 4-3/8" (111mm) for a wall depth of 4-3/16" (106mm).
- Vinyl Jamb liner includes wood / clad inserts.
- Optional factory applied jamb extensions available between 4-5/16" (110mm) and 9-3/16" (233mm).

Sash

- Select softwood, immersion treated with Pella's EnduraGuard® wood protection formula in accordance with WDMA I.S. -4. The EnduraGuard formula includes three active ingredients for protection against the effects of moisture, decay, stains from mold and mildew. Plus, an additional ingredient adds protection against termite damage.
- Interior exposed surfaces are [clear pine] [mahogany (standard rectangular windows only)]. Any curved member may have visible finger-jointed surfaces.
- Exterior surfaces are [pine] [mahogany].
- Sash exterior profile is putty glaze, interior profile is ogee.
- Corners [mortised and tenoned on rectangular units] [mitered on arch head units], glued and secured with metal fasteners.
- Sash thickness is 1-7/8" (47mm).
- [Double-Hung: Upper sash has surface-mounted wash locks] [Single-Hung: Fixed upper sash has surface-mounted wash locks] [Arch Head units have no wash locks].
- Lower sash has concealed wash locks in lower check rail.
- Sashes tilt in for easy cleaning.
- Simulated-Hung units have non-operable upper and lower sashes.

Weatherstripping

- Water-stop santoprene-wrapped foam at head and sill.
- Thermoplastic elastomer bulb with slip-coating set into lower sash for tight contact at check rail.
- Kerf mounted bristle weatherstrip at sill.
- Vinyl-wrapped foam inserted into jamb liner to seal against sides of sash.

Glazing System

- Quality float glass complying with ASTM C 1036.
- Custom and high altitude glazing available.
- Silicone-glazed 11/16" dual-seal insulating glass [[annealed] [tempered]] [[clear] [[Advanced] [SunDefense™] [SunDefense+] [AdvancedComfort] [NaturalSun] [NaturalSun+] Low-E [with argon]] [[bronze] [gray] [green] Advanced Low-E with argon].

Exterior

- [Pine: factory primed with one coat acrylic latex] [Mahogany: [factory primed with one coat acrylic latex] [Unfinished, ready for site finishing]]

Interior

- [Unfinished, ready for site finishing] [factory primed with one coat acrylic latex] [pine: factory prefinished [paint] [stain] ¹].

Hardware

- Galvanized block-and-tackle balances are connected to self-locking balance shoes which are connected to the sashes using zinc die cast terminals and concealed within the frame.
- Sash lock is [standard (cam-action)] [historic spoon-style] [air-conditioner lock] [simulated lock (Single-piece lock ties upper and lower sash together. When removed, lower sash becomes operable)]. Two sash locks on units with frame width 37" and greater.
- Optional sash lift furnished for field installation. Two lifts on units with frame width 37" and greater.
- Hardware finish is [baked enamel [Champagne] [White] [Brown] [Matte Black]] [satin brass] [satin nickel] [oil-rubbed bronze] [distressed bronze] [distressed nickel].

Optional Products

Grilles

- Integral Light Technology® grilles
 - Interior grilles are solid [5/8"] [7/8"] [1-1/4"] ogee profile that are solid [pine] [mahogany]. Interior surfaces are [unfinished, ready for site finishing] [factory primed] [pine: factory prefinished [paint] [stain] ₁].
 - Exterior grilles are solid [5/8"] [7/8"] [1-1/4"] putty glaze profile that are [pine] [mahogany]. Exterior surfaces are water repellent, preservative-treated in accordance with WDMA I.S.-4, and are [unfinished, ready for site finishing] [factory primed].
 - Patterns are [Traditional] [Prairie] [Top Row] [New England] [Victorian].
 - Insulating glass contains non-glare spacer between the panes of glass.
 - Grilles are adhered to both sides of the insulating glass with VHB acrylic adhesive tape and aligned with the non-glare spacer.
– or –
- Grilles-Between-the-Glass₂
 - Insulating glass contains 3/4" contoured aluminum grilles permanently installed between two panes of glass.
 - Patterns are [Traditional] [9-Lite Prairie] [Cross] [Top Row]
 - Interior color is [Black] [White] [Brown₃] [Fossil] [Harvest] [Cordovan] [Ivory] [Tan₃] [Brickstone] [Putty₃].
 - Exterior color₅ is [standard₁].

Screens

- InView™ screens
 - [Half-Size] [Full-Size₄] black vinyl-coated 18/18 mesh fiberglass screen cloth complying with the performance requirements of SMA 1201, set in a [standard roll-form] [premium extruded] aluminum frame aluminum frame fitted to outside of window, supplied complete with all necessary hardware.
 - Full screen spreader bar placed on units > 37" width or > 65" height.
 - Insect screen frame finish is baked enamel.

Hardware

- Optional factory applied limited opening device available for vent units in stainless steel; nominal 3-3/4" opening. Limiting device concealed from view.
- Optional factory applied window opening control device. Device allows window to open less than 4" with normal operation, with a release mechanism that allows the sash to open completely. Complies with ASTM F2090-10.

(1) Contact your local Pella sales representative for current designs and color options.

(2) Available in clear or Low-E insulating glass only.

(3) Tan, Brown and Putty Interior GBG colors are available in single-tone (Brown/Brown, Tan/Tan or Putty/Putty). Other interior colors are also available with Tan or Brown exterior.

(4) Full screens are available on units ≤ 96" height.

(5) Appearance of exterior grille color will vary depending on Low-E coating on glass.



Product Selection Guide

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Glazing Performance W-HG-6

Grille Types

Grille Profiles W-HG-10

Grille Patterns W-HG-11

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Replacement Units..... W-HG-15

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Detailed Product Descriptions..... W-HG-30

Unit Sections

Wood Collection W-HG-32

Double-, and Single-Hung Clad W-HG-33

Single- and Double-Hung Wood W-HG-39

Supporting documents for this product:

(Link path included for easy copy/paste sharing, click on links to open document or access by visiting Pella.com)

Test Reports:

https://media.pella.com/professional/adm/CertificationReports/Test_Reports_PR-Clad.pdf?utm_source=pdfdoc

CSI Specs

(readable using Microsoft Word or other text editing application):

https://media.pella.com/professional/adm/Wood-CSI_Specs/08552-R.rtf?utm_source=pdfdoc

AIA Masterspec

(readable using Microsoft Word or other text editing application):

https://media.pella.com/professional/adm/Wood-CSI_Specs/Masterspec/085200_fl.doc?utm_source=pdfdoc

Detailed Product Description

(readable using Microsoft Word or other text editing application):

Clad: https://media.pella.com/professional/adm/Clad-Wood/PR-DoubleHung-C.rtf?utm_source=pdfdoc

Wood: https://media.pella.com/professional/adm/Clad-Wood/PR-DoubleHung-W.rtf?utm_source=pdfdoc

Size Tables

(requires appropriate CAD software to read and use):

https://media.pella.com/professional/adm/Clad-Wood/ASCDHEV_D.dwg?utm_source=pdfdoc

CAD cross sections

(requires appropriate CAD software to read and use):

Clad: https://media.pella.com/professional/adm/Clad-Wood/ASRM5DH3_D.dwg?utm_source=pdfdoc

Wood: https://media.pella.com/professional/adm/Clad-Wood/ASWM4DHRPT3b.dwg?utm_source=pdfdoc

3D & BIM

(requires appropriate software to read and use):

https://media.pella.com/professional/adm/RevitFiles/PR-Revit/Window-Double_Hung-Pella-Reserve-Traditional.zip?utm_source=pdfdoc

Sketchup

(requires appropriate software to read and use):

https://media.pella.com/professional/adm/Clad-Wood/PellaSKP_PellaReserve_Traditional_Double-Hung.zip?utm_source=pdfdoc

Combination Recommendations:

https://media.pella.com/professional/adm/Clad-Wood/D_Combinations.pdf?utm_source=pdfdoc

Installation Details:

https://media.pella.com/professional/adm/Clad-Wood/F_InstallationDetails.pdf?utm_source=pdfdoc

Impact-Resistant Double-Hung, Complete Product Information:

https://media.pella.com/professional/adm/Clad-Wood/Pella-ImpactResistant_DoubleHung.pdf?utm_source=pdfdoc

Bay/Bow Details:

https://media.pella.com/professional/adm/Clad-Wood/Pella-Wood_BayBowWindows.pdf?utm_source=pdfdoc

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The information published in this document is believed to be accurate at the time of publication. However, because we are constantly working to improve our products, specifications are subject to change without notice. Consult your local Pella representative for up-to-date product information.



Pella® Reserve™ Traditional Hung Window

Size and Performance Data

| Air/Water/Structural Performance ₁ | |
|--|-------------------------------------|
| Meets or Exceeds AAMA/WDMA Ratings | H-CW30 - CW50 Hallmark Certified |
| Air Infiltration (cfm/ft ² of frame @ 1.57 psf wind pressure) ₂ | 0.11 |
| Water Resistance | 4.6 – 7.5 psf |
| Design Pressure | 30 – 50 psf |

| Other Performance Criteria | |
|---|-------|
| Forced Entry Resistance Level (Minimum Security Grade) ₃ | 10 |
| Operating Force (lb) Initiate Motion / Maintain Motion (of Hallmark tested size and glazing) ₄ | 40/45 |

Sound Transmission Class / Outdoor-Indoor Transmission Class

| Product | Frame Size Tested ₅ | Glazing System | | | | STC Rating | OITC Rating |
|-------------------------|--------------------------------|---------------------------|--------------------------|--------------------------|----------------------|------------|-------------|
| | | Overall Glazing Thickness | Exterior Glass Thickness | Interior Glass Thickness | Third Pane Thickness | | |
| Clad Double-Hung Window | WITHOUT GRILLES | | | | | | |
| | 45" x 65" | 11/16" | 2.5mm | 2.5mm | — | 28 | 24 |
| | 47" x 59" | 11/16" | 5mm | 3mm | — | 31 | 27 |
| | 45" x 65" | 11/16" | 3mm | 6mm PVB | — | 33 | 28 |
| Wood Double-Hung Window | WITHOUT GRILLES | | | | | | |
| | 45" x 65" | 11/16" | 2.5mm | 2.5mm | — | 26 | 22 |
| | 45" x 65" | 11/16" | 3mm | 3mm | — | 29 | 24 |

(—) = Not Available

- (1) Maximum performance for single unit when glazed with the appropriate glass thickness. See Design Data pages in this section for specific product performance class and grade values.
- (2) Published performance data for air infiltration is determined by testing a minimum of four (4) products of NFRC model size. Testing is conducted in accordance with ASTM E283. Air infiltration ratings for products will differ by size. The performance data does not apply to combination assemblies unless noted. Actual product performance may vary for a number of reasons including installation and product care.
- (3) The higher the level, the greater the product's ability to resist forced entry.
- (4) Glazing configurations may result in higher operational forces
- (5) ASTM E 1425 defines standard sizes for acoustical testing. Ratings achieved at that size are representative of all sizes of the same configuration.



Pella® Reserve™ Traditional Hung Window

Features and Options

| Standard | Options / Upgrades |
|--|---|
| Glazing | |
| Glazing Type | |
| Dual-Pane Insulating Glass | — |
| Insulated Glass Options/Low-E Types | |
| Advanced Low-E | SunDefense™ Low-E |
| | SunDefense+ Low-E |
| | AdvancedComfort Low-E |
| | NaturalSun Low-E |
| | NaturalSun+ Low-E |
| Clear (no Low-E coating) | |
| Additional Glass Options | |
| Annealed Glass | Tempered Glass |
| | Obscure Glass ₁ |
| | Low-E Tinted Glass (Bronze, Gray and Green) |
| | Non-Impact Laminated Dual-Pane Insulating Glass |
| Gas Fill/High Altitude | |
| Argon | High altitude |
| Exterior | |
| Exterior Sash Profile | |
| Ogee | Putty Glaze |
| Exterior Finish | |
| EnduraClad® aluminum-clad exterior | EnduraClad Plus protective finish, Factory Primed Pine wood exterior, Unfinished Mahogany wood exterior |
| Cladding Colors | |
| Standard colors ₁ | Feature Colors, Custom Colors ₁ |
| Interior | |
| Unfinished wood | Factory primed |
| | Factory prefinished paint ₁ |
| | Factory prefinished stain ₁ |
| Wood Types | |
| Pine | Mahogany, Douglas Fir |
| Hardware | |
| Hardware Types | |
| Sash lifts, Cam-action lock | Simulated lock |
| | Air conditioner lock |
| | Historical spoon-style lock (surface mounted) |
| Hardware Finishes | |
| Champagne, White, Brown or Matte Black | Satin Brass, Satin Nickel, Oil-Rubbed Bronze, Distressed Bronze, Distressed Nickel ₄ |
| Tilt-Wash Cleaning | |
| Tilt to interior on both sashes | — |
| Grilles | |
| Integral Light Technology® Grilles | |
| — | Traditional, Prairie, Top Row, Cross, New England, Victorian, Diamond, Custom |
| Grilles-Between-the-Glass | |
| — | Traditional, Prairie, Top Row ₁ , Cross, Custom-Equally Divided |
| Screens | |
| — | Integrated Rolscreen® - retractable screen, InView™ screens, in standard roll-form or premium extruded aluminum frame |

(-) = Not Available

(1) Contact your local Pella sales representative for current designs and color options.

(2) Only available for Pella Reserve products with triple glazing. Not available with high altitude glazing.

(3) Available with Low-E argon-insulated glass only.

(4) Antique Brass, Distressed Nickel, Distressed Bronze finishes available for Historical spoon-style lock only.



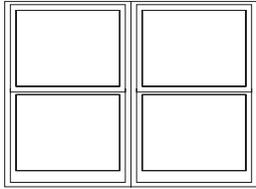
Pella® Reserve™ Traditional Hung Window

Combination Assemblies - Rectangular Units

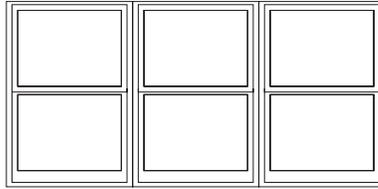
Combinations are a great way to create visual interest in any project. A combination is an assembly formed by two or more separate windows or doors whose frames are mullioned together by a combination or reinforcing mullion.

Pella window combinations are available in an endless variety of arrangements. Below are some examples of factory-assembled combinations. See the Combinations Recommendations document for typical mullions, requirements and limitations.

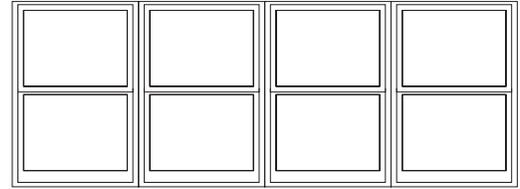
Contact your local Pella sales representative for more information.



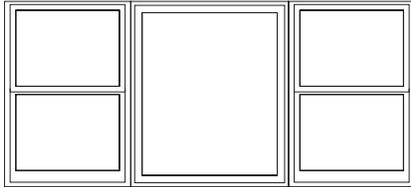
Two-Wide



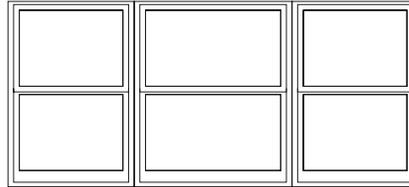
Three-Wide Equal



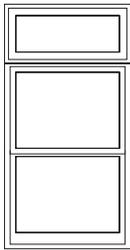
Four-Wide Equal



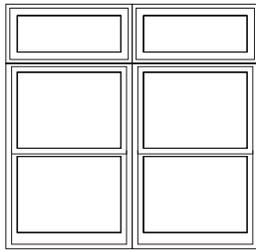
Center Fixed with Flankers



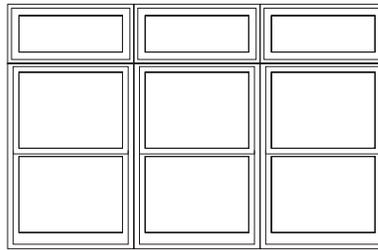
Three-Wide Unequal



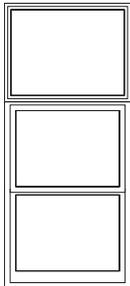
Transom over Single



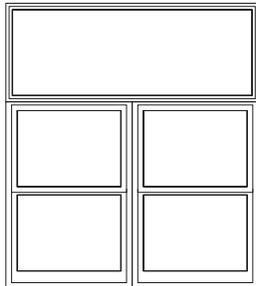
Two-Wide Transoms over Two-Wide



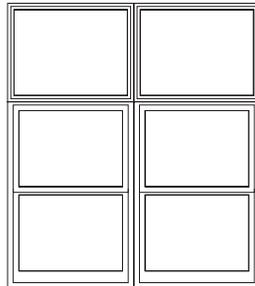
Three-Wide Transoms over Three-Wide



Clad Frame over Single



Single Clad Frame over Two-Wide



Two Wide Clad Frame over Two-Wide



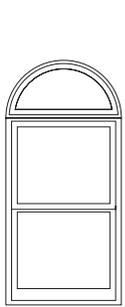
Pella® Reserve™ Traditional Hung Window

Combination Assemblies - Arch Top Units

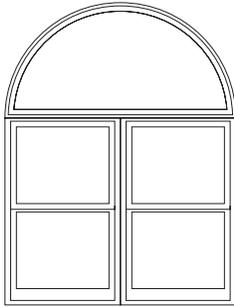
Combinations are a great way to create visual interest in any project. A combination is an assembly formed by two or more separate windows or doors whose frames are mullioned together by a combination or reinforcing mullion.

Pella window combinations are available in an endless variety of arrangements, below are some examples. See the Combinations Recommendations document for typical mullions, requirements and limitations.

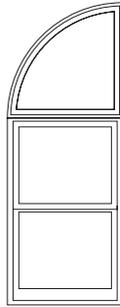
Contact your local Pella sales representative for more information.



Half Circle over Single



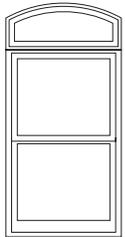
Half Circle over Two-Wide



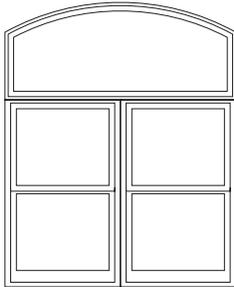
Left Quarter Circle over Single



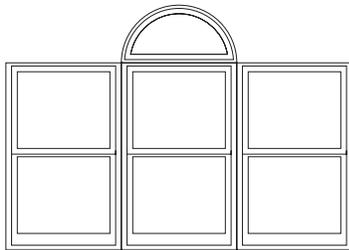
Right Quarter Circle over Single



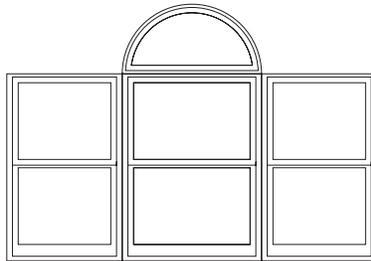
Arch Head over Single



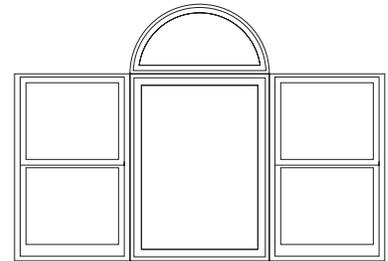
Arch Head over Two-Wide



Half Circle centered on Three-Wide Equal



Half Circle over Three-Wide Unequal



Half Circle over Center Fixed with Flankers



Pella® Reserve™ Traditional Hung Window

Glazing Performance - Total Unit

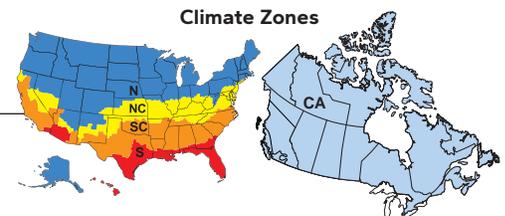
| Glazing Thickness | Type of Glazing | NFRC Certified Product # | Glass (mm) | | Gap Fill | Performance Values ¹ | | | | Shaded Areas Meet ENERGY STAR® Performance Criteria in Zones Shown | | | | | |
|---|--------------------------------|--------------------------|------------|------|----------|---------------------------------|------|------|----|--|----|----|---|---------------------|------|
| | | | Ext. | Int. | | U-Factor | SHGC | VLT | CR | U. S. | | | | Canada ² | |
| | | | | | | | | | | Zone | | | | ER | Zone |
| Vent Dual-Pane Glazing - Aluminum-Clad Exterior | | | | | | | | | | N | NC | SC | S | | CA |
| 11/16" | Clear IG | PEL-N-232-01105-00001 | 2.5 | 2.5 | air | 0.46 | 0.60 | 0.62 | 44 | | | | | | |
| | with grilles-between-the-glass | PEL-N-232-01106-00001 | | | | 0.46 | 0.53 | 0.55 | 44 | | | | | | |
| | with integral grilles | PEL-N-232-01107-00001 | | | | 0.46 | 0.53 | 0.55 | 44 | | | | | | |
| 11/16" | Clear IG | PEL-N-232-01109-00001 | 3 | 3 | air | 0.46 | 0.58 | 0.61 | 44 | | | | | | |
| | with grilles-between-the-glass | PEL-N-232-01110-00001 | | | | 0.46 | 0.52 | 0.55 | 44 | | | | | | |
| | with integral grilles | PEL-N-232-01111-00001 | | | | 0.46 | 0.52 | 0.55 | 44 | | | | | | |
| 11/16" | Advanced Low-E IG | PEL-N-232-01141-00001 | 2.5 | 2.5 | argon | 0.29 | 0.28 | 0.53 | 60 | | | | | | |
| | with grilles-between-the-glass | PEL-N-232-01142-00001 | | | | 0.29 | 0.25 | 0.47 | 60 | | | | | | |
| | with integral grilles | PEL-N-232-01143-00001 | | | | 0.29 | 0.25 | 0.47 | 60 | | | | | | |
| 11/16" | Advanced Low-E IG | PEL-N-232-01145-00001 | 3 | 3 | argon | 0.29 | 0.28 | 0.52 | 59 | | | | | | |
| | with grilles-between-the-glass | PEL-N-232-01146-00001 | | | | 0.29 | 0.25 | 0.46 | 59 | | | | | | |
| | with integral grilles | PEL-N-232-01147-00001 | | | | 0.29 | 0.25 | 0.46 | 59 | | | | | | |
| 11/16" | SunDefense™ Low-E IG | PEL-N-232-01189-00001 | 2.5 | 2.5 | argon | 0.28 | 0.21 | 0.49 | 60 | | | SC | S | | |
| | with grilles-between-the-glass | PEL-N-232-01190-00001 | | | | 0.28 | 0.19 | 0.43 | 60 | | | SC | S | | |
| | with integral grilles | PEL-N-232-01191-00001 | | | | 0.29 | 0.19 | 0.43 | 60 | | | | S | | |
| 11/16" | SunDefense™ Low-E IG | PEL-N-232-01193-00001 | 3 | 3 | argon | 0.28 | 0.21 | 0.48 | 59 | | | SC | S | | |
| | with grilles-between-the-glass | PEL-N-232-01194-00001 | | | | 0.28 | 0.19 | 0.43 | 59 | | | SC | S | | |
| | with integral grilles | PEL-N-232-01195-00001 | | | | 0.29 | 0.19 | 0.43 | 59 | | | | S | | |
| 11/16" | SunDefense+ Low-E IG | PEL-N-232-01813-00001 | 2.5 | 2.5 | argon | 0.25 | 0.20 | 0.48 | 49 | | NC | SC | S | | |
| | with grilles-between-the-glass | PEL-N-232-01814-00001 | | | | 0.25 | 0.18 | 0.42 | 49 | | NC | SC | S | | |
| | with integral grilles | PEL-N-232-01815-00001 | | | | 0.25 | 0.18 | 0.42 | 49 | | NC | SC | S | | |
| 11/16" | SunDefense+ Low-E IG | PEL-N-232-01821-00001 | 3 | 3 | argon | 0.25 | 0.20 | 0.47 | 48 | | NC | SC | S | | |
| | with grilles-between-the-glass | PEL-N-232-01822-00001 | | | | 0.25 | 0.18 | 0.42 | 48 | | NC | SC | S | | |
| | with integral grilles | PEL-N-232-01823-00001 | | | | 0.26 | 0.18 | 0.42 | 48 | | | SC | S | | |
| 11/16" | AdvancedComfort Low-E IG | PEL-N-232-01165-00001 | 2.5 | 2.5 | argon | 0.25 | 0.28 | 0.52 | 48 | | NC | | | | |
| | with grilles-between-the-glass | PEL-N-232-01166-00001 | | | | 0.25 | 0.25 | 0.46 | 48 | | NC | | | | |
| | with integral grilles | PEL-N-232-01167-00001 | | | | 0.26 | 0.25 | 0.46 | 48 | | | | | | |
| 11/16" | AdvancedComfort Low-E IG | PEL-N-232-01169-00001 | 3 | 3 | argon | 0.25 | 0.27 | 0.51 | 47 | | NC | | | | |
| | with grilles-between-the-glass | PEL-N-232-01170-00001 | | | | 0.25 | 0.25 | 0.45 | 47 | | NC | | | | |
| | with integral grilles | PEL-N-232-01171-00001 | | | | 0.26 | 0.25 | 0.45 | 47 | | | | | | |
| 11/16" | NaturalSun Low-E IG | PEL-N-232-01117-00001 | 2.5 | 2.5 | argon | 0.30 | 0.52 | 0.60 | 59 | | | | | | |
| | with grilles-between-the-glass | PEL-N-232-01118-00001 | | | | 0.30 | 0.47 | 0.53 | 59 | | | | | | |
| | with integral grilles | PEL-N-232-01119-00001 | | | | 0.30 | 0.47 | 0.53 | 59 | | | | | | |
| 11/16" | NaturalSun Low-E IG | PEL-N-232-01121-00001 | 3 | 3 | argon | 0.30 | 0.52 | 0.59 | 58 | | | | | | |
| | with grilles-between-the-glass | PEL-N-232-01122-00001 | | | | 0.30 | 0.46 | 0.53 | 58 | | | | | | |
| | with integral grilles | PEL-N-232-01123-00001 | | | | 0.30 | 0.46 | 0.53 | 58 | | | | | | |
| 11/16" | NaturalSun+ Low-E IG | PEL-N-232-01781-00001 | 2.5 | 2.5 | argon | 0.26 | 0.48 | 0.58 | 47 | N | | | | 35 | CA |
| | with grilles-between-the-glass | PEL-N-232-01782-00001 | | | | 0.26 | 0.43 | 0.52 | 47 | N | | | | | |
| | with integral grilles | PEL-N-232-01783-00001 | | | | 0.27 | 0.43 | 0.52 | 47 | | | | | | |
| 11/16" | NaturalSun+ Low-E IG | PEL-N-232-01789-00001 | 3 | 3 | argon | 0.26 | 0.47 | 0.58 | 46 | N | | | | 34 | CA |
| | with grilles-between-the-glass | PEL-N-232-01790-00001 | | | | 0.26 | 0.42 | 0.51 | 46 | N | | | | | |
| | with integral grilles | PEL-N-232-01791-00001 | | | | 0.26 | 0.42 | 0.51 | 46 | N | | | | | |

R-Value = 1/U-Factor
 SHGC = Solar Heat Gain Coefficient
 VLT % = Visible Light Transmission
 CR = Condensation Resistance
 ER = Canadian Energy Rating

(1) Glazing performance values are calculated for Pine using NFRC 100, NFRC 200 and NFRC 500. Thermal performance of other wood species may vary. ENERGY STAR® values are updated to 2023 (Version 7) criteria.

(2) The values shown are based on Canada's updated ENERGY STAR® 2020 initiative.

Visit www.energystar.gov for Energy Star guidelines.
 Non Rectangular Unit thermal values will vary slightly.





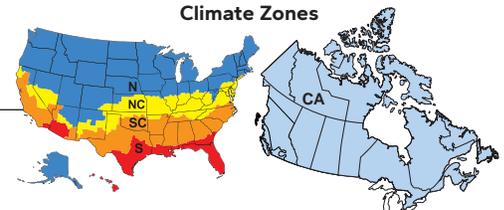
Pella® Reserve™ Traditional Hung Window

Glazing Performance - Total Unit

| Glazing Thickness | Type of Glazing | NFRC Certified Product # | Glass (mm) | | Gap Fill | Performance Values ¹ | | | | Shaded Areas Meet ENERGY STAR® Performance Criteria in Zones Shown | | | | | | | |
|--|--------------------------------|--------------------------|------------|------|----------|---------------------------------|------|------|----|--|----|----|---|---------------------|------|----|--|
| | | | Ext. | Int. | | U-Factor | SHGC | VLT | CR | U. S. | | | | Canada ² | | | |
| | | | | | | | | | | Zone | | | | ER | Zone | | |
| | | | | | | | | | | N | NC | SC | S | | | CA | |
| Tinted Glazing | | | | | | | | | | | | | | | | | |
| 11/16" | Bronze Advanced Low-E IG | PEL-N-232-01225-00002 | 5 | 3 | argon | 0.29 | 0.25 | 0.34 | 58 | | | | | | | | |
| | with grilles-between-the-glass | PEL-N-232-01226-00002 | | | | 0.31 | 0.23 | 0.30 | 58 | | | | S | | | | |
| | with integral grilles | PEL-N-232-01227-00002 | | | | 0.30 | 0.23 | 0.30 | 58 | | | | S | | | | |
| 11/16" | Gray Advanced Low-E IG | PEL-N-232-01225-00003 | 5 | 3 | argon | 0.29 | 0.23 | 0.29 | 58 | | | | S | | | | |
| | with grilles-between-the-glass | PEL-N-232-01226-00003 | | | | 0.31 | 0.21 | 0.26 | 58 | | | | S | | | | |
| | with integral grilles | PEL-N-232-01227-00003 | | | | 0.30 | 0.21 | 0.26 | 58 | | | | S | | | | |
| 11/16" | Green Advanced Low-E IG | PEL-N-232-01225-00004 | 5 | 3 | argon | 0.29 | 0.28 | 0.46 | 58 | | | | | | | | |
| | with grilles-between-the-glass | PEL-N-232-01226-00004 | | | | 0.31 | 0.25 | 0.41 | 58 | | | | | | | | |
| | with integral grilles | PEL-N-232-01227-00004 | | | | 0.30 | 0.25 | 0.41 | 58 | | | | | | | | |
| Vent Dual-Pane High Altitude Glazing - Aluminum-Clad Exterior | | | | | | | | | | | | | | | | | |
| 11/16" | Advanced Low-E IG | PEL-N-232-01153-00001 | 2.5 | 2.5 | air | 0.32 | 0.28 | 0.53 | 56 | | | | | | | | |
| | with grilles-between-the-glass | PEL-N-232-01154-00001 | | | | 0.32 | 0.25 | 0.47 | 56 | | | | | | | | |
| | with integral grilles | PEL-N-232-01155-00001 | | | | 0.33 | 0.25 | 0.47 | 56 | | | | | | | | |
| 11/16" | Advanced Low-E IG | PEL-N-232-01157-00001 | 3 | 3 | air | 0.32 | 0.28 | 0.52 | 55 | | | | | | | | |
| | with grilles-between-the-glass | PEL-N-232-01158-00001 | | | | 0.32 | 0.25 | 0.46 | 55 | | | | | | | | |
| | with integral grilles | PEL-N-232-01159-00001 | | | | 0.33 | 0.25 | 0.46 | 55 | | | | | | | | |
| 11/16" | SunDefense™ Low-E IG | PEL-N-232-01201-00001 | 2.5 | 2.5 | air | 0.32 | 0.21 | 0.49 | 56 | | | | S | | | | |
| | with grilles-between-the-glass | PEL-N-232-01202-00001 | | | | 0.32 | 0.19 | 0.43 | 56 | | | | S | | | | |
| | with integral grilles | PEL-N-232-01203-00001 | | | | 0.33 | 0.19 | 0.43 | 56 | | | | S | | | | |
| 11/16" | SunDefense™ Low-E IG | PEL-N-232-01205-00001 | 3 | 3 | air | 0.32 | 0.21 | 0.48 | 55 | | | | S | | | | |
| | with grilles-between-the-glass | PEL-N-232-01206-00001 | | | | 0.32 | 0.19 | 0.43 | 55 | | | | S | | | | |
| | with integral grilles | PEL-N-232-01207-00001 | | | | 0.33 | 0.19 | 0.43 | 55 | | | | S | | | | |
| 11/16" | SunDefense+ Low-E IG | PEL-N-232-01809-00001 | 2.5 | 2.5 | air | 0.27 | 0.21 | 0.48 | 44 | | | SC | S | | | | |
| | with grilles-between-the-glass | PEL-N-232-01810-00001 | | | | 0.27 | 0.19 | 0.42 | 44 | | | SC | S | | | | |
| | with integral grilles | PEL-N-232-01811-00001 | | | | 0.28 | 0.19 | 0.42 | 44 | | | SC | S | | | | |
| 11/16" | SunDefense+ Low-E IG | PEL-N-232-01817-00001 | 3 | 3 | air | 0.27 | 0.21 | 0.47 | 44 | | | SC | S | | | | |
| | with grilles-between-the-glass | PEL-N-232-01818-00001 | | | | 0.27 | 0.19 | 0.42 | 44 | | | SC | S | | | | |
| | with integral grilles | PEL-N-232-01819-00001 | | | | 0.28 | 0.19 | 0.42 | 43 | | | SC | S | | | | |
| 11/16" | AdvancedComfort Low-E IG | PEL-N-232-01177-00001 | 2.5 | 2.5 | air | 0.27 | 0.28 | 0.52 | 44 | | | | | | | | |
| | with grilles-between-the-glass | PEL-N-232-01178-00001 | | | | 0.27 | 0.25 | 0.46 | 44 | | | | | | | | |
| | with integral grilles | PEL-N-232-01179-00001 | | | | 0.28 | 0.25 | 0.46 | 44 | | | | | | | | |
| 11/16" | AdvancedComfort Low-E IG | PEL-N-232-01181-00001 | 3 | 3 | air | 0.28 | 0.27 | 0.51 | 43 | | | | | | | | |
| | with grilles-between-the-glass | PEL-N-232-01182-00001 | | | | 0.28 | 0.25 | 0.45 | 43 | | | | | | | | |
| | with integral grilles | PEL-N-232-01183-00001 | | | | 0.28 | 0.25 | 0.45 | 43 | | | | | | | | |
| 11/16" | NaturalSun Low-E IG | PEL-N-232-01129-00001 | 2.5 | 2.5 | air | 0.33 | 0.52 | 0.60 | 56 | | | | | | | | |
| | with grilles-between-the-glass | PEL-N-232-01130-00001 | | | | 0.33 | 0.47 | 0.53 | 56 | | | | | | | | |
| | with integral grilles | PEL-N-232-01131-00001 | | | | 0.34 | 0.47 | 0.53 | 55 | | | | | | | | |
| 11/16" | NaturalSun Low-E IG | PEL-N-232-01133-00001 | 3 | 3 | air | 0.33 | 0.51 | 0.59 | 55 | | | | | | | | |
| | with grilles-between-the-glass | PEL-N-232-01134-00001 | | | | 0.33 | 0.46 | 0.52 | 55 | | | | | | | | |
| | with integral grilles | PEL-N-232-01135-00001 | | | | 0.34 | 0.46 | 0.52 | 55 | | | | | | | | |
| 11/16" | NaturalSun+ Low-E IG | PEL-N-232-01777-00001 | 2.5 | 2.5 | air | 0.28 | 0.48 | 0.58 | 43 | | | | | | | | |
| | with grilles-between-the-glass | PEL-N-232-01778-00001 | | | | 0.28 | 0.43 | 0.52 | 43 | | | | | | | | |
| | with integral grilles | PEL-N-232-01779-00001 | | | | 0.29 | 0.43 | 0.52 | 43 | | | | | | | | |
| 11/16" | NaturalSun+ Low-E IG | PEL-N-232-01785-00001 | 3 | 3 | air | 0.28 | 0.47 | 0.58 | 43 | | | | | | | | |
| | with grilles-between-the-glass | PEL-N-232-01786-00001 | | | | 0.28 | 0.42 | 0.51 | 43 | | | | | | | | |
| | with integral grilles | PEL-N-232-01787-00001 | | | | 0.29 | 0.42 | 0.51 | 42 | | | | | | | | |

R-Value = 1/U-Factor
 SHGC = Solar Heat Gain Coefficient
 VLT % = Visible Light Transmission
 CR = Condensation Resistance
 ER = Canadian Energy Rating

Climate Zones



(1) Glazing performance values are calculated for Pine using NFRC 100, NFRC 200 and NFRC 500. Thermal performance of other wood species may vary. ENERGY STAR® values are updated to 2023 (Version 7) criteria.

(2) The values shown are based on Canada's updated ENERGY STAR® 2020 initiative.

Visit www.energystar.gov for Energy Star guidelines.
 Non Rectangular Unit thermal values will vary slightly.



Pella® Reserve™ Traditional Hung Window

Glazing Performance - Total Unit

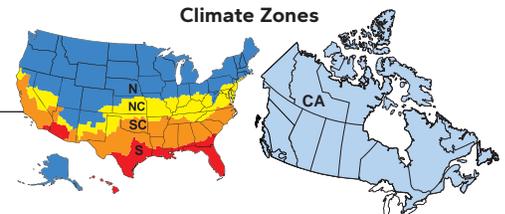
| Glazing Thickness | Type of Glazing | NFRC Certified Product # | Glass (mm) | | Gap Fill | Performance Values ¹ | | | | Shaded Areas Meet ENERGY STAR® Performance Criteria in Zones Shown | | | | | |
|--|--------------------------------|--------------------------|------------|------|----------|---------------------------------|------|------|----|--|----|----|---|---------------------|------|
| | | | Ext. | Int. | | U-Factor | SHGC | VLT | CR | U. S. | | | | Canada ² | |
| | | | | | | | | | | Zone | | | | ER | Zone |
| Vent Dual-Pane Glazing - Wood Exterior | | | | | | | | | | N | NC | SC | S | | CA |
| 11/16" | Clear IG | PEL-N-234-01105-00001 | 2.5 | 2.5 | air | 0.45 | 0.60 | 0.62 | 44 | | | | | | |
| | with grilles-between-the-glass | PEL-N-234-01106-00001 | | | | 0.45 | 0.54 | 0.56 | 44 | | | | | | |
| | with integral grilles | PEL-N-234-01107-00001 | | | | 0.45 | 0.54 | 0.56 | 44 | | | | | | |
| 11/16" | Clear IG | PEL-N-234-01109-00001 | 3 | 3 | air | 0.45 | 0.59 | 0.62 | 43 | | | | | | |
| | with grilles-between-the-glass | PEL-N-234-01110-00001 | | | | 0.45 | 0.53 | 0.55 | 43 | | | | | | |
| | with integral grilles | PEL-N-234-01111-00001 | | | | 0.46 | 0.53 | 0.55 | 43 | | | | | | |
| 11/16" | Advanced Low-E IG | PEL-N-234-01141-00001 | 2.5 | 2.5 | argon | 0.28 | 0.28 | 0.53 | 59 | | | | | | |
| | with grilles-between-the-glass | PEL-N-234-01142-00001 | | | | 0.28 | 0.25 | 0.47 | 59 | | | | | | |
| | with integral grilles | PEL-N-234-01143-00001 | | | | 0.29 | 0.25 | 0.47 | 59 | | | | | | |
| 11/16" | Advanced Low-E IG | PEL-N-234-01145-00001 | 3 | 3 | argon | 0.28 | 0.28 | 0.52 | 58 | | | | | | |
| | with grilles-between-the-glass | PEL-N-234-01146-00001 | | | | 0.28 | 0.25 | 0.47 | 58 | | | | | | |
| | with integral grilles | PEL-N-234-01147-00001 | | | | 0.29 | 0.25 | 0.47 | 58 | | | | | | |
| 11/16" | SunDefense™ Low-E IG | PEL-N-234-01189-00001 | 2.5 | 2.5 | argon | 0.28 | 0.21 | 0.49 | 60 | | | SC | S | | |
| | with grilles-between-the-glass | PEL-N-234-01190-00001 | | | | 0.28 | 0.19 | 0.44 | 60 | | | SC | S | | |
| | with integral grilles | PEL-N-234-01191-00001 | | | | 0.28 | 0.19 | 0.44 | 60 | | | SC | S | | |
| 11/16" | SunDefense™ Low-E IG | PEL-N-234-01193-00001 | 3 | 3 | argon | 0.28 | 0.21 | 0.49 | 59 | | | SC | S | | |
| | with grilles-between-the-glass | PEL-N-234-01194-00001 | | | | 0.28 | 0.19 | 0.43 | 59 | | | SC | S | | |
| | with integral grilles | PEL-N-234-01195-00001 | | | | 0.28 | 0.19 | 0.43 | 59 | | | SC | S | | |
| 11/16" | SunDefense+ Low-E IG | PEL-N-234-01813-00001 | 2.5 | 2.5 | argon | 0.24 | 0.21 | 0.48 | 49 | | NC | SC | S | | |
| | with grilles-between-the-glass | PEL-N-234-01814-00001 | | | | 0.24 | 0.19 | 0.43 | 49 | | NC | SC | S | | |
| | with integral grilles | PEL-N-234-01815-00001 | | | | 0.25 | 0.19 | 0.43 | 49 | | NC | SC | S | | |
| 11/16" | SunDefense+ Low-E IG | PEL-N-234-01821-00001 | 3 | 3 | argon | 0.24 | 0.21 | 0.47 | 47 | | NC | SC | S | | |
| | with grilles-between-the-glass | PEL-N-234-01822-00001 | | | | 0.24 | 0.19 | 0.42 | 47 | | NC | SC | S | | |
| | with integral grilles | PEL-N-234-01823-00001 | | | | 0.25 | 0.19 | 0.42 | 47 | | NC | SC | S | | |
| 11/16" | AdvancedComfort Low-E IG | PEL-N-234-01165-00001 | 2.5 | 2.5 | argon | 0.24 | 0.28 | 0.52 | 48 | | NC | | | | |
| | with grilles-between-the-glass | PEL-N-234-01166-00001 | | | | 0.24 | 0.25 | 0.46 | 48 | | NC | | | | |
| | with integral grilles | PEL-N-234-01167-00001 | | | | 0.25 | 0.25 | 0.46 | 48 | | NC | | | | |
| 11/16" | AdvancedComfort Low-E IG | PEL-N-234-01169-00001 | 3 | 3 | argon | 0.24 | 0.28 | 0.51 | 47 | | NC | | | | |
| | with grilles-between-the-glass | PEL-N-234-01170-00001 | | | | 0.24 | 0.25 | 0.46 | 47 | | NC | | | | |
| | with integral grilles | PEL-N-234-01171-00001 | | | | 0.25 | 0.25 | 0.46 | 47 | | NC | | | | |
| 11/16" | NaturalSun Low-E IG | PEL-N-234-01117-00001 | 2.5 | 2.5 | argon | 0.29 | 0.53 | 0.60 | 59 | | | | | 34 | CA |
| | with grilles-between-the-glass | PEL-N-234-01118-00001 | | | | 0.29 | 0.47 | 0.53 | 59 | | | | | | |
| | with integral grilles | PEL-N-234-01119-00001 | | | | 0.30 | 0.47 | 0.53 | 59 | | | | | | |
| 11/16" | NaturalSun Low-E IG | PEL-N-234-01121-00001 | 3 | 3 | argon | 0.29 | 0.52 | 0.59 | 58 | | | | | | |
| | with grilles-between-the-glass | PEL-N-234-01122-00001 | | | | 0.29 | 0.46 | 0.53 | 58 | | | | | | |
| | with integral grilles | PEL-N-234-01123-00001 | | | | 0.30 | 0.46 | 0.53 | 58 | | | | | | |
| 11/16" | NaturalSun+ Low-E IG | PEL-N-234-01781-00001 | 2.5 | 2.5 | argon | 0.25 | 0.48 | 0.59 | 47 | N | | | | 36 | CA |
| | with grilles-between-the-glass | PEL-N-234-01782-00001 | | | | 0.25 | 0.43 | 0.52 | 47 | N | | | | | |
| | with integral grilles | PEL-N-234-01783-00001 | | | | 0.26 | 0.43 | 0.52 | 47 | N | | | | | |
| 11/16" | NaturalSun+ Low-E IG | PEL-N-234-01789-00001 | 3 | 3 | argon | 0.25 | 0.47 | 0.58 | 46 | N | | | | 35 | CA |
| | with grilles-between-the-glass | PEL-N-234-01790-00001 | | | | 0.25 | 0.42 | 0.52 | 46 | N | | | | | |
| | with integral grilles | PEL-N-234-01791-00001 | | | | 0.26 | 0.42 | 0.52 | 46 | N | | | | | |

R-Value = 1/U-Factor
 SHGC = Solar Heat Gain Coefficient
 VLT % = Visible Light Transmission
 CR = Condensation Resistance
 ER = Canadian Energy Rating

(1) Glazing performance values are calculated for Pine using NFRC 100, NFRC 200 and NFRC 500. Thermal performance of other wood species may vary. ENERGY STAR® values are updated to 2023 (Version 7) criteria.

(2) The values shown are based on Canada's updated ENERGY STAR® 2020 initiative.

Visit www.energystar.gov for Energy Star guidelines.
 Non Rectangular Unit thermal values will vary slightly.





Pella® Reserve™ Traditional Hung Window

Glazing Performance - Total Unit

| Glazing Thickness | Type of Glazing | NFRC Certified Product # | Glass (mm) | | Gap Fill | Performance Values ¹ | | | | Shaded Areas Meet ENERGY STAR® Performance Criteria in Zones Shown | | | | | | | |
|---|--------------------------------|--------------------------|------------|------|----------|---------------------------------|------|------|----|--|----|----|---|---------------------|------|----|--|
| | | | Ext. | Int. | | U-Factor | SHGC | VLT | CR | U. S. | | | | Canada ² | | | |
| | | | | | | | | | | Zone | | | | ER | Zone | | |
| | | | | | | | | | | N | NC | SC | S | | | CA | |
| Tinted Glazing | | | | | | | | | | | | | | | | | |
| 11/16" | Bronze Advanced Low-E IG | PEL-N-234-01225-00002 | 5 | 3 | argon | 0.29 | 0.25 | 0.34 | 57 | | | | | | | | |
| | with grilles-between-the-glass | PEL-N-234-01226-00002 | | | | 0.30 | 0.23 | 0.30 | 57 | | | | | S | | | |
| | with integral grilles | PEL-N-234-01227-00002 | | | | 0.30 | 0.23 | 0.30 | 57 | | | | | S | | | |
| 11/16" | Gray Advanced Low-E IG | PEL-N-234-01225-00003 | 5 | 3 | argon | 0.29 | 0.23 | 0.29 | 57 | | | | | S | | | |
| | with grilles-between-the-glass | PEL-N-234-01226-00003 | | | | 0.30 | 0.21 | 0.26 | 57 | | | | | S | | | |
| | with integral grilles | PEL-N-234-01227-00003 | | | | 0.30 | 0.21 | 0.26 | 57 | | | | | S | | | |
| 11/16" | Green Advanced Low-E IG | PEL-N-234-01225-00004 | 5 | 3 | argon | 0.29 | 0.28 | 0.46 | 57 | | | | | | | | |
| | with grilles-between-the-glass | PEL-N-234-01226-00004 | | | | 0.30 | 0.25 | 0.41 | 57 | | | | | | | | |
| | with integral grilles | PEL-N-234-01227-00004 | | | | 0.30 | 0.25 | 0.41 | 57 | | | | | | | | |
| Vent Dual-Pane High Altitude Glazing - Wood Exterior | | | | | | | | | | | | | | | | | |
| 11/16" | Advanced Low-E IG | PEL-N-234-01153-00001 | 2.5 | 2.5 | air | 0.31 | 0.28 | 0.53 | 56 | | | | | | | | |
| | with grilles-between-the-glass | PEL-N-234-01154-00001 | | | | 0.31 | 0.26 | 0.47 | 56 | | | | | | | | |
| | with integral grilles | PEL-N-234-01155-00001 | | | | 0.32 | 0.26 | 0.47 | 56 | | | | | | | | |
| 11/16" | Advanced Low-E IG | PEL-N-234-01157-00001 | 3 | 3 | air | 0.32 | 0.28 | 0.52 | 55 | | | | | | | | |
| | with grilles-between-the-glass | PEL-N-234-01158-00001 | | | | 0.32 | 0.26 | 0.47 | 55 | | | | | | | | |
| | with integral grilles | PEL-N-234-01159-00001 | | | | 0.33 | 0.26 | 0.47 | 55 | | | | | | | | |
| 11/16" | SunDefense™ Low-E IG | PEL-N-234-01201-00001 | 2.5 | 2.5 | air | 0.31 | 0.21 | 0.49 | 56 | | | | | S | | | |
| | with grilles-between-the-glass | PEL-N-234-01202-00001 | | | | 0.31 | 0.19 | 0.44 | 56 | | | | | S | | | |
| | with integral grilles | PEL-N-234-01203-00001 | | | | 0.32 | 0.19 | 0.44 | 56 | | | | | S | | | |
| 11/16" | SunDefense™ Low-E IG | PEL-N-234-01205-00001 | 3 | 3 | air | 0.31 | 0.21 | 0.49 | 55 | | | | | S | | | |
| | with grilles-between-the-glass | PEL-N-234-01206-00001 | | | | 0.31 | 0.19 | 0.43 | 55 | | | | | S | | | |
| | with integral grilles | PEL-N-234-01207-00001 | | | | 0.32 | 0.19 | 0.43 | 55 | | | | | S | | | |
| 11/16" | SunDefense+ Low-E IG | PEL-N-234-01809-00001 | 2.5 | 2.5 | air | 0.26 | 0.21 | 0.48 | 45 | | | SC | | S | | | |
| | with grilles-between-the-glass | PEL-N-234-01810-00001 | | | | 0.26 | 0.19 | 0.43 | 45 | | | SC | | S | | | |
| | with integral grilles | PEL-N-234-01811-00001 | | | | 0.27 | 0.19 | 0.43 | 45 | | | SC | | S | | | |
| 11/16" | SunDefense+ Low-E IG | PEL-N-234-01817-00001 | 3 | 3 | air | 0.27 | 0.21 | 0.47 | 43 | | | SC | | S | | | |
| | with grilles-between-the-glass | PEL-N-234-01818-00001 | | | | 0.27 | 0.19 | 0.42 | 43 | | | SC | | S | | | |
| | with integral grilles | PEL-N-234-01819-00001 | | | | 0.28 | 0.19 | 0.42 | 43 | | | SC | | S | | | |
| 11/16" | AdvancedComfort Low-E IG | PEL-N-234-01177-00001 | 2.5 | 2.5 | air | 0.27 | 0.28 | 0.52 | 44 | | | | | | | | |
| | with grilles-between-the-glass | PEL-N-234-01178-00001 | | | | 0.27 | 0.25 | 0.46 | 44 | | | | | | | | |
| | with integral grilles | PEL-N-234-01179-00001 | | | | 0.27 | 0.25 | 0.46 | 44 | | | | | | | | |
| 11/16" | AdvancedComfort Low-E IG | PEL-N-234-01181-00001 | 3 | 3 | air | 0.27 | 0.28 | 0.51 | 43 | | | | | | | | |
| | with grilles-between-the-glass | PEL-N-234-01182-00001 | | | | 0.27 | 0.25 | 0.46 | 43 | | | | | | | | |
| | with integral grilles | PEL-N-234-01183-00001 | | | | 0.28 | 0.25 | 0.46 | 43 | | | | | | | | |
| 11/16" | NaturalSun Low-E IG | PEL-N-234-01129-00001 | 2.5 | 2.5 | air | 0.32 | 0.53 | 0.60 | 55 | | | | | | | | |
| | with grilles-between-the-glass | PEL-N-234-01130-00001 | | | | 0.32 | 0.47 | 0.53 | 55 | | | | | | | | |
| | with integral grilles | PEL-N-234-01131-00001 | | | | 0.33 | 0.47 | 0.53 | 55 | | | | | | | | |
| 11/16" | NaturalSun Low-E IG | PEL-N-234-01133-00001 | 3 | 3 | air | 0.33 | 0.52 | 0.59 | 54 | | | | | | | | |
| | with grilles-between-the-glass | PEL-N-234-01134-00001 | | | | 0.33 | 0.46 | 0.53 | 54 | | | | | | | | |
| | with integral grilles | PEL-N-234-01135-00001 | | | | 0.33 | 0.46 | 0.53 | 54 | | | | | | | | |
| 11/16" | NaturalSun+ Low-E IG | PEL-N-234-01777-00001 | 2.5 | 2.5 | air | 0.27 | 0.48 | 0.59 | 44 | | | | | | | | |
| | with grilles-between-the-glass | PEL-N-234-01778-00001 | | | | 0.27 | 0.43 | 0.52 | 44 | | | | | | | | |
| | with integral grilles | PEL-N-234-01779-00001 | | | | 0.28 | 0.43 | 0.52 | 43 | | | | | | | | |
| 11/16" | NaturalSun+ Low-E IG | PEL-N-234-01785-00001 | 3 | 3 | air | 0.28 | 0.47 | 0.58 | 42 | | | | | | | | |
| | with grilles-between-the-glass | PEL-N-234-01786-00001 | | | | 0.28 | 0.42 | 0.52 | 42 | | | | | | | | |
| | with integral grilles | PEL-N-234-01787-00001 | | | | 0.28 | 0.42 | 0.52 | 42 | | | | | | | | |

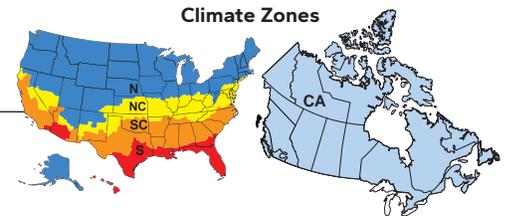
R-Value = 1/U-Factor
 SHGC = Solar Heat Gain Coefficient
 VLT % = Visible Light Transmission
 CR = Condensation Resistance
 ER = Canadian Energy Rating

(1) Glazing performance values are calculated for Pine using NFRC 100, NFRC 200 and NFRC 500. Thermal performance of other wood species may vary. ENERGY STAR® values are updated to 2023 (Version 7) criteria.

(2) The values shown are based on Canada's updated ENERGY STAR® 2020 initiative.

Visit www.energystar.gov for Energy Star guidelines.

Non Rectangular Unit thermal values will vary slightly.



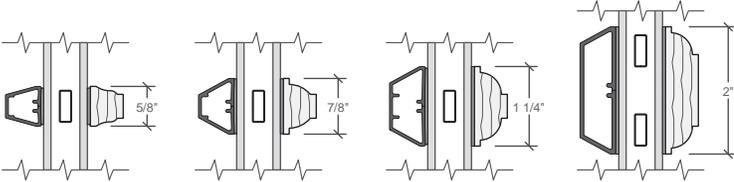


Pella® Reserve™ Traditional Hung Window

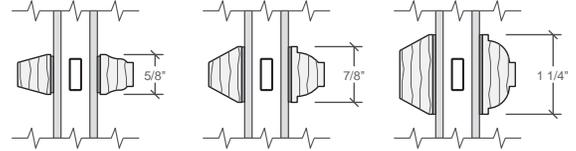
Grille Profiles

Traditional Style Collection - Integral Light Technology®

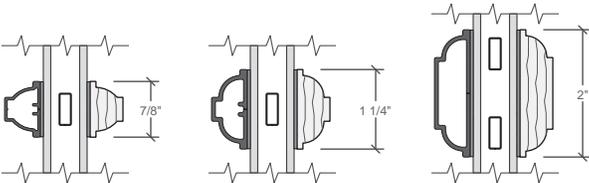
Putty Glaze and Ogee Grilles Clad Exterior - Wood Interior



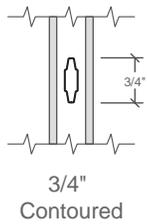
Putty Glaze and Ogee Grilles Wood Exterior - Wood Interior



Ogee Grilles Clad Exterior - Wood Interior



Grilles-Between-the-Glass



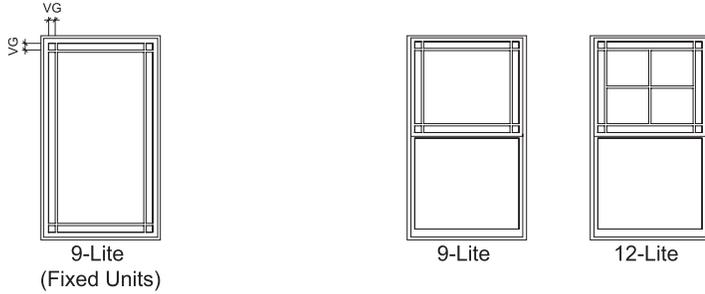
Interior wood ILT grilles available in Pine, Mahogany or Douglas Fir to match complete unit.
Exterior wood ILT grilles available in Pine or Mahogany to match complete unit.



Grille Patterns

Integral light technology® Grilles

Prairie Lite Patterns

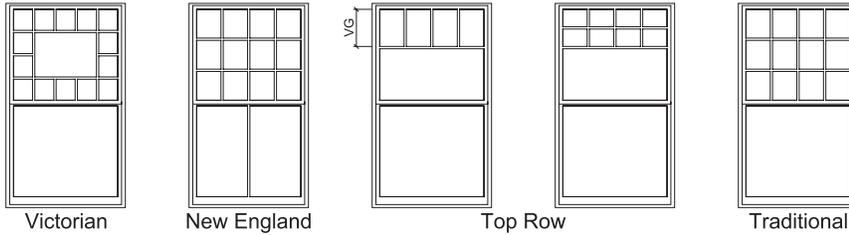


Standard corner lite dimension for Prairie patterns = 2-1/2" VG.

Available in transoms ≥ 1'3" height and width.

Available in all standard and special sizes.

Other Available Patterns

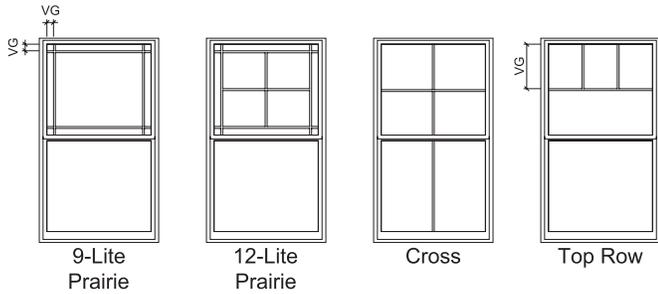


VG = Visible Glass

Lite dimensions noted can vary.

For size and pattern availability contact your local Pella sales representative.

Grilles-Between-the-Glass



Prairie

- Standard corner lite dimension for Prairie patterns = 2-1/2" VG.

- Available in transoms ≥ 1'3" height and width.

Cross

- Minimum DH frame height 35".

- Horizontal bar will be at 1/2" of the VG height of the top sash.

Top Row

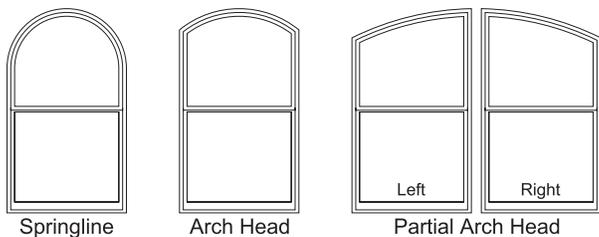
- Minimum DH frame height 35".

- Horizontal bar will be at 1/2" of the VG height of the top sash.

For traditional patterns, see size tables.

Custom shapes

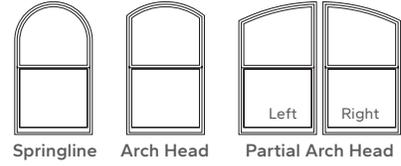
Pella Reserve single-hung windows are available in custom shapes shown below, and additional shapes per drawing. For specifications, size limitations, and details on these units, contact your local Pella sales representative.





Pella® Reserve™ Traditional Hung Window

Size Tables - Equal Sash



Pella Reserve single-hung windows are available in shapes shown above, and additional custom shapes per drawing. For specifications, size limitations, and details on these units, contact your local Pella sales representative.

Opening Dimensions

Clad Exterior Units:
Dimensions shown in standard size tables are rough opening dimensions.

Wood Exterior Units:
Use frame dimension plus dimensions below. This dimension includes the use of standard 1-1/8" wood subsill.

| Frame | Rough | | Masonry | |
|------------|--------|---------|----------|----------|
| | Width | Height | Width | Height |
| Brickmould | | | | |
| STD | + 3/4" | +1-7/8" | + 3-1/8" | + 3-1/8" |
| 3-1/2" | + 3/4" | +1-7/8" | + 6-3/8" | + 4-3/4" |

For clad and wood units with impact-resistant glass, see the product installation instructions or refer to local building code requirements.

Egress Notes:

Check all applicable local codes for emergency egress requirements.

E = Window meets minimum clear opening of 24" height, 20" width, and 5.7 ft².

E1 = Window meets minimum clear opening of 24" height, 20" width, and 5.0 ft².

See Design Data pages in this section for clear opening dimensions.

Clear opening (egress) information does not take into consideration the addition of a Rolscreen (or any other accessory) to the product. Consult your local building code to ensure products with Rolcreens meet egress requirements.

Fixed Transoms

| | | | | | | | |
|----------------|----------------|----------------|----------------|----------------|--------------------|--------------------|--------------------|
| (552) (533) | (654) (635) | (756) (737) | (857) (838) | (959) (940) | (1 060) (1 041) | (1 162) (1 143) | (1 238) (1 219) |
|----------------|----------------|----------------|----------------|----------------|--------------------|--------------------|--------------------|

| Opening | 1' 9 3/4" | 2' 1 3/4" | 2' 5 3/4" | 2' 9 3/4" | 3' 1 3/4" | 3' 5 3/4" | 3' 9 3/4" | 4' 0 3/4" |
|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| Frame | 1' 9" | 2' 1" | 2' 5" | 2' 9" | 3' 1" | 3' 5" | 3' 9" | 4' 0" |
| 1' 2 3/4" | 2114 | 2514 | 2914 | 3314 | 3714 | 4114 | 4514 | 4814 |
| 1' 5" | 2117 | 2517 | 2917 | 3317 | 3717 | 4117 | 4517 | 4817 |
| 1' 7 1/4" | 2125 | 2525 | 2925 | 3325 | 3725 | 4125 | 4525 | 4825 |

Vent Units

| | | | | | | | | | |
|----------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| (908) (889) | (1 060) (1 041) | (1 213) (1 194) | (1 365) (1 346) | (1 467) (1 448) | (1 518) (1 499) | (1 670) (1 651) | (1 822) (1 803) | (1 975) (1 956) | (2 133) (2 134) |
| 2' 11 3/4" | 3' 5 3/4" | 3' 11 3/4" | 4' 5 3/4" | 4' 9 3/4" | 4' 11 3/4" | 5' 5 3/4" | 5' 11 3/4" | 6' 5 3/4" | 7' 0 3/4" |
| 2' 11" | 3' 5" | 3' 11" | 4' 5" | 4' 9" | 4' 11" | 5' 5" | 5' 11" | 6' 5" | 7' 0" |
| 2135 | 2141 | 2147 | 2153 | 2157 | 2159 | 2165 | 2171 | 2177 | 2184 |
| 2535 | 2541 | 2547 | 2553 | 2557 | 2559 | 2565 | 2571 | 2577 | 2584 |
| 2935 | 2941 | 2947 | 2953 | 2957 | 2959 | 2965 | 2971 | 2977 | 2984 |
| 3335 | 3341 | 3347 | 3353 | 3357 | 3359 | 3365 | 3371 | 3377 | 3384 |
| 3735 | 3741 | 3747 | 3753 | 3757 | 3759 | 3765 | 3771 | 3777 | 3784 |
| 4135 | 4141 | 4147 | 4153 | 4157 | 4159 | 4165 | 4171 | 4177 | 4184 |
| 4535 | 4541 | 4547 | 4553 | 4557 | 4559 | 4565 | 4571 | 4577 | 4584 |
| 4835 | 4841 | 4847 | 4853 | 4857 | 4859 | 4865 | 4871 | 4877 | 4884 |

Not to scale.

Traditional grille patterns shown. Refer to Grille Types section for additional patterns and profiles.



Pella® Reserve™ Traditional Hung Window

Size Tables - Fixed

Fixed Units

| | (1 060) (1 041) | (1 213) (1 194) | (1 365) (1 346) | (1 518) (1 499) |
|--------------------|---|---|---|---|
| Opening | 3' 5 ³ / ₄ " | 3' 11 ³ / ₄ " | 4' 5 ³ / ₄ " | 4' 11 ³ / ₄ " |
| Frame | 3' 5" | 3' 11" | 4' 5" | 4' 11" |
| (908) (889) |  4135 |  4735 |  5335 |  5935 |
| (1 060) (1 041) |  4141 |  4741 |  5341 |  5941 |
| (1 213) (1 194) |  4147 |  4747 |  5347 |  5947 |
| (1 365) (1 346) |  4153 |  4753 |  5353 |  5953 |
| (1 467) (1 448) |  4157 |  4757 |  5357 |  5957 |
| (1 518) (1 499) |  4159 |  4759 |  5359 |  5959 |
| (1 670) (1 651) |  4165 |  4765 |  5365 |  5965 |
| (1 822) (1 803) |  4171 |  4771 |  5371 |  5971 |

Opening Dimensions

Clad Exterior Units:

Dimensions shown in standard size tables are rough opening dimensions.

Wood Exterior Units:

Use frame dimension plus dimensions below. This dimension includes the use of standard 1-1/8" wood subsill.

| Frame | Rough | | Masonry | |
|--------|--------|---------|----------|----------|
| | Width | Height | Width | Height |
| STD | + 3/4" | +1-7/8" | + 3-1/8" | + 3-1/8" |
| 3-1/2" | + 3/4" | +1-7/8" | + 6-3/8" | + 4-3/4" |

For clad and wood units with impact-resistant glass, see the product installation instructions or refer to local building code requirements.

Not to scale.

Traditional grille patterns shown. Refer to Grille Types section for additional patterns and profiles.

Grille patterns will align with companion hung window with equal sash split.

5-lite high grille patterns may be ordered in 5'5" fixed units to match cottage sash vent units.

Grilles are equally-divided on fixed units with odd-number lites high.



Pella® Reserve™ Traditional Hung Window

Size Tables - Cottage Sash

VENT UNITS

| | (552) (533) | (654) (635) | (756) (737) | (857) (838) | (959) (940) | (1 060) (1 041) | (1 162) (1 143) | (1 238) (1 219) |
|--------------------|----------------|----------------|----------------|----------------|----------------|--------------------|--------------------|--------------------|
| Opening | 1' 9 3/4" | 2' 1 3/4" | 2' 5 3/4" | 2' 9 3/4" | 3' 1 3/4" | 3' 5 3/4" | 3' 9 3/4" | 4' 0 3/4" |
| Frame | 1' 9" | 2' 1" | 2' 5" | 2' 9" | 3' 1" | 3' 5" | 3' 9" | 4' 0" |
| (1 060) (1 041) | | | | | | | | |
| (1 213) (1 194) | | | | | | | | |
| (1 365) (1 346) | | | | | | | | |
| (1 467) (1 448) | | | | | | | | |
| (1 518) (1 499) | | | | | | | | |
| (1 670) (1 651) | | | | | | | | |
| (1 822) (1 803) | | | | | | | | |
| (1 822) (1 803) | | | | | | | | |

Egress Notes:
 Check all applicable local codes for emergency egress requirements.
 E = Window meets minimum clear opening of 24" height, 20" width, and 5.7 ft².
 E1 = Window meets minimum clear opening of 24" height, 20" width, and 5.0 ft².
 See Design Data pages in this section for clear opening dimensions.
 Clear opening (egress) information does not take into consideration the addition of a Rolscreen (or any other accessory) to the product. Consult your local building code to ensure products with Rolscreens meet egress requirements.

Opening Dimensions

Clad Exterior Units:
 Dimensions shown in standard size tables are rough opening dimensions.
Wood Exterior Units:
 Use frame dimension plus dimensions below. This dimension includes the use of standard 1-1/8" wood subsill.

| Frame | Rough | | Masonry | |
|--------|--------|---------|----------|----------|
| | Width | Height | Width | Height |
| STD | + 3/4" | +1-7/8" | + 3-1/8" | + 3-1/8" |
| 3-1/2" | + 3/4" | +1-7/8" | + 6-3/8" | + 4-3/4" |

For clad and wood units with impact-resistant glass, see the product installation instructions or refer to local building code requirements.

Not to scale.
 Traditional grille patterns shown. Refer to Grille Types section for additional patterns and profiles.
 Cottage units have unequal sash split. Sash glass ratio is 40% upper sash to 60% Lower sash.
 Vent variable units have unequal sash split. Sash glass ratio is determined by checkrail heights. See unit sections for dimension requirements.



Pella® Reserve™ Traditional Hung Window

Size Tables - Replacement Equal Sash Sizes

Transoms

| | (616) (597) | (718) (699) | (762) (749) | (819) (800) | (921) (902) | (1 022) (1 003) | (1 073) (1 054) |
|----------------|----------------|----------------|----------------|----------------|----------------|--------------------|--------------------|
| Opening | 2' 0 1/4" | 2' 4 1/4" | 2' 6 1/4" | 2' 8 1/4" | 3' 0 1/4" | 3' 4 1/4" | 3' 6 1/4" |
| Frame | 1' 11 1/2" | 2' 3 1/2" | 2' 5 1/2" | 2' 7 1/2" | 2' 11 1/2" | 3' 3 1/2" | 3' 5 1/2" |
| (375) (356) | | | | | | | |
| (451) (432) | | | | | | | |
| (654) (635) | | | | | | | |
| | 23.5 x 14 | 27.5 x 14 | 29.5 x 14 | 31.5 x 14 | 35.5 x 14 | 39.5 x 14 | 41.5 x 14 |
| | 23.5 x 17 | 27.5 x 17 | 29.5 x 17 | 31.5 x 17 | 35.5 x 17 | 39.5 x 17 | 41.5 x 17 |
| | 23.5 x 25 | 27.5 x 25 | 29.5 x 25 | 31.5 x 25 | 35.5 x 25 | 39.5 x 25 | 41.5 x 25 |

Vent Units

| | | | | | | | |
|--------------------|-------------|-------------|-------------|-------------|----------------|---------------|---------------|
| (921) (902) | | | | | | | |
| (972) (953) | | | | | | | |
| (1 073) (1 054) | | | | | | | |
| (1 175) (1 156) | | | | | | | |
| (1 226) (1 206) | | | | | | | |
| (1 327) (1 308) | | | | | | | |
| (1 378) (1 359) | | | | | | | |
| (1 473) (1 461) | | | | | | | |
| | 23.5 x 35.5 | 27.5 x 35.5 | 29.5 x 35.5 | 31.5 x 35.5 | 35.5 x 35.5 | 39.5 x 35.5 | 41.5 x 35.5 |
| | 23.5 x 37.5 | 27.5 x 37.5 | 29.5 x 37.5 | 31.5 x 37.5 | 35.5 x 37.5 | 39.5 x 37.5 | 41.5 x 37.5 |
| | 23.5 x 41.5 | 27.5 x 41.5 | 29.5 x 41.5 | 31.5 x 41.5 | 35.5 x 41.5 | 39.5 x 41.5 | 41.5 x 41.5 |
| | 23.5 x 45.5 | 27.5 x 45.5 | 29.5 x 45.5 | 31.5 x 45.5 | 35.5 x 45.5 | 39.5 x 45.5 | 41.5 x 45.5 |
| | 23.5 x 47.5 | 27.5 x 47.5 | 29.5 x 47.5 | 31.5 x 47.5 | 35.5 x 47.5 | 39.5 x 47.5 | 41.5 x 47.5 |
| | 23.5 x 51.5 | 27.5 x 51.5 | 29.5 x 51.5 | 31.5 x 51.5 | 35.5 x 51.5 | 39.5 x 51.5 | 41.5 x 51.5 |
| | 23.5 x 53.5 | 27.5 x 53.5 | 29.5 x 53.5 | 31.5 x 53.5 | 35.5 x 53.5 | 39.5 x 53.5 | 41.5 x 53.5 |
| | 23.5 x 57.5 | 27.5 x 57.5 | 29.5 x 57.5 | 31.5 x 57.5 | 35.5 x 57.5 E1 | 39.5 x 57.5 E | 41.5 x 57.5 E |

Egress Notes:
 Check all applicable local codes for emergency egress requirements.
 E = Window meets minimum clear opening of 24" height, 20" width, and 5.7 ft².
 E1 = Window meets minimum clear opening of 24" height, 20" width, and 5.0 ft².
 See Design Data pages in this section for clear opening dimensions.
 Clear opening (egress) information does not take into consideration the addition of a Rolscreen (or any other accessory) to the product. Consult your local building code to ensure products with Rolscreens meet egress requirements.

Not to scale.

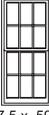
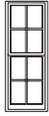
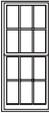
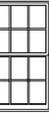
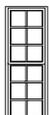
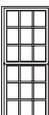
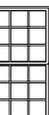
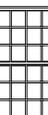
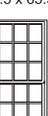
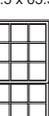
Traditional grille patterns shown. Refer to Grille Types section for additional patterns and profiles.



Pella® Reserve™ Traditional Hung Window

Size Tables - Replacement Sizes

Vent Units

| | (616) (597) | (718) (699) | (762) (749) | (819) (800) | (921) (902) | (1 022) (1 003) | (1 073) (1 054) |
|--------------------|---|--|--|--|--|---|---|
| Opening | 2' 0 1/4" | 2' 4 1/4" | 2' 6" | 2' 8 1/4" | 3' 0 1/4" | 3' 4 1/4" | 3' 6 1/4" |
| Frame | 1' 11 1/2" | 2' 3 1/2" | 2' 5 1/2" | 2' 7 1/2" | 2' 11 1/2" | 3' 3 1/2" | 3' 5 1/2" |
| (1 530) (1 511) |  23.5 x 59.5 |  27.5 x 59.5 |  29.5 x 59.5 |  31.5 x 59.5 |  35.5 x 59.5 E ₁ |  39.5 x 59.5 E |  41.5 x 59.5 E |
| (1 581) (1 562) |  23.5 x 61.5 |  27.5 x 61.5 |  29.5 x 61.5 |  31.5 x 61.5 E ₁ |  35.5 x 61.5 E |  39.5 x 61.5 E |  41.5 x 61.5 E |
| (1 683) (1 664) |  23.5 x 65.5 |  27.5 x 65.5 |  29.5 x 65.5 |  31.5 x 65.5 E ₁ |  35.5 x 65.5 E |  39.5 x 65.5 E |  41.5 x 65.5 E |
| (1 835) (1 816) |  23.5 x 71.5 |  27.5 x 71.5 E ₁ |  29.5 x 71.5 E ₁ |  31.5 x 71.5 E |  35.5 x 71.5 E |  39.5 x 71.5 E |  41.5 x 71.5 E |

Egress Notes:

Check all applicable local codes for emergency egress requirements.

E = Window meets minimum clear opening of 24" height, 20" width, and 5.7 ft².

E₁ = Window meets minimum clear opening of 24" height, 20" width, and 5.0 ft².

See Design Data pages in this section for clear opening dimensions.

Clear opening (egress) information does not take into consideration the addition of a Rolscreen (or any other accessory) to the product. Consult your local building code to ensure products with Rolcreens meet egress requirements.

Not to scale.

Traditional grille patterns shown. Refer to Grille Types section for additional patterns and profiles.



Pella® Reserve™ Traditional Hung Window

Size Tables - Replacement Cottage Sash Sizes

Cottage Vent Units

| | (616) (597) | (718) (699) | (762) (749) | (819) (800) | (921) (902) | (1 022) (1 003) | (1 073) (1 054) |
|----------------------|----------------|----------------|----------------|----------------|----------------|--------------------|--------------------|
| Opening | 2' 0 1/4" | 2' 4 1/4" | 2' 6 1/4" | 2' 8 1/4" | 3' 0 1/4" | 3' 4 1/4" | 3' 6 1/4" |
| Frame | 1' 11 1/2" | 2' 3 1/2" | 2' 5 1/2" | 2' 7 1/2" | 2' 11 1/2" | 3' 3 1/2" | 3' 5 1/2" |
| (1 073) (1 054) | 23.5 x 41.5 | 27.5 x 41.5 | 29.5 x 41.5 | 31.5 x 41.5 | 35.5 x 41.5 | 39.5 x 41.5 | 41.5 x 41.5 |
| (1 175) (1 156) | 23.5 x 45.5 | 27.5 x 45.5 | 29.5 x 45.5 | 31.5 x 45.5 | 35.5 x 45.5 | 39.5 x 45.5 | 41.5 x 45.5 |
| (1 226) (1 206) | 23.5 x 47.5 | 27.5 x 47.5 | 29.5 x 47.5 | 31.5 x 47.5 | 35.5 x 47.5 | 39.5 x 47.5 | 41.5 x 47.5 |
| (1 327) (1 308) | 23.5 x 51.5 | 27.5 x 51.5 | 29.5 x 51.5 | 31.5 x 51.5 | 35.5 x 51.5 | 39.5 x 51.5 | 41.5 x 51.5 |
| (1 378) (1 359) | 23.5 x 53.5 | 27.5 x 53.5 | 29.5 x 53.5 | 31.5 x 53.5 | 35.5 x 53.5 | 39.5 x 53.5 | 41.5 x 53.5 |
| (1 473) (1 461) | 23.5 x 57.5 | 27.5 x 57.5 | 29.5 x 57.5 | 31.5 x 57.5 | 35.5 x 57.5 | 39.5 x 57.5 | 41.5 x 57.5 |
| (1 530) (1 511) | 23.5 x 59.5 | 27.5 x 59.5 | 29.5 x 59.5 | 31.5 x 59.5 | 35.5 x 59.5 | 39.5 x 59.5 | 41.5 x 59.5 |
| (1 581) (1 561.5) | 23.5 x 61.5 | 27.5 x 61.5 | 29.5 x 61.5 | 31.5 x 61.5 | 35.5 x 61.5 | 39.5 x 61.5 | 41.5 x 61.5 |
| (1 683) (1 664) | 23.5 x 65.5 | 27.5 x 65.5 | 29.5 x 65.5 | 31.5 x 65.5 | 35.5 x 65.5 | 39.5 x 65.5 | 41.5 x 65.5 |
| (1 835) (1 816) | 23.5 x 71.5 | 27.5 x 71.5 | 29.5 x 71.5 | 31.5 x 71.5 | 35.5 x 71.5 | 39.5 x 71.5 | 41.5 x 71.5 |

Egress Notes:

Check all applicable local codes for emergency egress requirements.

- E = Window meets minimum clear opening of 24" height, 20" width, and 5.7 ft².
- E1 = Window meets minimum clear opening of 24" height, 20" width, and 5.0 ft².

See Design Data pages in this section for clear opening dimensions.

Clear opening (egress) information does not take into consideration the addition of a Rolscreen (or any other accessory) to the product. Consult your local building code to ensure products with Rolscreens meet egress requirements.

Not to scale.

Traditional grille patterns shown. Refer to Grille Types section for additional patterns and profiles.



Pella® Reserve™ Traditional Hung Window

Size Tables - Replacement Fixed Sizes

| Fixed Units | (1 060) | (1 213) | (1 365) | (1 518) | (1 060) | (1 213) | (1 365) | (1 518) | |
|--------------------|-------------------------------------|-------------------------------------|------------------------------------|-------------------------------------|------------------------------------|-------------------------------------|------------------------------------|-------------------------------------|-------------------------------------|
| | (1 041) | (1 194) | (1 346) | (1 499) | (1 041) | (1 194) | (1 346) | (1 499) | |
| Opening | 3' 5 ³ / ₄ " | 3' 11 ³ / ₄ " | 4' 5 ³ / ₄ " | 4' 11 ³ / ₄ " | 3' 5 ³ / ₄ " | 3' 11 ³ / ₄ " | 4' 5 ³ / ₄ " | 4' 11 ³ / ₄ " | |
| Frame | 3' 5" | 3' 11" | 4' 5" | 4' 11" | 3' 5" | 3' 11" | 4' 5" | 4' 11" | |
| (921) (902) | 3' 0 ¹ / ₄ " | 2' 11 ¹ / ₂ " | 41 x 35.5 | 47 x 35.5 | 53 x 35.5 | 59 x 35.5 | (1 530) (1 511) | 5' 0 ¹ / ₄ " | 4' 11 ¹ / ₂ " |
| (972) (953) | 3' 2 ¹ / ₄ " | 3' 1 ¹ / ₂ " | 41 x 37.5 | 47 x 37.5 | 53 x 37.5 | 59 x 37.5 | (1 581) (1 562) | 5' 2 ¹ / ₄ " | 5' 1 ¹ / ₂ " |
| (1 073) (1 054) | 3' 6 ¹ / ₄ " | 3' 5 ¹ / ₂ " | 41 x 41.5 | 47 x 41.5 | 53 x 41.5 | 59 x 41.5 | (1 683) (1 664) | 5' 6 ¹ / ₄ " | 5' 5 ¹ / ₂ " |
| (1 175) (1 156) | 3' 10 ¹ / ₄ " | 3' 9 ¹ / ₂ " | 41 x 45.5 | 47 x 45.5 | 53 x 45.5 | 59 x 45.5 | (1 835) (1 816) | 6' 0 ¹ / ₄ " | 5' 11 ¹ / ₂ " |
| (1 226) (1 206) | 4' 0 ¹ / ₄ " | 3' 11 ¹ / ₂ " | 41 x 47.5 | 47 x 47.5 | 53 x 47.5 | 59 x 47.5 | | | |
| (1 327) (1 308) | 4' 4 ¹ / ₄ " | 4' 3 ¹ / ₂ " | 41 x 51.5 | 47 x 51.5 | 53 x 51.5 | 59 x 51.5 | | | |
| (1 378) (1 359) | 4' 6 ¹ / ₄ " | 4' 5 ¹ / ₂ " | 41 x 53.5 | 47 x 53.5 | 53 x 53.5 | 59 x 53.5 | | | |
| (1 473) (1 461) | 4' 10 ¹ / ₄ " | 4' 9 ¹ / ₂ " | 41 x 57.5 | 47 x 57.5 | 53 x 57.5 | 59 x 57.5 | | | |

Not to scale.

Traditional grille patterns shown. Refer to Grille Types section for additional patterns and profiles.



Pella® Reserve™ Traditional Hung Window

Special Sizes and Dimensions

Special Size Frame Dimensions*

| Sash configuration | Vent-Equal | Cottage | Fixed |
|--|-----------------------------|-----------------------------|-----------------------------|
| Sash Glass Ratio Top % : Bottom % | 50 : 50 | 40 : 60 | NA |
| Shortest Unit Frame Size | 24-3/8" (619) | 40-1/4" (1022) | 17" (432) |
| Tallest Unit Frame Size | 96" (2 438) | 81" (2 057) | 71" (1803) |
| Unit Frame Width Range | 14" to 48" (356 to 1219) | 14" to 48" (356 to 1219) | 17" to 59" (432 to 1499) |

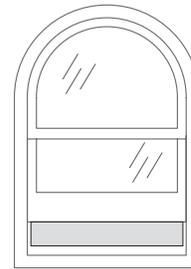
Opening Dimensions

Clad Exterior Units:
Dimensions shown in standard size tables are rough opening dimensions.

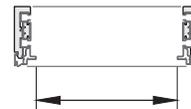
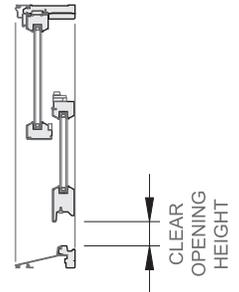
Wood Exterior Units:
Use frame dimension plus dimensions below. This dimension includes the use of standard 1-1/8" wood subsill.

| Frame | Rough | | Masonry | |
|--------|--------|---------|----------|----------|
| | Width | Height | Width | Height |
| STD | + 3/4" | +1-7/8" | + 3-1/8" | + 3-1/8" |
| 3-1/2" | + 3/4" | +1-7/8" | + 6-3/8" | + 4-3/4" |

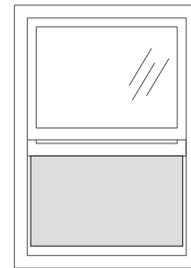
For clad and wood units with impact-resistant glass, see the product installation instructions or refer to local building code requirements.



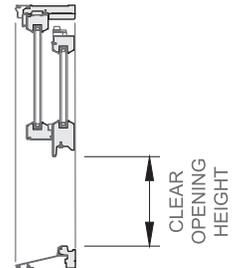
Shaded portion shows vent area.



CLEAR OPENING WIDTH



Shaded portion shows vent area.



Equal Sash Rectangular Only

| | Vent Units | Fixed and Transom Units |
|---------------------------------|---|---|
| | Visible Glass | Width = Frame - 5.647" Height = (Frame - 8.681") ÷ 2 |
| Actual Glass | Width = Frame - 4.375" Height = (Frame - 5.983") ÷ 2 | Width = Frame - 4.375" Height = Frame - 4.375" |
| Clear Opening* | COW = Frame Width - 3.4375" COH = (Frame Height ÷ 2) - 4.4375" | — — |
| Vent Area Ft² | (COW x COH) ÷ 144 | — |

Traditional grille patterns shown. Refer to Grille Types section for additional patterns and profiles.

* Some units with custom glazing may have limited travel. Integrated Rolscreen® is only available on sizes greater than or equal to 34" tall and 21" wide and less than or equal to 84" tall and 48" wide.

See your local Pella sales representative for specific size information.



Pella® Reserve™ Traditional Hung Window

Design Data

| Vent Equal Sash for Single- and Double-Hung | | | | | | | | | |
|---|--------|------------------------|-----------------|---------------|-------------------|-------------------------------|----------|--|------|
| Unit | Egress | Clear Opening (Inches) | | Vent Area Ft² | Visible Glass Ft² | Standard Glass Thickness (mm) | | Performance Class & Grade ¹ | |
| | | Width (Inches) | Height (Inches) | | | Annealed | Tempered | Clad | Wood |
| 2135 | | 17-5/16 | 13-1/16 | 1.6 | 2.8 | 2.5 | 3 | CW50 | CW45 |
| 2141 | | 17-5/16 | 16-1/16 | 1.9 | 3.4 | 2.5 | 3 | CW50 | CW45 |
| 2147 | | 17-5/16 | 19-1/16 | 2.3 | 4.1 | 2.5 | 3 | CW50 | CW45 |
| 2153 | | 17-5/16 | 22-1/16 | 2.7 | 4.7 | 2.5 | 3 | CW50 | CW45 |
| 2157 | | 17-5/16 | 24-1/16 | 2.9 | 5.2 | 2.5 | 3 | CW50 | CW45 |
| 2159 | | 17-5/16 | 25-1/16 | 3.0 | 5.4 | 2.5 | 3 | CW50 | CW45 |
| 2165 | | 17-5/16 | 28-1/16 | 3.4 | 6.0 | 2.5 | 3 | CW50 | CW45 |
| 2171 | | 17-5/16 | 31-1/16 | 3.7 | 6.6 | 2.5 | 3 | CW50 | CW45 |
| 2177 | | 17-5/16 | 34-1/16 | 4.1 | 7.3 | 2.5 | 3 | CW50 | CW45 |
| 2184 | | 17-5/16 | 37-9/16 | 4.5 | 8.0 | 2.5 | 3 | CW40 | CW40 |
| 2535 | | 21-5/16 | 13-1/16 | 1.9 | 3.5 | 2.5 | 3 | CW50 | CW45 |
| 2541 | | 21-5/16 | 16-1/16 | 2.4 | 4.3 | 2.5 | 3 | CW50 | CW45 |
| 2547 | | 21-5/16 | 19-1/16 | 2.8 | 5.1 | 2.5 | 3 | CW50 | CW45 |
| 2553 | | 21-5/16 | 22-1/16 | 3.3 | 6.0 | 2.5 | 3 | CW50 | CW45 |
| 2557 | | 21-5/16 | 24-1/16 | 3.6 | 6.5 | 2.5 | 3 | CW50 | CW45 |
| 2559 | | 21-5/16 | 25-1/16 | 3.7 | 6.8 | 2.5 | 3 | CW50 | CW45 |
| 2565 | | 21-5/16 | 28-1/16 | 4.2 | 7.6 | 2.5 | 3 | CW50 | CW45 |
| 2571 | | 21-5/16 | 31-1/16 | 4.6 | 8.4 | 2.5 | 3 | CW50 | CW45 |
| 2577 | E1 | 21-5/16 | 34-1/16 | 5.0 | 9.2 | 2.5 | 3 | CW50 | CW45 |
| 2584 | E1 | 21-5/16 | 37-9/16 | 5.6 | 10.1 | 2.5 | 3 | CW40 | CW40 |
| 2935 | | 25-5/16 | 13-1/16 | 2.3 | 4.3 | 2.5 | 3 | CW50 | CW45 |
| 2941 | | 25-5/16 | 16-1/16 | 2.8 | 5.2 | 2.5 | 3 | CW50 | CW45 |
| 2947 | | 25-5/16 | 19-1/16 | 3.4 | 6.2 | 2.5 | 3 | CW50 | CW45 |
| 2953 | | 25-5/16 | 22-1/16 | 3.9 | 7.2 | 2.5 | 3 | CW50 | CW45 |
| 2957 | | 25-5/16 | 24-1/16 | 4.2 | 7.8 | 2.5 | 3 | CW50 | CW45 |
| 2959 | | 25-5/16 | 25-1/16 | 4.4 | 8.2 | 2.5 | 3 | CW50 | CW45 |
| 2965 | | 25-5/16 | 28-1/16 | 4.9 | 9.1 | 2.5 | 3 | CW50 | CW45 |
| 2971 | E1 | 25-5/16 | 31-1/16 | 5.5 | 10.1 | 2.5 | 3 | CW50 | CW45 |
| 2977 | E | 25-5/16 | 34-1/16 | 6.0 | 11.1 | 2.5 | 3 | CW50 | CW45 |
| 2984 | E | 25-5/16 | 37-9/16 | 6.6 | 12.2 | 2.5 | 3 | CW40 | CW40 |
| 3335 | | 29-5/16 | 13-1/16 | 2.7 | 5.0 | 2.5 | 3 | CW50 | CW45 |
| 3341 | | 29-5/16 | 16-1/16 | 3.3 | 6.1 | 2.5 | 3 | CW50 | CW45 |
| 3347 | | 29-5/16 | 19-1/16 | 3.9 | 7.3 | 2.5 | 3 | CW50 | CW45 |
| 3353 | | 29-5/16 | 22-1/16 | 4.5 | 8.4 | 2.5 | 3 | CW50 | CW45 |
| 3357 | | 29-5/16 | 24-1/16 | 4.9 | 9.2 | 2.5 | 3 | CW50 | CW45 |
| 3359 | E1 | 29-5/16 | 25-1/16 | 5.1 | 9.6 | 2.5 | 3 | CW50 | CW45 |
| 3365 | E | 29-5/16 | 28-1/16 | 5.7 | 10.7 | 2.5 | 3 | CW50 | CW45 |
| 3371 | E | 29-5/16 | 31-1/16 | 6.3 | 11.8 | 2.5 | 3 | CW50 | CW45 |
| 3377 | E | 29-5/16 | 34-1/16 | 6.9 | 13.0 | 2.5 | 3 | CW50 | CW45 |
| 3384 | E | 29-5/16 | 37-9/16 | 7.7 | 14.3 | 2.5 | 3 | CW40 | CW40 |

Continued on next page

Egress Notes:

Check all applicable local codes for emergency egress requirements.

- E = Window meets minimum clear opening of 24" height, 20" width, and 5.7 ft².
- E1 = Window meets minimum clear opening of 24" height, 20" width, and 5.0 ft².

(1) Maximum design pressure when glazed with appropriate glass thickness.

To convert area to square meters (m²), multiply square feet by 0.0929.



Pella® Reserve™ Traditional Hung Window

Design Data

| Vent Equal Sash for Single- and Double-Hung | | | | | | | | | |
|---|--------|------------------------|-----------------|---------------------------|-------------------------------|-------------------------------|----------|--|------|
| Unit | Egress | Clear Opening (Inches) | | Vent Area Ft ² | Visible Glass Ft ² | Standard Glass Thickness (mm) | | Performance Class & Grade ⁽¹⁾ | |
| | | Width (Inches) | Height (Inches) | | | Annealed | Tempered | Clad | Wood |
| 3735 | | 33-5/16 | 13-1/16 | 3.0 | 5.7 | 2.5 | 3 | CW50 | CW45 |
| 3741 | | 33-5/16 | 16-1/16 | 3.7 | 7.0 | 2.5 | 3 | CW50 | CW45 |
| 3747 | | 33-5/16 | 19-1/16 | 4.4 | 8.3 | 2.5 | 3 | CW50 | CW45 |
| 3753 | | 33-5/16 | 22-1/16 | 5.1 | 9.6 | 2.5 | 3 | CW50 | CW45 |
| 3757 | E1 | 33-5/16 | 24-1/16 | 5.6 | 10.5 | 2.5 | 3 | CW50 | CW45 |
| 3759 | E | 33-5/16 | 25-1/16 | 5.8 | 11.0 | 2.5 | 3 | CW50 | CW45 |
| 3765 | E | 33-5/16 | 28-1/16 | 6.5 | 12.3 | 2.5 | 3 | CW50 | CW45 |
| 3771 | E | 33-5/16 | 31-1/16 | 7.2 | 13.6 | 2.5 | 3 | CW50 | CW45 |
| 3777 | E | 33-5/16 | 34-1/16 | 7.9 | 14.9 | 2.5 | 3 | CW50 | CW45 |
| 3784 | E | 33-5/16 | 37-9/16 | 8.7 | 16.4 | 2.5 | 3 | CW40 | CW40 |
| 4135 | | 37-5/16 | 13-1/16 | 3.4 | 6.5 | 2.5 | 3 | CW50 | CW45 |
| 4141 | | 37-5/16 | 16-1/16 | 4.2 | 7.9 | 2.5 | 3 | CW50 | CW45 |
| 4147 | | 37-5/16 | 19-1/16 | 4.9 | 9.4 | 2.5 | 3 | CW50 | CW45 |
| 4153 | | 37-5/16 | 22-1/16 | 5.7 | 10.9 | 2.5 | 3 | CW50 | CW45 |
| 4157 | E | 37-5/16 | 24-1/16 | 6.2 | 11.9 | 2.5 | 3 | CW50 | CW45 |
| 4159 | E | 37-5/16 | 25-1/16 | 6.5 | 12.4 | 2.5 | 3 | CW50 | CW45 |
| 4165 | E | 37-5/16 | 28-1/16 | 7.3 | 13.8 | 2.5 | 3 | CW50 | CW45 |
| 4171 | E | 37-5/16 | 31-1/16 | 8.1 | 15.3 | 2.5 | 3 | CW50 | CW45 |
| 4177 | E | 37-5/16 | 34-1/16 | 8.8 | 16.8 | 2.5 | 3 | CW45 | CW45 |
| 4184 | E | 37-5/16 | 37-9/16 | 9.7 | 18.5 | 2.5 | 3 | CW40 | CW40 |
| 4535 | | 41-5/16 | 13-1/16 | 3.7 | 7.2 | 2.5 | 3 | CW50 | CW45 |
| 4541 | | 41-5/16 | 16-1/16 | 4.6 | 8.8 | 2.5 | 3 | CW50 | CW45 |
| 4547 | | 41-5/16 | 19-1/16 | 5.5 | 10.5 | 2.5 | 3 | CW50 | CW45 |
| 4553 | | 41-5/16 | 22-1/16 | 6.3 | 12.1 | 2.5 | 3 | CW50 | CW45 |
| 4557 | E | 41-5/16 | 24-1/16 | 6.9 | 13.2 | 2.5 | 3 | CW50 | CW45 |
| 4559 | E | 41-5/16 | 25-1/16 | 7.2 | 13.7 | 2.5 | 3 | CW50 | CW45 |
| 4565 | E | 41-5/16 | 28-1/16 | 8.1 | 15.4 | 2.5 | 3 | CW50 | CW45 |
| 4571 | E | 41-5/16 | 31-1/16 | 8.9 | 17.0 | 2.5 | 3 | CW45 | CW45 |
| 4577 | E | 41-5/16 | 34-1/16 | 9.8 | 18.7 | 2.5 | 3 | CW45 | CW45 |
| 4584 | E | 41-5/16 | 37-9/16 | 10.8 | 20.6 | 3 | 3 | CW40 | CW40 |
| 4835 | | 44-5/16 | 13-1/16 | 4.0 | 7.7 | 2.5 | 3 | CW50 | CW45 |
| 4841 | | 44-5/16 | 16-1/16 | 4.9 | 9.5 | 2.5 | 3 | CW50 | CW45 |
| 4847 | | 44-5/16 | 19-1/16 | 5.9 | 11.3 | 2.5 | 3 | CW50 | CW45 |
| 4853 | | 44-5/16 | 22-1/16 | 6.8 | 13.0 | 2.5 | 3 | CW50 | CW45 |
| 4857 | E | 44-5/16 | 24-1/16 | 7.4 | 14.2 | 2.5 | 3 | CW50 | CW45 |
| 4859 | E | 44-5/16 | 25-1/16 | 7.7 | 14.8 | 2.5 | 3 | CW50 | CW45 |
| 4865 | E | 44-5/16 | 28-1/16 | 8.6 | 16.6 | 2.5 | 3 | CW45 | CW45 |
| 4871 | E | 44-5/16 | 31-1/16 | 9.6 | 18.3 | 2.5 | 3 | CW45 | CW45 |
| 4877 | E | 44-5/16 | 34-1/16 | 10.5 | 20.1 | 3 | 3 | CW45 | CW45 |
| 4884 | E | 44-5/16 | 37-9/16 | 11.6 | 22.2 | 3 | 3 | CW40 | CW40 |

Egress Notes:

Check all applicable local codes for emergency egress requirements.

E = Window meets minimum clear opening of 24" height, 20" width, and 5.7 ft².

E1 = Window meets minimum clear opening of 24" height, 20" width, and 5.0 ft².

(1) Maximum performance when glazed with the appropriate glass thickness.

To convert area to square meters (m²), multiply square feet by 0.0929.



Pella® Reserve™ Traditional Hung Window

Design Data

| Fixed | | | | |
|-------|-------------------------------|-------------------------------|----------|--|
| Unit | Visible Glass Ft ² | Standard Glass Thickness (mm) | | Performance Class & Grade ¹ |
| | | Annealed | Tempered | |
| 4135 | 7.2 | 2.5 | 3 | CW50 |
| 4141 | 8.6 | 2.5 | 3 | CW50 |
| 4147 | 10.1 | 3 | 3 | CW50 |
| 4153 | 11.6 | 3 | 3 | CW50 |
| 4157 | 12.5 | 3 | 3 | CW50 |
| 4165 | 14.5 | 3 | 3 | CW50 |
| 4171 | 16.0 | 3 | 3 | CW45/CW50 |
| 4735 | 8.4 | 2.5 | 3 | CW50 |
| 4741 | 10.1 | 3 | 3 | CW50 |
| 4747 | 11.8 | 3 | 3 | CW50 |
| 4753 | 13.5 | 3 | 3 | CW50 |
| 4757 | 14.7 | 3 | 3 | CW50 |
| 4759 | 15.3 | 3 | 3 | CW50 |
| 4765 | 17.0 | 3 | 3 | CW45/CW50 |
| 4771 | 18.7 | 4 | 4 | CW50 |
| 5335 | 9.6 | 2.5 | 3 | CW45/CW50 |
| 5341 | 11.6 | 3 | 3 | CW50 |
| 5347 | 13.5 | 3 | 3 | CW50 |
| 5353 | 15.5 | 3 | 4 | CW45/CW50 |
| 5357 | 16.8 | 3 | 4 | CW45/CW50 |
| 5359 | 17.5 | 3 | 4 | CW40/CW50 |
| 5365 | 19.4 | 4 | 4 | CW50 |
| 5371 | 21.4 | 4 | 4 | CW50 |
| 5935 | 10.8 | 3 | 3 | CW50 |
| 5941 | 13.0 | 3 | 3 | CW50 |
| 5953 | 17.5 | 3 | 4 | CW40/CW50 |
| 5957 | 19.0 | 4 | 4 | CW50 |
| 5959 | 19.7 | 4 | 4 | CW50 |
| 5965 | 21.9 | 4 | 4 | CW50 |
| 5971 | 24.1 | 4 | 4 | CW45/CW50 |

| Transoms | | | | |
|----------|-------------------------------|-------------------------------|----------|--|
| Unit | Visible Glass Ft ² | Standard Glass Thickness (mm) | | Performance Class & Grade ¹ |
| | | Annealed | Tempered | |
| 2114 | 0.9 | 2.5 | 3 | CW50 |
| 2514 | 1.1 | 2.5 | 3 | CW50 |
| 2914 | 1.3 | 2.5 | 3 | CW50 |
| 3314 | 1.6 | 2.5 | 3 | CW50 |
| 3714 | 1.8 | 2.5 | 3 | CW50 |
| 4114 | 2.0 | 2.5 | 3 | CW50 |
| 4514 | 2.2 | 2.5 | 3 | CW50 |
| 4814 | 2.4 | 2.5 | 3 | CW50 |
| 2117 | 1.2 | 2.5 | 3 | CW50 |
| 2517 | 1.5 | 2.5 | 3 | CW50 |
| 2917 | 1.8 | 2.5 | 3 | CW50 |
| 3317 | 2.1 | 2.5 | 3 | CW50 |
| 3717 | 2.4 | 2.5 | 3 | CW50 |
| 4117 | 2.8 | 2.5 | 3 | CW50 |
| 4517 | 3.1 | 2.5 | 3 | CW50 |
| 4817 | 3.3 | 2.5 | 3 | CW50 |
| 2125 | 2.0 | 2.5 | 3 | CW50 |
| 2525 | 2.6 | 2.5 | 3 | CW50 |
| 2925 | 3.1 | 2.5 | 3 | CW50 |
| 3325 | 3.6 | 2.5 | 3 | CW50 |
| 3725 | 4.2 | 2.5 | 3 | CW50 |
| 4125 | 4.7 | 2.5 | 3 | CW50 |
| 4525 | 5.2 | 2.5 | 3 | CW50 |
| 4825 | 5.6 | 2.5 | 3 | CW50 |

(1) Maximum design pressure when glazed with the appropriate glass thickness. Second number, where shown, requires tempered glass.



Pella® Reserve™ Traditional Hung Window

Design Data

| Cottage Sash for Single- and Double-Hung | | | | | | | | | |
|--|--------|------------------------|----------|---------------------------|-------------------------------|-------------------------------|----------|--|------|
| Unit | Egress | Clear Opening (Inches) | | Vent Area Ft ² | Visible Glass Ft ² | Standard Glass Thickness (mm) | | Performance Class & Grade ¹ | |
| | | Width | Height | | | Annealed | Tempered | Clad | Wood |
| VG2141 | | 17-5/16 | 12-11/16 | 1.5 | 3.4 | 2.5 | 3 | CW50 | CW45 |
| VG2147 | | 17-5/16 | 15-1/16 | 1.8 | 4.1 | 2.5 | 3 | CW50 | CW45 |
| VG2153 | | 17-5/16 | 17-7/16 | 2.1 | 4.7 | 2.5 | 3 | CW50 | CW45 |
| VG2157 | | 17-5/16 | 19-1/16 | 2.3 | 5.2 | 2.5 | 3 | CW50 | CW45 |
| VG2159 | | 17-5/16 | 19-7/8 | 2.4 | 5.4 | 2.5 | 3 | CW50 | CW45 |
| VG2165 | | 17-5/16 | 22-1/4 | 2.7 | 6.0 | 2.5 | 3 | CW50 | CW45 |
| VG2171 | | 17-5/16 | 24-11/16 | 3.0 | 6.6 | 2.5 | 3 | CW30 | CW30 |
| VG2541 | | 21-5/16 | 12-11/16 | 1.9 | 4.3 | 2.5 | 3 | CW50 | CW45 |
| VG2547 | | 21-5/16 | 15-1/16 | 2.2 | 5.1 | 2.5 | 3 | CW50 | CW45 |
| VG2553 | | 21-5/16 | 17-7/16 | 2.6 | 6.0 | 2.5 | 3 | CW50 | CW45 |
| VG2557 | | 21-5/16 | 19-1/16 | 2.8 | 6.5 | 2.5 | 3 | CW50 | CW45 |
| VG2559 | | 21-5/16 | 19-7/8 | 2.9 | 6.8 | 2.5 | 3 | CW50 | CW45 |
| VG2565 | | 21-5/16 | 22-1/4 | 3.3 | 7.6 | 2.5 | 3 | CW50 | CW45 |
| VG2571 | | 21-5/16 | 24-11/16 | 3.7 | 8.4 | 2.5 | 3 | CW30 | CW30 |
| VG2941 | | 25-5/16 | 12-11/16 | 2.2 | 5.2 | 2.5 | 3 | CW50 | CW45 |
| VG2947 | | 25-5/16 | 15-1/16 | 2.7 | 6.2 | 2.5 | 3 | CW50 | CW45 |
| VG2953 | | 25-5/16 | 17-7/16 | 3.1 | 7.2 | 2.5 | 3 | CW50 | CW45 |
| VG2957 | | 25-5/16 | 19-1/16 | 3.4 | 7.8 | 2.5 | 3 | CW50 | CW45 |
| VG2959 | | 25-5/16 | 19-7/8 | 3.5 | 8.2 | 2.5 | 3 | CW50 | CW45 |
| VG2965 | | 25-5/16 | 22-1/4 | 3.9 | 9.1 | 2.5 | 3 | CW50 | CW45 |
| VG2971 | | 25-5/16 | 24-11/16 | 4.3 | 10.1 | 2.5 | 3 | CW30 | CW30 |
| VG3341 | | 29-5/16 | 12-11/16 | 2.6 | 6.1 | 2.5 | 3 | CW50 | CW45 |
| VG3347 | | 29-5/16 | 15-1/16 | 3.1 | 7.3 | 2.5 | 3 | CW50 | CW45 |
| VG3353 | | 29-5/16 | 17-7/16 | 3.6 | 8.4 | 2.5 | 3 | CW50 | CW45 |
| VG3357 | | 29-5/16 | 19-1/16 | 3.9 | 9.2 | 2.5 | 3 | CW50 | CW45 |
| VG3359 | | 29-5/16 | 19-7/8 | 4.1 | 9.6 | 2.5 | 3 | CW50 | CW45 |
| VG3365 | | 29-5/16 | 22-1/4 | 4.5 | 10.7 | 2.5 | 3 | CW50 | CW45 |
| VG3371 | E1 | 29-5/16 | 24-11/16 | 5.0 | 11.8 | 2.5 | 3 | CW30 | CW30 |

Continued on next page

Egress Notes:

Check all applicable local codes for emergency egress requirements.

E1 = Window meets minimum clear opening of 24" height, 20" width, and 5.0 ft².

(1) Maximum performance when glazed with the appropriate glass thickness.

To convert area to square meters (m²), multiply square feet by 0.0929.



Pella® Reserve™ Traditional Hung Window

Design Data

Cottage Sash for Single- and Double-Hung

| Unit | Egress | Clear Opening (Inches) | | Vent Area Ft ² | Visible Glass Ft ² | Standard Glass Thickness (mm) | | Performance Class & Grade ¹ | |
|--------|--------|------------------------|----------|---------------------------|-------------------------------|-------------------------------|----------|--|------|
| | | Width | Height | | | Annealed | Tempered | Clad | Wood |
| VG3741 | | 33-5/16 | 12-11/16 | 2.9 | 7.0 | 2.5 | 3 | CW50 | CW45 |
| VG3747 | | 33-5/16 | 15-1/16 | 3.5 | 8.3 | 2.5 | 3 | CW50 | CW45 |
| VG3753 | | 33-5/16 | 17-7/16 | 4.0 | 9.6 | 2.5 | 3 | CW50 | CW45 |
| VG3757 | | 33-5/16 | 19-1/16 | 4.4 | 10.5 | 2.5 | 3 | CW50 | CW45 |
| VG3759 | | 33-5/16 | 19-7/8 | 4.6 | 11.0 | 2.5 | 3 | CW50 | CW45 |
| VG3765 | | 33-5/16 | 22-1/4 | 5.2 | 12.3 | 2.5 | 3 | CW50 | CW45 |
| VG3771 | E | 33-5/16 | 24-11/16 | 5.7 | 13.6 | 2.5 | 3 | CW30 | CW30 |
| VG4141 | | 37-5/16 | 12-11/16 | 3.3 | 7.9 | 2.5 | 3 | CW50 | CW45 |
| VG4147 | | 37-5/16 | 15-1/16 | 3.9 | 9.4 | 2.5 | 3 | CW50 | CW45 |
| VG4153 | | 37-5/16 | 17-7/16 | 4.5 | 10.9 | 2.5 | 3 | CW50 | CW45 |
| VG4157 | | 37-5/16 | 19-1/16 | 4.9 | 11.9 | 2.5 | 3 | CW50 | CW45 |
| VG4159 | | 37-5/16 | 19-7/8 | 5.2 | 12.4 | 2.5 | 3 | CW50 | CW45 |
| VG4165 | | 37-5/16 | 22-1/4 | 5.8 | 13.8 | 2.5 | 3 | CW45 | CW45 |
| VG4171 | E | 37-5/16 | 24-11/16 | 6.4 | 15.3 | 2.5 | 3 | CW30 | CW30 |
| VG4541 | | 41-5/16 | 12-11/16 | 3.6 | 8.8 | 2.5 | 3 | CW50 | CW45 |
| VG4547 | | 41-5/16 | 15-1/16 | 4.3 | 10.5 | 2.5 | 3 | CW50 | CW45 |
| VG4553 | | 41-5/16 | 17-7/16 | 5.0 | 12.1 | 2.5 | 3 | CW50 | CW45 |
| VG4557 | | 41-5/16 | 19-1/16 | 5.5 | 13.2 | 2.5 | 3 | CW45 | CW45 |
| VG4559 | | 41-5/16 | 19-7/8 | 5.7 | 13.8 | 2.5 | 3 | CW45 | CW45 |
| VG4565 | | 41-5/16 | 22-1/4 | 6.4 | 15.4 | 2.5 | 3 | CW45 | CW45 |
| VG4571 | E | 41-5/16 | 24-11/16 | 7.1 | 17.0 | 3 | 3 | CW30 | CW30 |
| VG4841 | | 44-5/16 | 12-11/16 | 3.9 | 9.5 | 2.5 | 3 | CW50 | CW45 |
| VG4847 | | 44-5/16 | 15-1/16 | 4.6 | 11.3 | 2.5 | 3 | CW50 | CW45 |
| VG4853 | | 44-5/16 | 17-7/16 | 5.4 | 13.0 | 2.5 | 3 | CW45 | CW45 |
| VG4857 | | 44-5/16 | 19-1/16 | 5.9 | 14.2 | 2.5 | 3 | CW45 | CW45 |
| VG4859 | | 44-5/16 | 19-7/8 | 6.1 | 14.8 | 2.5 | 3 | CW45 | CW45 |
| VG4865 | | 44-5/16 | 22-1/4 | 6.9 | 16.6 | 3 | 3 | CW45 | CW45 |
| VG4871 | E | 44-5/16 | 24-11/16 | 7.6 | 18.3 | 3 | 3 | CW30 | CW30 |

Egress Notes:

Check all applicable local codes for emergency egress requirements.

E = Window meets minimum clear opening of 24" height, 20" width, and 5.7 ft².

(1) Maximum performance when glazed with the appropriate glass thickness.

To convert area to square meters (m²), multiply square feet by 0.0929.



Pella® Reserve™ Traditional Hung Window

Design Data - Replacement Sizes

| Replacement Equal Sash for Single- and Double-Hung | | | | | | | | | |
|--|--------|----------------|-----------------|---------------------------|-------------------------------|-------------------------------|----------|--|------|
| Unit | Egress | Clear Opening | | Vent Area Ft ² | Visible Glass Ft ² | Standard Glass Thickness (mm) | | Performance Class & Grade ¹ | |
| | | Width (Inches) | Height (Inches) | | | Annealed | Tempered | Clad | Wood |
| 23.5 x 35.5 | | 19-13/16 | 13-5/16 | 1.8 | 3.3 | 2.5 | 3 | CW50 | CW45 |
| 23.5 x 37.5 | | 19-13/16 | 14-5/16 | 2.0 | 3.6 | 2.5 | 3 | CW50 | CW45 |
| 23.5 x 41.5 | | 19-13/16 | 16-5/16 | 2.2 | 4.1 | 2.5 | 3 | CW50 | CW45 |
| 23.5 x 45.5 | | 19-13/16 | 18-5/16 | 2.5 | 4.6 | 2.5 | 3 | CW50 | CW45 |
| 23.5 x 47.5 | | 19-13/16 | 19-5/16 | 2.7 | 4.8 | 2.5 | 3 | CW50 | CW45 |
| 23.5 x 51.5 | | 19-13/16 | 21-5/16 | 2.9 | 5.3 | 2.5 | 3 | CW50 | CW45 |
| 23.5 x 53.5 | | 19-13/16 | 22-5/16 | 3.1 | 5.6 | 2.5 | 3 | CW50 | CW45 |
| 23.5 x 57.5 | | 19-13/16 | 24-5/16 | 3.3 | 6.1 | 2.5 | 3 | CW50 | CW45 |
| 23.5 x 59.5 | | 19-13/16 | 25-5/16 | 3.5 | 6.3 | 2.5 | 3 | CW50 | CW45 |
| 23.5 x 61.5 | | 19-13/16 | 26-5/16 | 3.6 | 6.5 | 2.5 | 3 | CW50 | CW45 |
| 23.5 x 65.5 | | 19-13/16 | 28-5/16 | 3.9 | 7.0 | 2.5 | 3 | CW50 | CW45 |
| 23.5 x 71.5 | | 19-13/16 | 31-5/16 | 4.3 | 7.8 | 2.5 | 3 | CW50 | CW45 |
| 27.5 x 35.5 | | 23-13/16 | 13-5/16 | 2.2 | 4.1 | 2.5 | 3 | CW50 | CW45 |
| 27.5 x 37.5 | | 23-13/16 | 14-5/16 | 2.4 | 4.4 | 2.5 | 3 | CW50 | CW45 |
| 27.5 x 41.5 | | 23-13/16 | 16-5/16 | 2.7 | 5.0 | 2.5 | 3 | CW50 | CW45 |
| 27.5 x 45.5 | | 23-13/16 | 18-5/16 | 3.0 | 5.6 | 2.5 | 3 | CW50 | CW45 |
| 27.5 x 47.5 | | 23-13/16 | 19-5/16 | 3.2 | 5.9 | 2.5 | 3 | CW50 | CW45 |
| 27.5 x 51.5 | | 23-13/16 | 21-5/16 | 3.5 | 6.5 | 2.5 | 3 | CW50 | CW45 |
| 27.5 x 53.5 | | 23-13/16 | 22-5/16 | 3.7 | 6.8 | 2.5 | 3 | CW50 | CW45 |
| 27.5 x 57.5 | | 23-13/16 | 24-5/16 | 4.0 | 7.4 | 2.5 | 3 | CW50 | CW45 |
| 27.5 x 59.5 | | 23-13/16 | 25-5/16 | 4.2 | 7.7 | 2.5 | 3 | CW50 | CW45 |
| 27.5 x 61.5 | | 23-13/16 | 26-5/16 | 4.4 | 8.0 | 2.5 | 3 | CW50 | CW45 |
| 27.5 x 65.5 | | 23-13/16 | 28-5/16 | 4.7 | 8.6 | 2.5 | 3 | CW50 | CW45 |
| 27.5 x 71.5 | E1 | 23-13/16 | 31-5/16 | 5.2 | 9.5 | 2.5 | 3 | CW50 | CW45 |
| 29.5 x 35.5 | | 25-13/16 | 13-5/16 | 2.4 | 4.4 | 2.5 | 3 | CW50 | CW45 |
| 29.5 x 37.5 | | 25-13/16 | 14-5/16 | 2.6 | 4.8 | 2.5 | 3 | CW50 | CW45 |
| 29.5 x 41.5 | | 25-13/16 | 16-5/16 | 2.9 | 5.4 | 2.5 | 3 | CW50 | CW45 |
| 29.5 x 45.5 | | 25-13/16 | 18-5/16 | 3.3 | 6.1 | 2.5 | 3 | CW50 | CW45 |
| 29.5 x 47.5 | | 25-13/16 | 19-5/16 | 3.5 | 6.4 | 2.5 | 3 | CW50 | CW45 |
| 29.5 x 51.5 | | 25-13/16 | 21-5/16 | 3.8 | 7.1 | 2.5 | 3 | CW50 | CW45 |
| 29.5 x 53.5 | | 25-13/16 | 22-5/16 | 4.0 | 7.4 | 2.5 | 3 | CW50 | CW45 |
| 29.5 x 57.5 | | 25-13/16 | 24-5/16 | 4.4 | 8.1 | 2.5 | 3 | CW50 | CW45 |
| 29.5 x 59.5 | | 25-13/16 | 25-5/16 | 4.5 | 8.4 | 2.5 | 3 | CW50 | CW45 |
| 29.5 x 61.5 | | 25-13/16 | 26-5/16 | 4.7 | 8.7 | 2.5 | 3 | CW50 | CW45 |
| 29.5 x 65.5 | E1 | 25-13/16 | 28-5/16 | 5.1 | 9.4 | 2.5 | 3 | CW50 | CW45 |
| 29.5 x 71.5 | E1 | 25-13/16 | 31-5/16 | 5.6 | 10.4 | 2.5 | 3 | CW50 | CW45 |

Continued on next page

Egress Notes:

Check all applicable local codes for emergency egress requirements.

E1 = Window meets minimum clear opening of 24" height, 20" width, and 5.0 ft².

(1) Maximum performance when glazed with the appropriate glass thickness.

To convert area to square meters (m²), multiply square feet by 0.0929.



Pella® Reserve™ Traditional Hung Window

Design Data - Replacement Sizes

| Replacement Equal Sash for Single- and Double-Hung | | | | | | | | | |
|--|--------|----------------|-----------------|---------------------------|-------------------------------|-------------------------------|----------|--|------|
| Unit | Egress | Clear Opening | | Vent Area Ft ² | Visible Glass Ft ² | Standard Glass Thickness (mm) | | Performance Class & Grade ¹ | |
| | | Width (Inches) | Height (Inches) | | | Annealed | Tempered | Clad | Wood |
| 31.5x35.5 | | 27-13/16 | 13-5/16 | 2.6 | 4.8 | 2.5 | 3 | CW50 | CW45 |
| 31.5x37.5 | | 27-13/16 | 14-5/16 | 2.8 | 5.2 | 2.5 | 3 | CW50 | CW45 |
| 31.5x41.5 | | 27-13/16 | 16-5/16 | 3.2 | 5.9 | 2.5 | 3 | CW50 | CW45 |
| 31.5x45.5 | | 27-13/16 | 18-5/16 | 3.5 | 6.6 | 2.5 | 3 | CW50 | CW45 |
| 31.5x47.5 | | 27-13/16 | 19-5/16 | 3.7 | 7.0 | 2.5 | 3 | CW50 | CW45 |
| 31.5x51.5 | | 27-13/16 | 21-5/16 | 4.1 | 7.7 | 2.5 | 3 | CW50 | CW45 |
| 31.5x53.5 | | 27-13/16 | 22-5/16 | 4.3 | 8.0 | 2.5 | 3 | CW50 | CW45 |
| 31.5x57.5 | | 27-13/16 | 24-5/16 | 4.7 | 8.8 | 2.5 | 3 | CW50 | CW45 |
| 31.5x59.5 | | 27-13/16 | 25-5/16 | 4.9 | 9.1 | 2.5 | 3 | CW50 | CW45 |
| 31.5x61.5 | E1 | 27-13/16 | 26-5/16 | 5.1 | 9.5 | 2.5 | 3 | CW50 | CW45 |
| 31.5x65.5 | E1 | 27-13/16 | 28-5/16 | 5.5 | 10.2 | 2.5 | 3 | CW50 | CW45 |
| 31.5x71.5 | E | 27-13/16 | 31-5/16 | 6.0 | 11.3 | 2.5 | 3 | CW50 | CW45 |
| 35.5x35.5 | | 31-13/16 | 13-5/16 | 2.9 | 5.6 | 2.5 | 3 | CW50 | CW45 |
| 35.5x37.5 | | 31-13/16 | 14-5/16 | 3.2 | 6.0 | 2.5 | 3 | CW50 | CW45 |
| 35.5x41.5 | | 31-13/16 | 16-5/16 | 3.6 | 6.8 | 2.5 | 3 | CW50 | CW45 |
| 35.5x45.5 | | 31-13/16 | 18-5/16 | 4.0 | 7.6 | 2.5 | 3 | CW50 | CW45 |
| 35.5x47.5 | | 31-13/16 | 19-5/16 | 4.3 | 8.0 | 2.5 | 3 | CW50 | CW45 |
| 35.5x51.5 | | 31-13/16 | 21-5/16 | 4.7 | 8.9 | 2.5 | 3 | CW50 | CW45 |
| 35.5x53.5 | | 31-13/16 | 22-5/16 | 4.9 | 9.3 | 2.5 | 3 | CW50 | CW45 |
| 35.5x57.5 | E1 | 31-13/16 | 24-5/16 | 5.4 | 10.1 | 2.5 | 3 | CW50 | CW45 |
| 35.5x59.5 | E1 | 31-13/16 | 25-5/16 | 5.6 | 10.5 | 2.5 | 3 | CW50 | CW45 |
| 35.5x61.5 | E | 31-13/16 | 26-5/16 | 5.8 | 10.9 | 2.5 | 3 | CW50 | CW45 |
| 35.5x65.5 | E | 31-13/16 | 28-5/16 | 6.3 | 11.8 | 2.5 | 3 | CW50 | CW45 |
| 35.5x71.5 | E | 31-13/16 | 31-5/16 | 6.9 | 13.0 | 2.5 | 3 | CW50 | CW45 |
| 39.5x35.5 | | 35-13/16 | 13-5/16 | 3.3 | 6.3 | 2.5 | 3 | CW50 | CW45 |
| 39.5x37.5 | | 35-13/16 | 14-5/16 | 3.6 | 6.8 | 2.5 | 3 | CW50 | CW45 |
| 39.5x41.5 | | 35-13/16 | 16-5/16 | 4.1 | 7.7 | 2.5 | 3 | CW50 | CW45 |
| 39.5x45.5 | | 35-13/16 | 18-5/16 | 4.6 | 8.7 | 2.5 | 3 | CW50 | CW45 |
| 39.5x47.5 | | 35-13/16 | 19-5/16 | 4.8 | 9.1 | 2.5 | 3 | CW50 | CW45 |
| 39.5x51.5 | | 35-13/16 | 21-5/16 | 5.3 | 10.1 | 2.5 | 3 | CW50 | CW45 |
| 39.5x53.5 | | 35-13/16 | 22-5/16 | 5.5 | 10.5 | 2.5 | 3 | CW50 | CW45 |
| 39.5x57.5 | E | 35-13/16 | 24-5/16 | 6.0 | 11.5 | 2.5 | 3 | CW50 | CW45 |
| 39.5x59.5 | E | 35-13/16 | 25-5/16 | 6.3 | 11.9 | 2.5 | 3 | CW50 | CW45 |
| 39.5x61.5 | E | 35-13/16 | 26-5/16 | 6.5 | 12.4 | 2.5 | 3 | CW50 | CW45 |
| 39.5x65.5 | E | 35-13/16 | 28-5/16 | 7.0 | 13.4 | 2.5 | 3 | CW50 | CW45 |
| 39.5x71.5 | E | 35-13/16 | 31-5/16 | 7.8 | 14.8 | 2.5 | 3 | CW45 | CW45 |
| 41.5x35.5 | | 37-13/16 | 13-5/16 | 3.5 | 6.7 | 2.5 | 3 | CW50 | CW45 |
| 41.5x37.5 | | 37-13/16 | 14-5/16 | 3.8 | 7.2 | 2.5 | 3 | CW50 | CW45 |
| 41.5x41.5 | | 37-13/16 | 16-5/16 | 4.3 | 8.2 | 2.5 | 3 | CW50 | CW45 |
| 41.5x45.5 | | 37-13/16 | 18-5/16 | 4.8 | 9.2 | 2.5 | 3 | CW50 | CW45 |
| 41.5x47.5 | | 37-13/16 | 19-5/16 | 5.1 | 9.7 | 2.5 | 3 | CW50 | CW45 |
| 41.5x51.5 | | 37-13/16 | 21-5/16 | 5.6 | 10.7 | 2.5 | 3 | CW50 | CW45 |
| 41.5x53.5 | | 37-13/16 | 22-5/16 | 5.9 | 11.2 | 2.5 | 3 | CW50 | CW45 |
| 41.5x57.5 | E | 37-13/16 | 24-5/16 | 6.4 | 12.2 | 2.5 | 3 | CW50 | CW45 |
| 41.5x59.5 | E | 37-13/16 | 25-5/16 | 6.6 | 12.7 | 2.5 | 3 | CW50 | CW45 |
| 41.5x61.5 | E | 37-13/16 | 26-5/16 | 6.9 | 13.1 | 2.5 | 3 | CW50 | CW45 |
| 41.5x65.5 | E | 37-13/16 | 28-5/16 | 7.4 | 14.1 | 2.5 | 3 | CW45 | CW45 |
| 41.5x71.5 | E | 37-13/16 | 31-5/16 | 8.2 | 15.6 | 2.5 | 3 | CW45 | CW45 |

Egress Notes:
 Check all applicable local codes for emergency egress requirements.
 E = Window meets minimum clear opening of 24" height, 20" width, and 5.7 ft².
 E1 = Window meets minimum clear opening of 24" height, 20" width, and 5.0 ft².

(1) Maximum performance when glazed with the appropriate glass thickness.

To convert area to square meters (m²), multiply square feet by 0.0929.



Pella® Reserve™ Traditional Hung Window

Design Data - Replacement Sizes

| Replacement Fixed | | | | |
|-------------------|-------------------------------|-------------------------------|----------|--|
| Unit | Visible Glass Ft ² | Standard Glass Thickness (mm) | | Performance Class & Grade ⁽¹⁾ |
| | | Annealed | Tempered | |
| 41x35.5 | 7.3 | 2.5 | 3 | CW50 |
| 41x37.5 | 7.8 | 2.5 | 3 | CW50 |
| 41x41.5 | 8.8 | 2.5 | 3 | CW50 |
| 41x45.5 | 9.7 | 2.5 | 3 | CW45/CW50 |
| 41x47.5 | 10.2 | 3.0 | 3 | CW50 |
| 41x51.5 | 11.2 | 3.0 | 3 | CW50 |
| 41x53.5 | 11.7 | 3.0 | 3 | CW50 |
| 41x57.5 | 12.7 | 3.0 | 3 | CW50 |
| 41x59.5 | 13.2 | 3.0 | 3 | CW50 |
| 41x61.5 | 13.6 | 3.0 | 3 | CW50 |
| 41x65.5 | 14.6 | 3.0 | 3 | CW50 |
| 41x71.5 | 16.1 | 3.0 | 3 | CW45/CW50 |
| 47x35.5 | 8.5 | 2.5 | 3 | CW50 |
| 47x37.5 | 9.1 | 2.5 | 3 | CW50 |
| 47x41.5 | 10.2 | 3.0 | 3 | CW50 |
| 47x45.5 | 11.4 | 3.0 | 3 | CW50 |
| 47x47.5 | 12.0 | 3.0 | 3 | CW50 |
| 47x51.5 | 13.1 | 3.0 | 3 | CW50 |
| 47x53.5 | 13.7 | 3.0 | 3 | CW50 |
| 47x57.5 | 14.8 | 3.0 | 3 | CW50 |
| 47x59.5 | 15.4 | 3.0 | 3 | CW45/CW50 |
| 47x61.5 | 16.0 | 3.0 | 3 | CW45/CW50 |
| 47x65.5 | 17.1 | 3.0 | 3 | CW45/CW50 |
| 47x71.5 | 18.8 | 4.0 | 4 | CW50 |
| 53x35.5 | 9.8 | 2.5 | 3 | CW45/CW50 |
| 53x37.5 | 10.4 | 3.0 | 3 | CW50 |
| 53x41.5 | 11.7 | 3.0 | 3 | CW50 |
| 53x45.5 | 13.0 | 3.0 | 3 | CW50 |
| 53x47.5 | 13.7 | 3.0 | 3 | CW50 |
| 53x51.5 | 15.0 | 3.0 | 4 | CW50 |
| 53x53.5 | 15.7 | 3.0 | 4 | CW45/CW50 |
| 53x57.5 | 17.0 | 3.0 | 4 | CW45/CW50 |
| 53x59.5 | 17.6 | 4.0 | 4 | CW50 |
| 53x61.5 | 18.3 | 4.0 | 4 | CW50 |
| 53x65.5 | 19.6 | 4.0 | 4 | CW50 |
| 53x71.5 | 21.6 | 4.0 | 4 | CW50 |
| 59x35.5 | 11.0 | 3.0 | 3 | CW50 |
| 59x37.5 | 11.7 | 3.0 | 3 | CW50 |
| 59x41.5 | 13.2 | 3.0 | 3 | CW50 |
| 59x45.5 | 14.7 | 3.0 | 3 | CW50 |
| 59x47.5 | 15.4 | 3.0 | 3 | CW45/CW50 |
| 59x51.5 | 16.9 | 3.0 | 4 | CW45/CW50 |
| 59x53.5 | 17.7 | 4.0 | 4 | CW50 |
| 59x57.5 | 19.1 | 4.0 | 4 | CW50 |
| 59x59.5 | 19.9 | 4.0 | 4 | CW50 |
| 59x61.5 | 20.6 | 4.0 | 4 | CW50 |
| 59x65.5 | 22.1 | 4.0 | 4 | CW50 |
| 59x71.5 | 24.3 | 4.0 | 4 | CW45/CW50 |

| Replacement Transoms | | | | |
|----------------------|-------------------------------|-------------------------------|----------|--|
| Unit | Visible Glass Ft ² | Standard Glass Thickness (mm) | | Performance Class & Grade ⁽¹⁾ |
| | | Annealed | Tempered | |
| 23.5x14 | 1.0 | 2.5 | 3 | CW50 |
| 23.5x17 | 1.4 | 2.5 | 3 | CW50 |
| 23.5x25 | 2.4 | 2.5 | 3 | CW50 |
| 27.5x14 | 1.2 | 2.5 | 3 | CW50 |
| 27.5x17 | 1.7 | 2.5 | 3 | CW50 |
| 27.5x25 | 2.9 | 2.5 | 3 | CW50 |
| 29.5x14 | 1.4 | 2.5 | 3 | CW50 |
| 29.5x17 | 1.9 | 2.5 | 3 | CW50 |
| 29.5x25 | 3.2 | 2.5 | 3 | CW50 |
| 31.5x14 | 1.5 | 2.5 | 3 | CW50 |
| 31.5x17 | 2.0 | 2.5 | 3 | CW50 |
| 31.5x25 | 3.4 | 2.5 | 3 | CW50 |
| 35.5x14 | 1.7 | 2.5 | 3 | CW50 |
| 35.5x17 | 2.3 | 2.5 | 3 | CW50 |
| 35.5x25 | 4.0 | 2.5 | 3 | CW50 |
| 39.5x14 | 1.9 | 2.5 | 3 | CW50 |
| 39.5x17 | 2.6 | 2.5 | 3 | CW50 |
| 39.5x25 | 4.5 | 2.5 | 3 | CW50 |
| 41.5x14 | 2.0 | 2.5 | 3 | CW50 |
| 41.5x17 | 2.8 | 2.5 | 3 | CW50 |
| 41.5x25 | 4.8 | 2.5 | 3 | CW50 |

(1) Maximum performance when glazed with the appropriate glass thickness. Second number, where shown, requires tempered glass.



Pella® Reserve™ Traditional Hung Window

Design Data

Replacement Cottage Sash for Single- and Double-Hung

| Unit | Egress | Clear Opening | | Vent Area Ft ² | Visible Glass Ft ² | Standard Glass Thickness (mm) | | Performance Class & Grade ¹ | |
|---------------|--------|----------------|-----------------|------------------------------|----------------------------------|-------------------------------|----------|--|------|
| | | Width (Inches) | Height (Inches) | | | Annealed | Tempered | Clad | Wood |
| VG23.5 x 41.5 | | 19-13/16 | 12-7/8 | 1.8 | 4.1 | 2.5 | 3 | CW50 | CW45 |
| VG23.5 x 45.5 | | 19-13/16 | 14-1/2 | 2.0 | 4.6 | 2.5 | 3 | CW50 | CW45 |
| VG23.5 x 47.5 | | 19-13/16 | 15-1/4 | 2.1 | 4.8 | 2.5 | 3 | CW50 | CW45 |
| VG23.5 x 51.5 | | 19-13/16 | 16-7/8 | 2.3 | 5.3 | 2.5 | 3 | CW50 | CW45 |
| VG23.5 x 53.5 | | 19-13/16 | 17-11/16 | 2.4 | 5.6 | 2.5 | 3 | CW50 | CW45 |
| VG23.5 x 57.5 | | 19-13/16 | 19-1/4 | 2.7 | 6.1 | 2.5 | 3 | CW50 | CW45 |
| VG23.5 x 59.5 | | 19-13/16 | 19-15/16 | 2.8 | 6.3 | 2.5 | 3 | CW50 | CW45 |
| VG23.5 x 61.5 | | 19-13/16 | 20-7/8 | 2.9 | 6.5 | 2.5 | 3 | CW50 | CW45 |
| VG23.5 x 65.5 | | 19-13/16 | 22-1/2 | 3.1 | 7.0 | 2.5 | 3 | CW40 | CW40 |
| VG23.5 x 71.5 | | 19-13/16 | 24-7/8 | 3.4 | 7.8 | 2.5 | 3 | CW30 | CW30 |
| VG27.5 x 41.5 | | 23-13/16 | 12-7/8 | 2.1 | 5.0 | 2.5 | 3 | CW50 | CW45 |
| VG27.5 x 45.5 | | 23-13/16 | 14-1/2 | 2.4 | 5.6 | 2.5 | 3 | CW50 | CW45 |
| VG27.5 x 47.5 | | 23-13/16 | 15-1/4 | 2.5 | 5.9 | 2.5 | 3 | CW50 | CW45 |
| VG27.5 x 51.5 | | 23-13/16 | 16-7/8 | 2.8 | 6.5 | 2.5 | 3 | CW50 | CW45 |
| VG27.5 x 53.5 | | 23-13/16 | 17-11/16 | 2.9 | 6.8 | 2.5 | 3 | CW50 | CW45 |
| VG27.5 x 57.5 | | 23-13/16 | 19-1/4 | 3.2 | 7.4 | 2.5 | 3 | CW50 | CW45 |
| VG27.5 x 59.5 | | 23-13/16 | 19-15/16 | 3.3 | 7.7 | 2.5 | 3 | CW50 | CW45 |
| VG27.5 x 61.5 | | 23-13/16 | 20-7/8 | 3.5 | 8.0 | 2.5 | 3 | CW50 | CW45 |
| VG27.5 x 65.5 | | 23-13/16 | 22-1/2 | 3.7 | 8.6 | 2.5 | 3 | CW40 | CW40 |
| VG27.5 x 71.5 | | 23-13/16 | 24-7/8 | 4.1 | 9.5 | 2.5 | 3 | CW30 | CW30 |
| VG29.5 x 41.5 | | 25-13/16 | 12-7/8 | 2.3 | 5.4 | 2.5 | 3 | CW50 | CW45 |
| VG29.5 x 45.5 | | 25-13/16 | 14-1/2 | 2.6 | 6.1 | 2.5 | 3 | CW50 | CW45 |
| VG29.5 x 47.5 | | 25-13/16 | 15-1/4 | 2.7 | 6.4 | 2.5 | 3 | CW50 | CW45 |
| VG29.5 x 51.5 | | 25-13/16 | 16-7/8 | 3.0 | 7.1 | 2.5 | 3 | CW50 | CW45 |
| VG29.5 x 53.5 | | 25-13/16 | 17-11/16 | 3.2 | 7.4 | 2.5 | 3 | CW50 | CW45 |
| VG29.5 x 57.5 | | 25-13/16 | 19-1/4 | 3.5 | 8.1 | 2.5 | 3 | CW50 | CW45 |
| VG29.5 x 59.5 | | 25-13/16 | 19-15/16 | 3.6 | 8.4 | 2.5 | 3 | CW50 | CW45 |
| VG29.5 x 61.5 | | 25-13/16 | 20-7/8 | 3.7 | 8.7 | 2.5 | 3 | CW50 | CW45 |
| VG29.5 x 65.5 | | 25-13/16 | 22-1/2 | 4.0 | 9.4 | 2.5 | 3 | CW40 | CW40 |
| VG29.5 x 71.5 | | 25-13/16 | 24-7/8 | 4.5 | 10.4 | 2.5 | 3 | CW30 | CW30 |
| VG31.5 x 41.5 | | 27-13/16 | 12-7/8 | 2.5 | 5.9 | 2.5 | 3 | CW50 | CW45 |
| VG31.5 x 45.5 | | 27-13/16 | 14-1/2 | 2.8 | 6.6 | 2.5 | 3 | CW50 | CW45 |
| VG31.5 x 47.5 | | 27-13/16 | 15-1/4 | 3.0 | 7.0 | 2.5 | 3 | CW50 | CW45 |
| VG31.5 x 51.5 | | 27-13/16 | 16-7/8 | 3.3 | 7.7 | 2.5 | 3 | CW50 | CW45 |
| VG31.5 x 53.5 | | 27-13/16 | 17-11/16 | 3.4 | 8.0 | 2.5 | 3 | CW50 | CW45 |
| VG31.5 x 57.5 | | 27-13/16 | 19-1/4 | 3.7 | 8.8 | 2.5 | 3 | CW50 | CW45 |
| VG31.5 x 59.5 | | 27-13/16 | 19-15/16 | 3.9 | 9.1 | 2.5 | 3 | CW50 | CW45 |
| VG31.5 x 61.5 | | 27-13/16 | 20-7/8 | 4.0 | 9.5 | 2.5 | 3 | CW50 | CW45 |
| VG31.5 x 65.5 | | 27-13/16 | 22-1/2 | 4.3 | 10.2 | 2.5 | 3 | CW40 | CW40 |
| VG31.5 x 71.5 | | 27-13/16 | 24-7/8 | 4.8 | 11.3 | 2.5 | 3 | CW30 | CW30 |

Continued on next page

(1) Maximum performance when glazed with the appropriate glass thickness.

To convert area to square meters (m²), multiply square feet by 0.0929.



Pella® Reserve™ Traditional Hung Window

Design Data

Replacement Cottage Sash for Single- and Double-Hung

| Unit | Egress | Clear Opening | | Vent Area Ft² | Visible Glass Ft² | Standard Glass Thickness (mm) | | Performance Class & Grade ¹ | |
|---------------|----------------|----------------|-----------------|------------------|----------------------|-------------------------------|----------|--|------|
| | | Width (Inches) | Height (Inches) | | | Annealed | Tempered | Clad | Wood |
| VG35.5 x 41.5 | | 31-13/16 | 12-7/8 | 2.8 | 6.8 | 2.5 | 3 | CW50 | CW45 |
| VG35.5 x 45.5 | | 31-13/16 | 14-1/2 | 3.2 | 7.6 | 2.5 | 3 | CW50 | CW45 |
| VG35.5 x 47.5 | | 31-13/16 | 15-1/4 | 3.4 | 8.0 | 2.5 | 3 | CW50 | CW45 |
| VG35.5 x 51.5 | | 31-13/16 | 16-7/8 | 3.7 | 8.9 | 2.5 | 3 | CW50 | CW45 |
| VG35.5 x 53.5 | | 31-13/16 | 17-11/16 | 3.9 | 9.3 | 2.5 | 3 | CW50 | CW45 |
| VG35.5 x 57.5 | | 31-13/16 | 19-1/4 | 4.3 | 10.1 | 2.5 | 3 | CW50 | CW45 |
| VG35.5 x 59.5 | | 31-13/16 | 19-15/16 | 4.4 | 10.5 | 2.5 | 3 | CW50 | CW45 |
| VG35.5 x 61.5 | | 31-13/16 | 20-7/8 | 4.6 | 11.0 | 2.5 | 3 | CW50 | CW45 |
| VG35.5 x 65.5 | | 31-13/16 | 22-1/2 | 5.0 | 11.8 | 2.5 | 3 | CW40 | CW40 |
| VG35.5 x 71.5 | E ₁ | 31-13/16 | 24-7/8 | 5.5 | 13.0 | 2.5 | 3 | CW30 | CW30 |
| VG39.5 x 41.5 | | 35-13/16 | 12-7/8 | 3.2 | 7.7 | 2.5 | 3 | CW50 | CW45 |
| VG39.5 x 45.5 | | 35-13/16 | 14-1/2 | 3.6 | 8.7 | 2.5 | 3 | CW50 | CW45 |
| VG39.5 x 47.5 | | 35-13/16 | 15-1/4 | 3.8 | 9.1 | 2.5 | 3 | CW50 | CW45 |
| VG39.5 x 51.5 | | 35-13/16 | 16-7/8 | 4.2 | 10.1 | 2.5 | 3 | CW50 | CW45 |
| VG39.5 x 53.5 | | 35-13/16 | 17-11/16 | 4.4 | 10.5 | 2.5 | 3 | CW50 | CW45 |
| VG39.5 x 57.5 | | 35-13/16 | 19-1/4 | 4.8 | 11.5 | 2.5 | 3 | CW50 | CW45 |
| VG39.5 x 59.5 | | 35-13/16 | 19-15/16 | 5.0 | 11.9 | 2.5 | 3 | CW50 | CW45 |
| VG39.5 x 61.5 | | 35-13/16 | 20-7/8 | 5.2 | 12.4 | 2.5 | 3 | CW45 | CW45 |
| VG39.5 x 65.5 | | 35-13/16 | 22-1/2 | 5.6 | 13.4 | 2.5 | 3 | CW40 | CW40 |
| VG39.5 x 71.5 | E | 35-13/16 | 24-7/8 | 6.2 | 14.8 | 2.5 | 3 | CW30 | CW30 |
| VG41.5 x 41.5 | | 37-13/16 | 12-7/8 | 3.4 | 8.2 | 2.5 | 3 | CW50 | CW45 |
| VG41.5 x 45.5 | | 37-13/16 | 14-1/2 | 3.8 | 9.2 | 2.5 | 3 | CW50 | CW45 |
| VG41.5 x 47.5 | | 37-13/16 | 15-1/4 | 4.0 | 9.7 | 2.5 | 3 | CW50 | CW45 |
| VG41.5 x 51.5 | | 37-13/16 | 16-7/8 | 4.4 | 10.7 | 2.5 | 3 | CW50 | CW45 |
| VG41.5 x 53.5 | | 37-13/16 | 17-11/16 | 4.6 | 11.2 | 2.5 | 3 | CW50 | CW45 |
| VG41.5 x 57.5 | | 37-13/16 | 19-1/4 | 5.1 | 12.2 | 2.5 | 3 | CW45 | CW45 |
| VG41.5 x 59.5 | | 37-13/16 | 19-15/16 | 5.3 | 12.7 | 2.5 | 3 | CW45 | CW45 |
| VG41.5 x 61.5 | | 37-13/16 | 20-7/8 | 5.5 | 13.2 | 2.5 | 3 | CW45 | CW45 |
| VG41.5 x 65.5 | | 37-13/16 | 22-1/2 | 5.9 | 14.1 | 2.5 | 3 | CW40 | CW40 |
| VG41.5 x 71.5 | E | 37-13/16 | 24-7/8 | 6.5 | 15.6 | 2.5 | 3 | CW30 | CW30 |

Egress Notes:

Check all applicable local codes for emergency egress requirements.

E = Window meets minimum clear opening of 24" height, 20" width, and 5.7 ft².

E1 = Window meets minimum clear opening of 24" height, 20" width, and 5.0 ft².

(1) Maximum performance when glazed with the appropriate glass thickness.

To convert area to square meters (m²), multiply square feet by 0.0929.



Pella® Reserve™ Traditional Hung Window

Detailed Product Description - Aluminum-Clad Exterior

Frame

- Select softwood, immersion treated with Pella's EnduraGuard® wood protection formula in accordance with WDMA I.S.-4. The EnduraGuard formula includes three active ingredients for protection against the effects of moisture, decay, stains from mold and mildew. Plus, an additional ingredient adds protection against termite damage.
- Interior exposed surfaces are [clear pine] [mahogany] [douglas fir].
- Exterior surfaces are clad with aluminum.
- Components are assembled with screws, staples and concealed corner locks.
- Overall frame depth is 5" (127mm) for a wall depth of 3-11/16" (94mm).
- Optional factory applied jamb extensions available between 3-13/16" (97mm) and 9-3/16" (233mm).
- Vinyl jamb liner with wood / clad inserts.
- Optional factory installed fold-out installation fins with flexible fin corners.
- Optional factory-applied EnduraClad® exterior trim.
- Optional factory-installed Pella Steady Set Installation System.

Sash

- Select softwood, immersion treated with Pella's EnduraGuard® wood protection formula in accordance with WDMA I.S.-4. The EnduraGuard formula includes three active ingredients for protection against the effects of moisture, decay, stains from mold and mildew. Plus, an additional ingredient adds protection against termite damage.
- Interior exposed surfaces are [clear pine] [mahogany] [douglas fir]. Any curved member may have visible finger-jointed surfaces.
- Exterior surfaces are clad with extruded aluminum butt-jointed at all corners of the sash with through-stile construction and sealed.
- Corners mortised and tenoned, glued and secured with metal fasteners.
- Sash thickness is 1-7/8" (47mm).
- Double-Hung: Upper sash has surface-mounted wash locks for easy tilt-in cleaning] [Single-Hung: Fixed upper sash has surface-mounted wash locks] [Arch Head units have no wash locks].
- Lower sash has concealed wash locks in lower check rail allowing sash to tilt in for easy cleaning.
- Simulated-Hung units have non-operable upper and lower sashes.
- Sash exterior profile is [ogee] [putty glaze], interior profile is ogee.

Weatherstripping

- Water-stop santoprene-wrapped foam at head and sill.
- Thermoplastic elastomer bulb with slip-coating set into lower sash for tight contact at check rail.
- Kerf mounted bristle weatherstrip at sill.
- Vinyl-wrapped foam inserted into jamb liner to seal against sides of sash.

Glazing System

- Quality float glass complying with ASTM C 1036.
- Custom and high altitude glazing available.
- Silicone-glazed dual-pane 11/16" dual-seal insulating glass [[annealed] [tempered]], [[clear] [[Advanced] [SunDefense™] [SunDefense+] [NaturalSun] [NaturalSun+] [AdvancedComfort] Low-E [with argon]] [[bronze] [gray] [green] Advanced Low-E [with Argon]]] [obscure] [Reflective Bronze].
- Silicone-glazed dual-pane 13/16" dual-seal [[annealed] [tempered]] non-impact laminated glass [[clear] [[Advanced] [SunDefense] Low-E [with Argon]] [[bronze] [gray] [green] Advanced Low-E [with argon]].

Exterior

- Aluminum-clad exteriors shall be finished with EnduraClad® protective finish, in a multi-step, baked-on finish.
 - Color is [standard] [feature] [custom]₁.
- Aluminum-clad exteriors shall be finished with EnduraClad Plus protective finish with 70% fluoropolymer resin in a multi-step, baked-on finish.
 - Color is [standard] [feature] [custom]₁.

Interior

- [Unfinished, ready for site finishing] [factory primed with one coat acrylic latex] [pine: factory prefinished [paint] [stain]₁].

Hardware

- Galvanized block-and-tackle balances are connected to self-locking balance shoes which are connected to the sashes using zinc die cast terminals and concealed within the frame.
- Sash lock is [standard (cam-action)] [historic spoon-style] [air-conditioner lock] [simulated lock (Single-piece lock ties upper and lower sash together. When removed lower sash becomes operable)]. Two sash locks on units with frame width 37" and greater.
- Optional sash lift furnished for field installation. Two lifts on units with frame width 37" and greater.
- Hardware finish is [baked enamel [Champagne] [White] [Brown] [Matte Black]] [Satin Brass] [Satin Nickel] [Oil-rubbed Bronze] [Distressed Bronze] [Distressed Nickel].

Optional Products

Sash

- Exterior sash lugs
 - Optional factory applied accessory. Exterior finish is [Standard₁] [Custom₁].

Grilles

- Integral Light Technology® grilles
 - Interior grilles are [5/8"] [7/8"] [1-1/4"] [2"] ogee profile that are solid [pine] [mahogany] [douglas fir]. Interior surfaces are [unfinished, ready for site finishing] [factory primed] [pine: factory prefinished [paint] [stain] ₁].
 - Exterior grilles are [5/8" putty glaze profile] [7/8" [putty glaze] [ogee] profile] [1-1/4" [putty glaze] [ogee] profile] [2" ogee profile] that are extruded aluminum.
 - Patterns are [Traditional] [Prairie] [Top Row] [New England] [Victorian].
 - Insulating glass contains non-glare spacer between the panes of glass.
 - Grilles are adhered to both sides of the insulating glass with VHB acrylic adhesive tape and aligned with the non-glare spacer.

Grilles-Between-the-Glass₂

- Insulating glass contains 3/4" contoured aluminum grilles permanently installed between two panes of glass.
- Patterns are [Traditional] [9-Lite Prairie] [Cross] [Top Row]
- Interior color is [White] [Tan₃] [Brown₃] [Putty₃] [Black] [Ivory] [Harvest] [Cordovan] [Brickstone].
- Exterior color₄ is [standard]₁.

Screens

- Integrated Rolscreen® (for rectangular units only)₆
 - Retractable screen integrated into [lower sash] [both upper and lower sash]. Screen rollers are fixed and concealed within the frame, screen is held to the sash by magnets which release when the bottom sash is tilted for cleaning, and when the upper sash is opened past 18".
 - InView Screen cloth, black vinyl-coated 18/18 mesh fiberglass screen cloth complying with ASTM D 3656 and the performance requirements of SMA 1201.
- InView™ screens
 - [Half-Size] [Full-Size₄] black vinyl-coated 18/18 mesh fiberglass screen cloth complying with the performance requirements of SMA 1201, set in a [standard roll-form] [premium extruded] aluminum frame fitted to outside of window, supplied complete with all necessary hardware.
 - Full screen spreader bar placed on units > 37" width or > 65" height.
 - Screen frame finish is [standard screen: baked enamel] [premium extruded: baked enamel], color to match window cladding.

Hardware

- Optional factory applied limited opening device available for vent units in stainless steel; nominal 3-3/4" opening. Limiting device concealed from view.
- Optional factory applied window opening control device. Device allows window to open less than 4" with normal operation, with a release mechanism that allows the sash to open completely. Complies with ASTM F2090-10.

(1) Contact your local Pella sales representative for current designs and color options.

(2) Available in clear or Low-E insulating glass only.

(3) Tan, Brown and Putty Interior GBG colors are available in single-tone (Brown/Brown, Tan/Tan or Putty/Putty). Other interior colors are also available with Tan or Brown exterior.

(4) Appearance of exterior grille color will vary depending on Low-E coating on glass.

(5) Full screens are available on units ≤ 96" height.

(6) Integrated Rolscreen only available on sizes ≥ 34" tall and 21" wide, and ≤ 84" tall and 48" wide.



Pella® Reserve™ Traditional Hung Window

Detailed Product Description - Wood Exterior

Frame

- Select softwood, immersion treated with Pella's EnduraGuard® wood protection formula in accordance with WDMA I.S.-4. The EnduraGuard formula includes three active ingredients for protection against the effects of moisture, decay, stains from mold and mildew. Plus, an additional ingredient adds protection against termite damage.
- Interior exposed surfaces are [clear pine] [mahogany] (standard rectangular windows only). Any curved member may have visible finger-jointed surfaces.
- Exterior surfaces are [pine] [mahogany].
- Overall frame depth is 4-3/8" (111mm) for a wall depth of 4-3/16" (106mm).
- Vinyl Jamb liner includes wood / clad inserts.
- Optional factory applied jamb extensions available between 4-5/16" (110mm) and 9-3/16" (233mm).

Sash

- Select softwood, immersion treated with Pella's EnduraGuard® wood protection formula in accordance with WDMA I.S.-4. The EnduraGuard formula includes three active ingredients for protection against the effects of moisture, decay, stains from mold and mildew. Plus, an additional ingredient adds protection against termite damage.
- Interior exposed surfaces are [clear pine] [mahogany (standard rectangular windows only)]. Any curved member may have visible finger-jointed surfaces.
- Exterior surfaces are [pine] [mahogany].
- Sash exterior profile is putty glaze, interior profile is ogee.
- Corners [mortised and tenoned on rectangular units] [mitered on arch head units], glued and secured with metal fasteners.
- Sash thickness is 1-7/8" (47mm).
- [Double-Hung: Upper sash has surface-mounted wash locks] [Single-Hung: Fixed upper sash has surface-mounted wash locks] [Arch Head units have no wash locks].
- Lower sash has concealed wash locks in lower check rail.
- Sashes tilt in for easy cleaning.
- Simulated-Hung units have non-operable upper and lower sashes.

Weatherstripping

- Water-stop santoprene-wrapped foam at head and sill. Thermoplastic elastomer bulb with slip-coating set into lower sash for tight contact at check rail.
- Kerf mounted bristle weatherstrip at sill.
- Vinyl-wrapped foam inserted into jamb liner to seal against sides of sash.

Glazing System

- Quality float glass complying with ASTM C 1036.
- Custom and high altitude glazing available.
- Silicone-glazed 11/16" dual-seal insulating glass [[annealed] [tempered]] [[clear] [[Advanced] [SunDefense™] [SunDefense+] [AdvancedComfort] [NaturalSun] [NaturalSun+] Low-E [with argon]] [bronze] [gray] [green] Advanced Low-E with argon].

Exterior

- [Pine: factory primed with one coat acrylic latex] [Mahogany: [factory primed with one coat acrylic latex] [Unfinished, ready for site finishing]].

Interior

- [Unfinished, ready for site finishing] [factory primed with one coat acrylic latex] [pine: factory prefinished [paint] [stain]₁].

Hardware

- Galvanized block-and-tackle balances are connected to self-locking balance shoes which are connected to the sashes using zinc die cast terminals and concealed within the frame.
- Sash lock is [standard (cam-action)] [historic spoon-style] [air-conditioner lock] [simulated lock (Single-piece lock ties upper and lower sash together. When removed lower sash becomes operable)]. Two sash locks on units with frame width 37" and greater.
- Optional sash lift furnished for field installation. Two lifts on units with frame width 37" and greater.
- Hardware finish is [baked enamel [Champagne] [White] [Brown] [Matte Black]] [satin brass] [satin nickel] [oil-rubbed bronze] [distressed bronze] [distressed nickel].

Optional Products

Grilles

- Integral Light Technology® grilles
 - Interior grilles are solid [5/8"] [7/8"] [1-1/4"] ogee profile that are solid [pine] [mahogany]. Interior surfaces are [unfinished, ready for site finishing] [factory primed] [pine: factory prefinished [paint] [stain]₁].
 - Exterior grilles are solid [5/8"] [7/8"] [1-1/4"] putty glaze profile] that are [pine] [mahogany]. Exterior surfaces are water repellent, preservative-treated in accordance with WDMA I.S.-4, and are [unfinished, ready for site finishing] [factory primed].
 - Patterns are [Traditional] [Prairie] [Top Row] [New England] [Victorian].
 - Insulating glass contains non-glare spacer between the panes of glass.
 - Grilles are adhered to both sides of the insulating glass with VHB acrylic adhesive tape and aligned with the non-glare spacer
– or –
- Grilles-Between-the-Glass₂
 - Insulating glass contains 3/4" contoured aluminum grilles permanently installed between two panes of glass.
 - Patterns are [Traditional] [9-Lite Prairie] [Cross] [Top Row]
 - Interior color is [White] [Tan₃] [Brown₃] [Putty₃] [Black] [Ivory] [Harvest] [Cordovan] [Brickstone].
 - Exterior color₅ is [standard]₁.

Screens

- InView™ Screens
 - [Half-Size] [Full-Size₄] black vinyl-coated 18/18 mesh fiberglass screen cloth complying with the performance requirements of SMA 1201, set in a [standard roll-form aluminum frame with 3/4" wide rails and stiles] [premium extruded aluminum frame with 1" wide rails and stiles] fitted to outside of window, supplied complete with all necessary hardware.
 - Full screen spreader bar placed on units > 37" width or > 65" height.
 - Insect screen frame finish is baked enamel.

Hardware

- Optional factory applied limited opening device available for vent units in stainless steel; nominal 3-3/4" opening. Limiting device concealed from view.
- Optional factory applied window opening control device. Device allows window to open less than 4" with normal operation, with a release mechanism that allows the sash to open completely. Complies with ASTM F2090-10.

(1) Contact your local Pella sales representative for current designs and color options.

(2) Available in clear or Low-E insulating glass with argon, and obscure insulated glass.

(3) Tan, Brown and Putty Interior GBG colors are available in single-tone (Brown/Brown, Tan/Tan or Putty/Putty). Other interior colors are also available with Tan or Brown exterior.

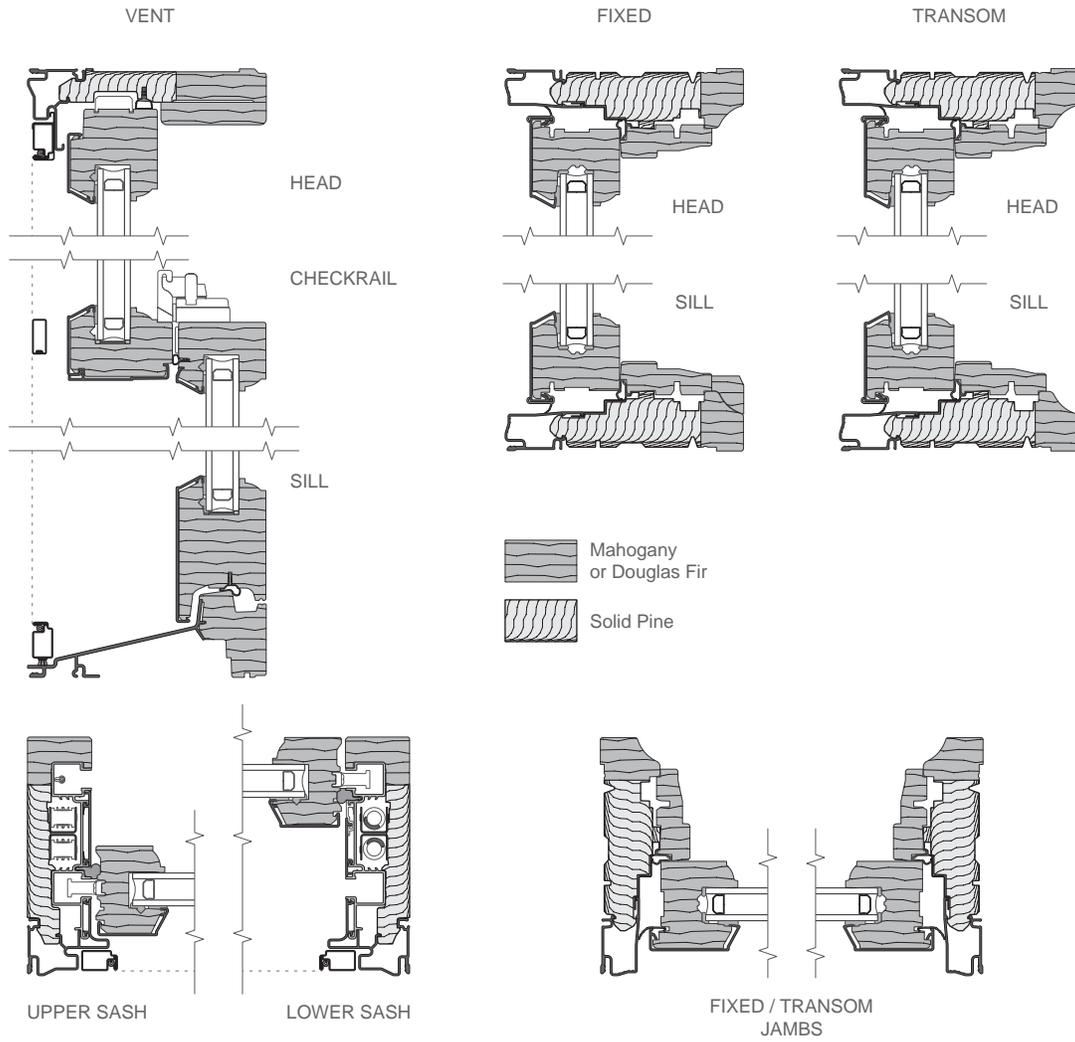
(4) Full screens are available on units ≤ 96" height.

(5) Appearance of exterior grille color will vary depending on Low-E coating on glass.



Pella® Reserve™ Traditional Hung Window

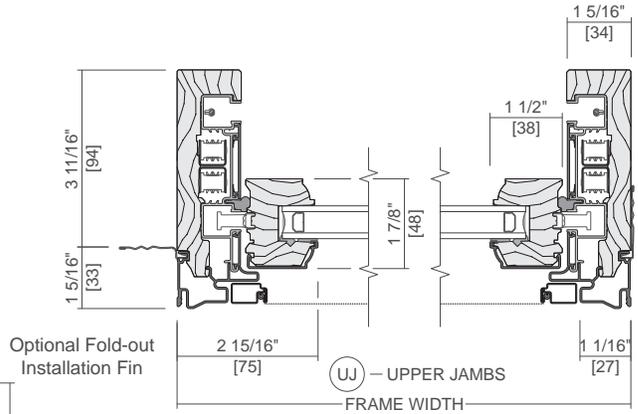
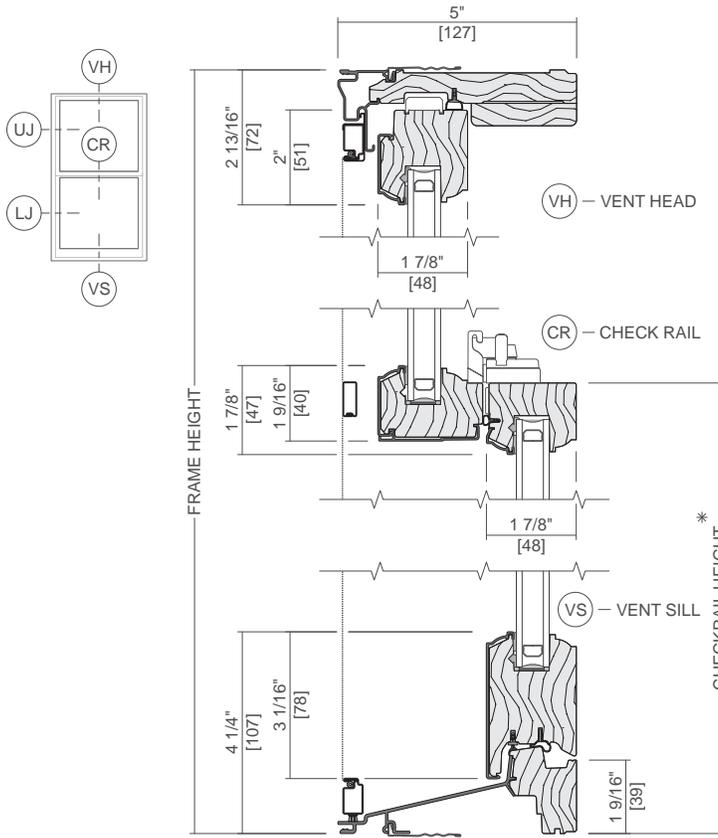
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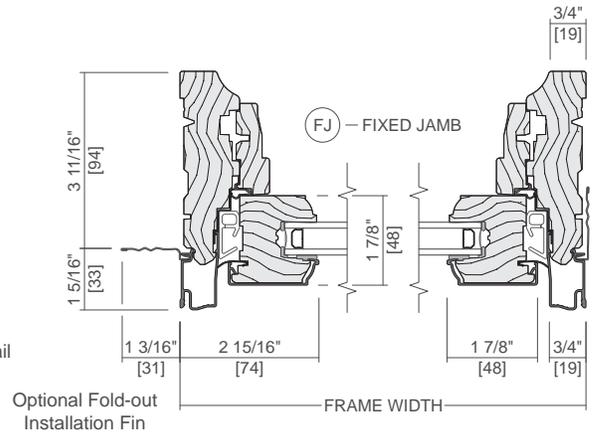
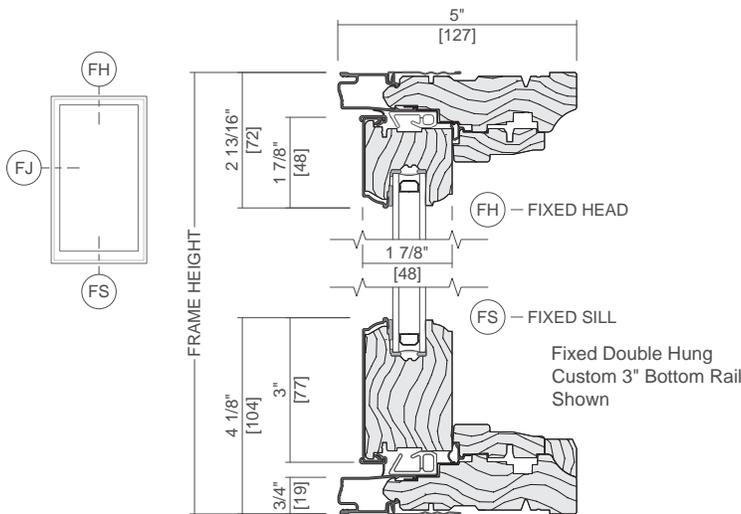
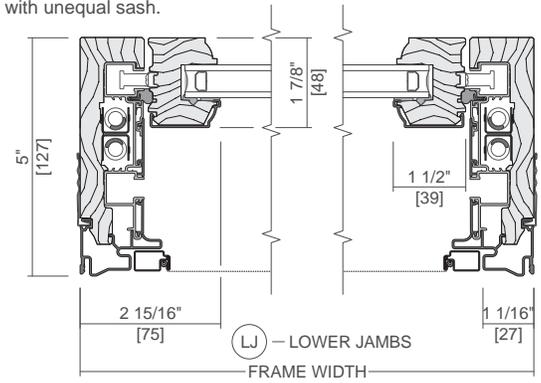


Pella® Reserve™ Traditional Hung Window

Unit Sections - Aluminum-Clad Ogee Exterior Glazing Profile



* Dimension required for ordering units with unequal sash.

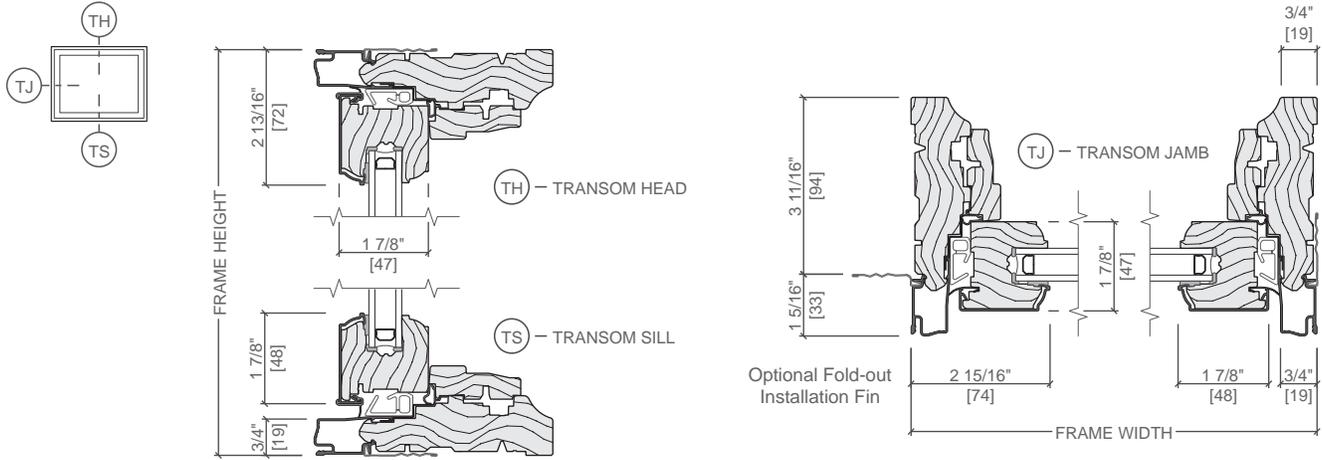


Scale 3" = 1' 0"
All dimensions are approximate.

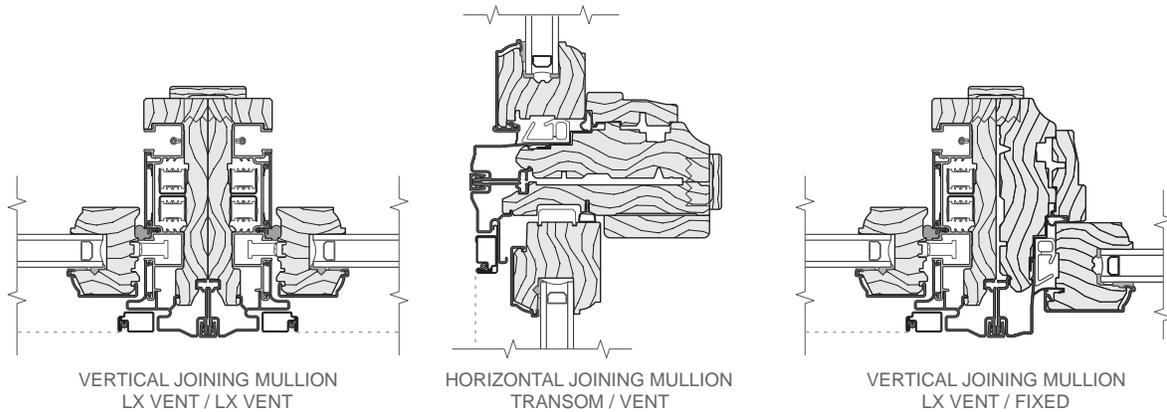


Pella® Reserve™ Traditional Hung Window

Unit Sections - Aluminum-Clad Ogee Exterior Glazing Profile



Typical Joining Mullions



Scale 3" = 1' 0"

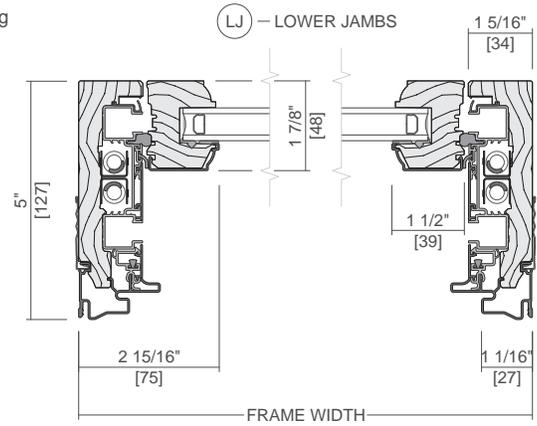
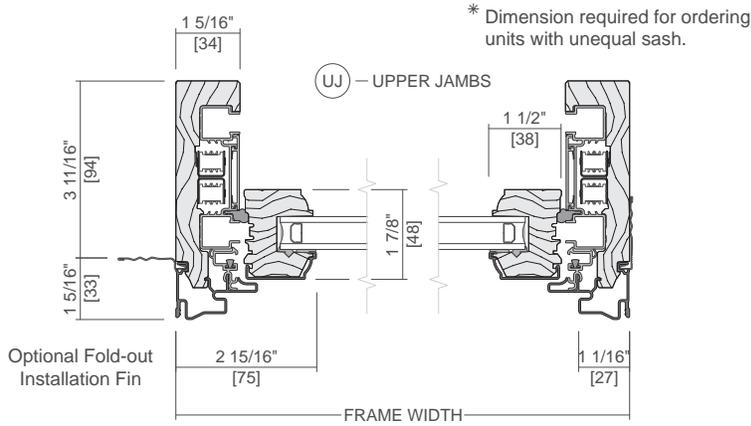
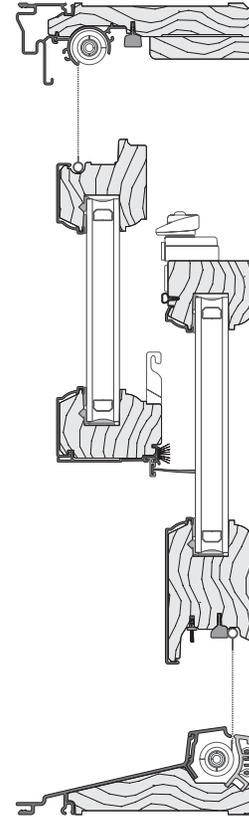
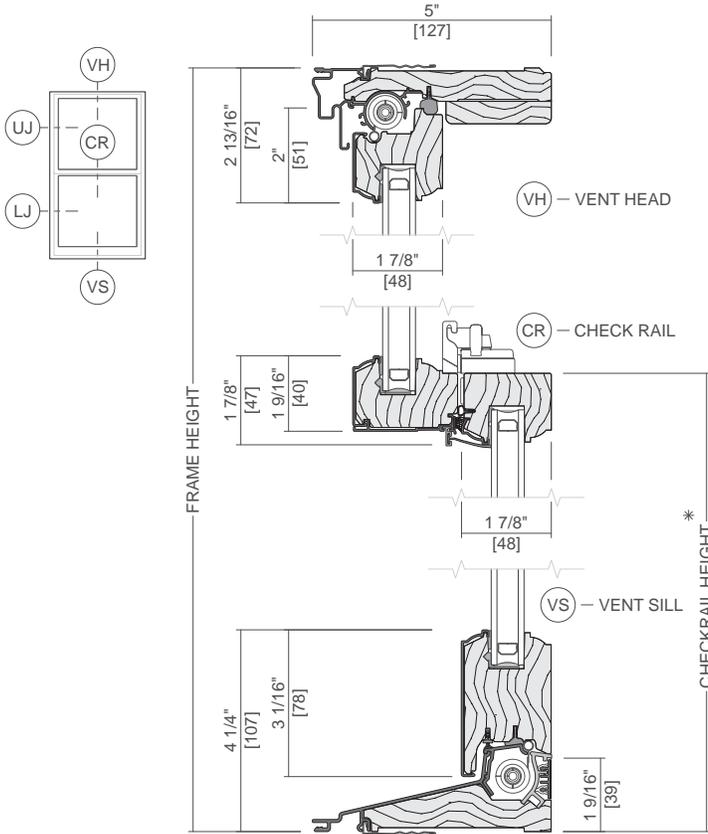
All dimensions are approximate.

See supporting document Combination Recommendations, for mullion limitations and reinforcing requirements.



Pella® Reserve™ Traditional Hung Window

Unit Sections - Aluminum-Clad Ogee Exterior Glazing Profile with Integrated Rolldown®



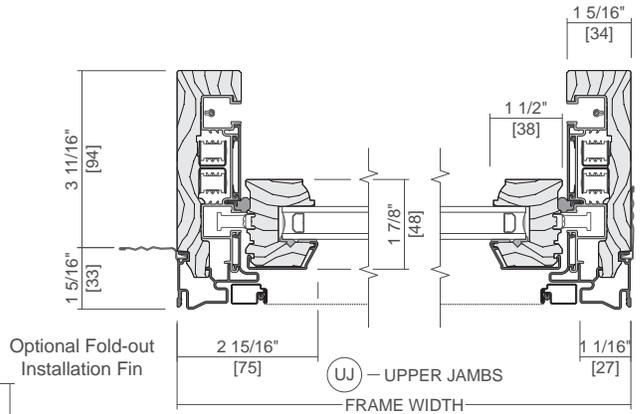
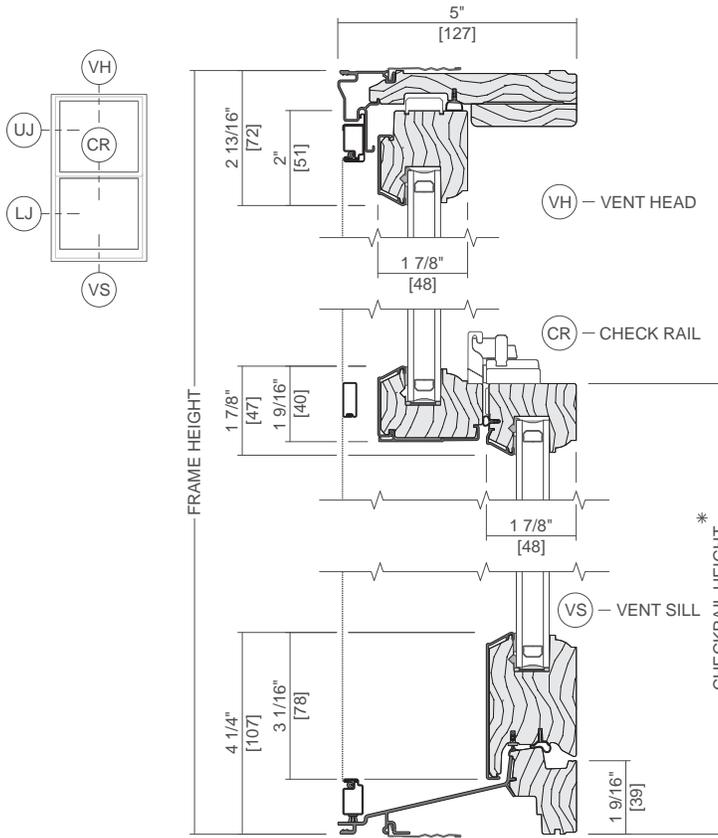
Scale 3" = 1' 0"

All dimensions are approximate.

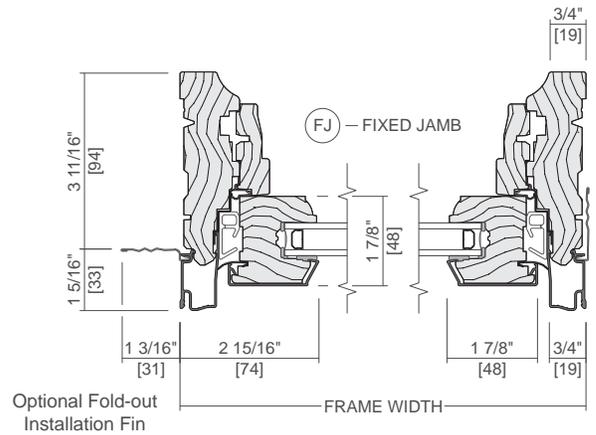
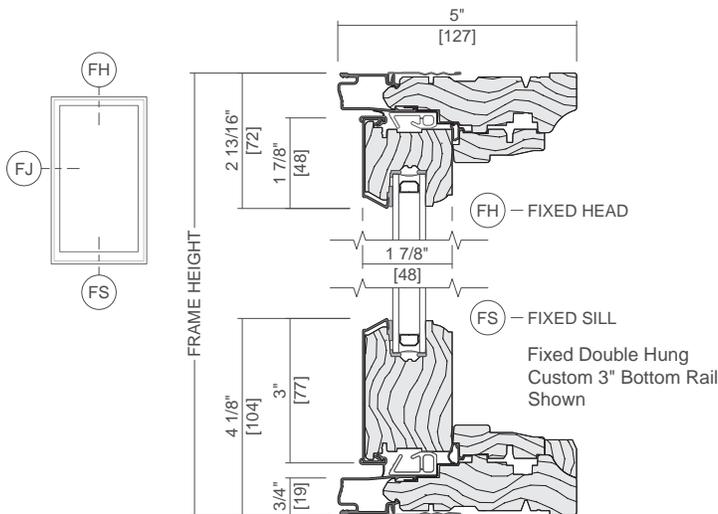
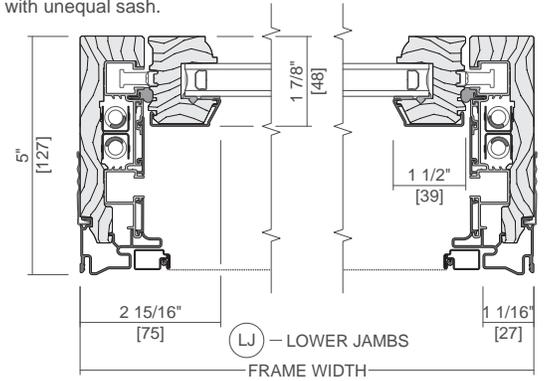


Pella® Reserve™ Traditional Hung Window

Unit Sections - Aluminum-Clad Putty Glaze Exterior Profile



* Dimension required for ordering units with unequal sash.



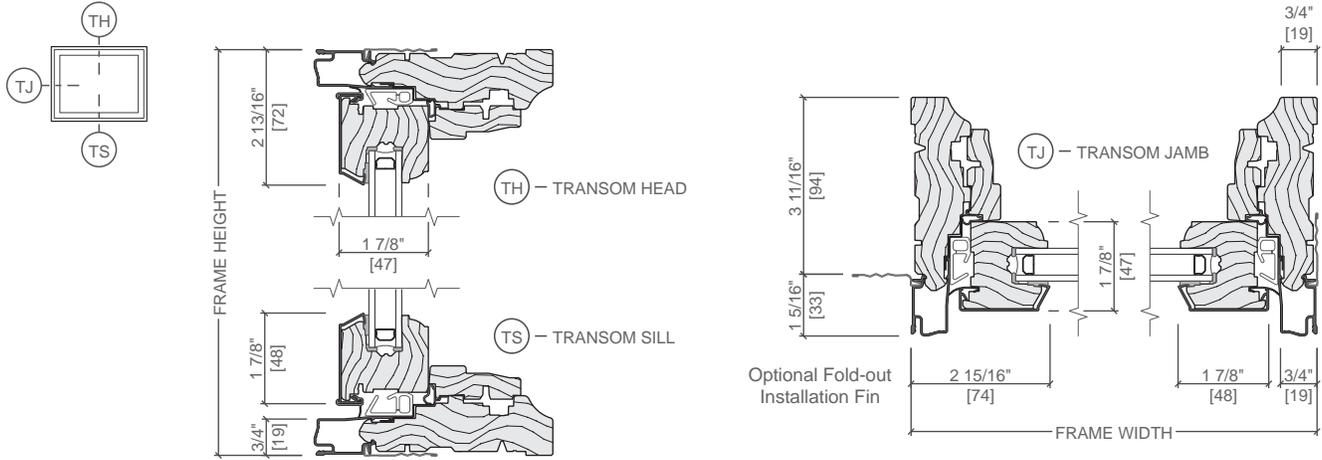
Scale 3" = 1' 0"

All dimensions are approximate.

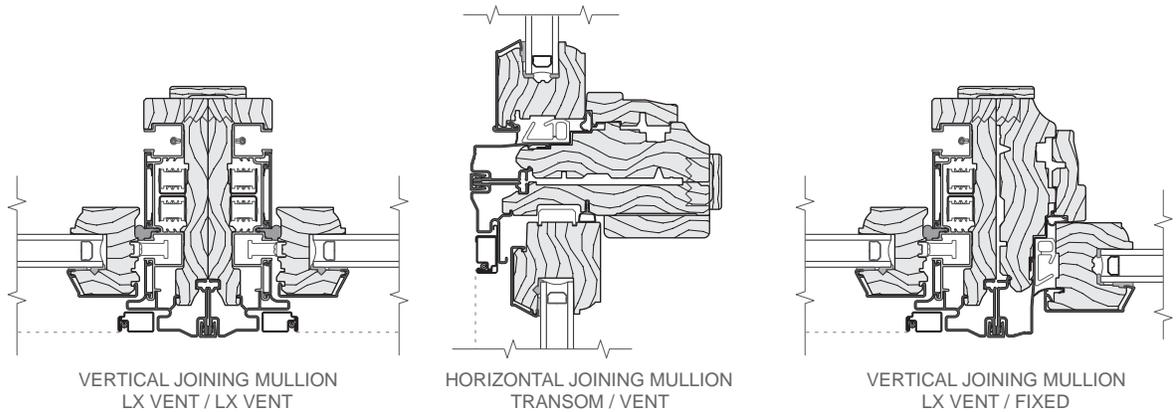


Pella® Reserve™ Traditional Hung Window

Unit Sections - Aluminum-Clad Putty Glaze Exterior Profile



Typical Joining Mullions



Scale 3" = 1' 0"

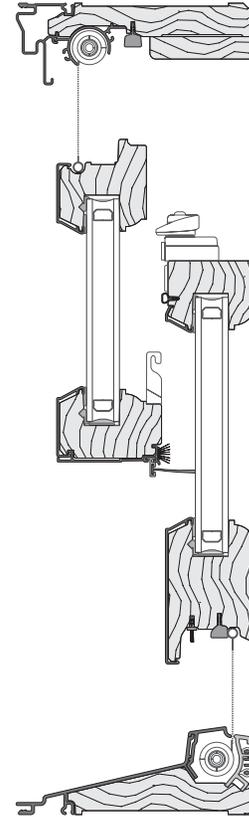
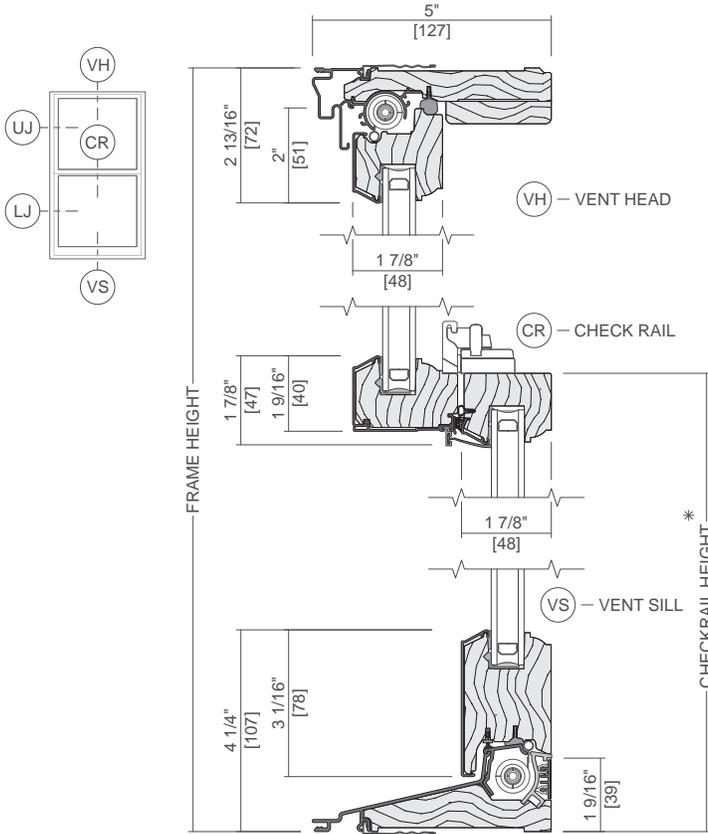
All dimensions are approximate.

See supporting document Combination Recommendations, for mullion limitations and reinforcing requirements.

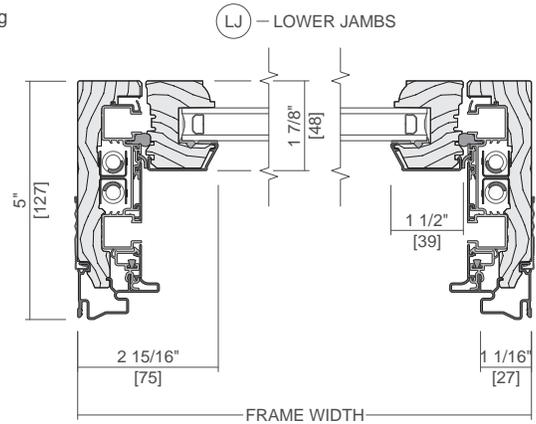
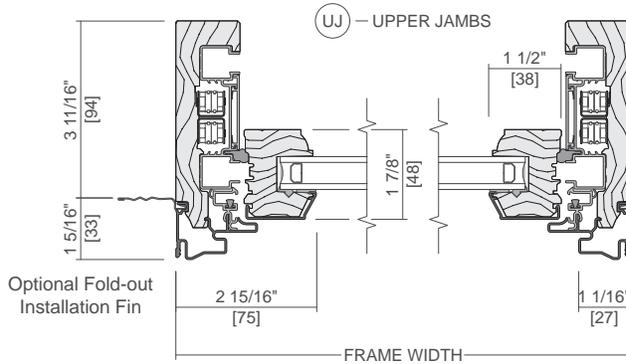


Pella® Reserve™ Traditional Hung Window

Unit Sections - Aluminum-Clad Putty Glaze Exterior Profile with Integrated Rolldown®



* Dimension required for ordering units with unequal sash.



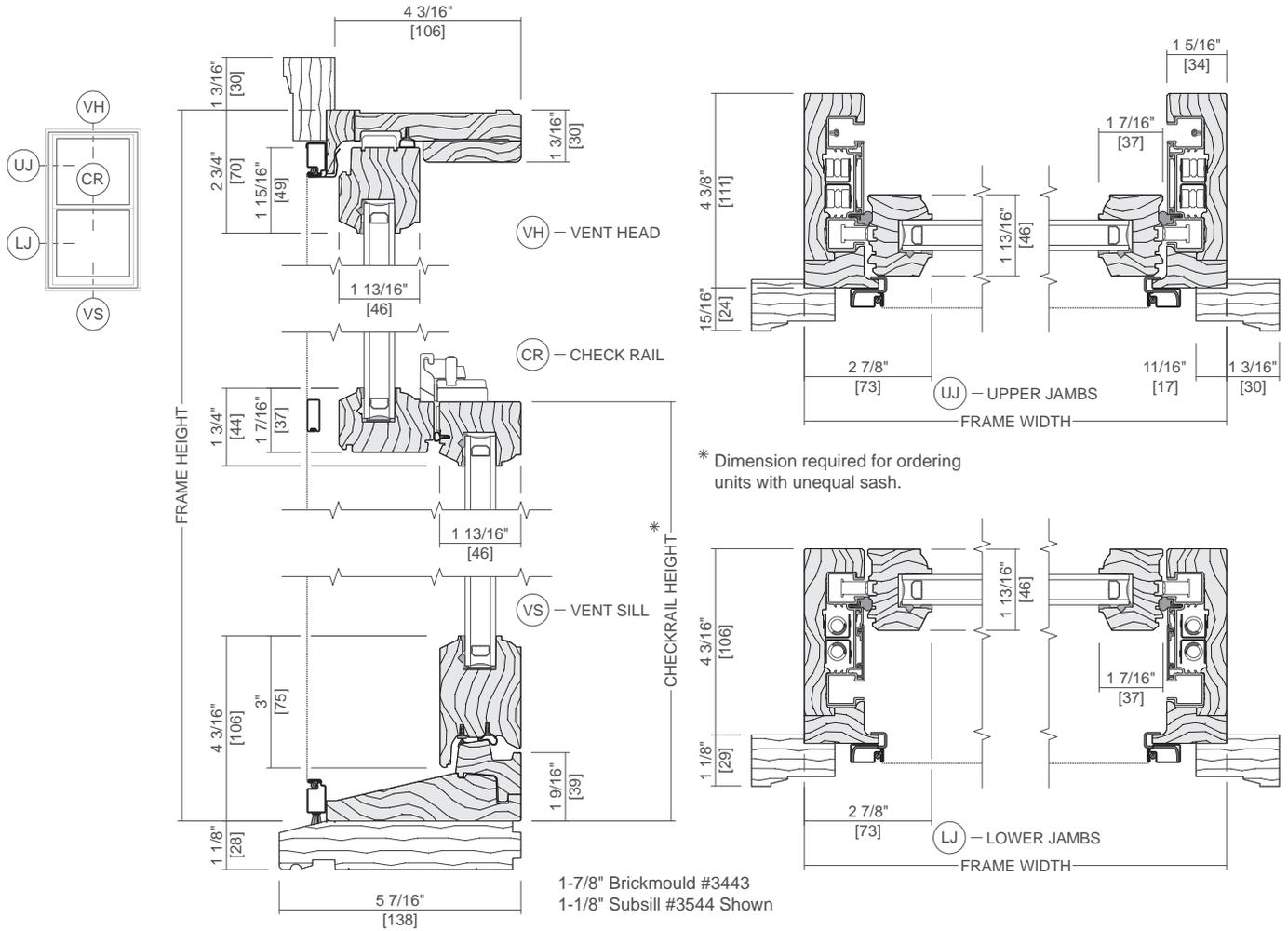
Scale 3" = 1' 0"

All dimensions are approximate.

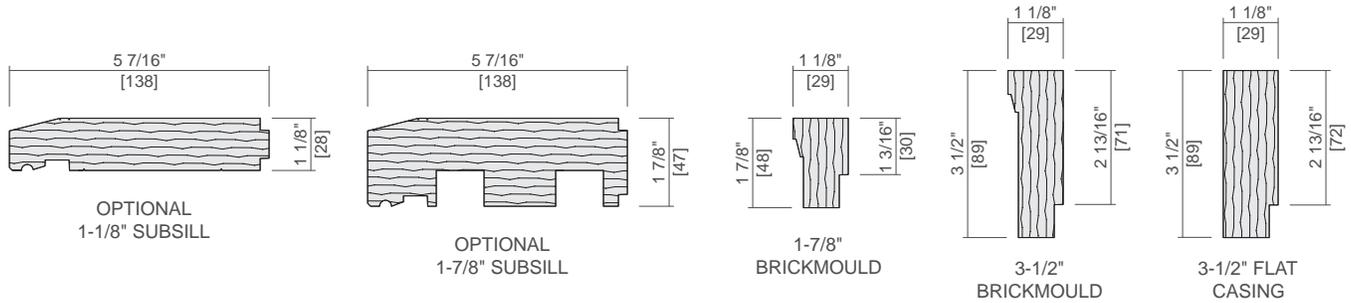


Pella® Reserve™ Traditional Hung Window

Unit Sections - Wood Exterior Putty Glaze Exterior Profile



* Dimension required for ordering units with unequal sash.



Scale 3" = 1' 0"

All dimensions are approximate.

Pella® Reserve™

Traditional Wood & Clad/Wood



Exquisitely designed windows and doors with unparalleled historical detailing.

Double-Hung Interior

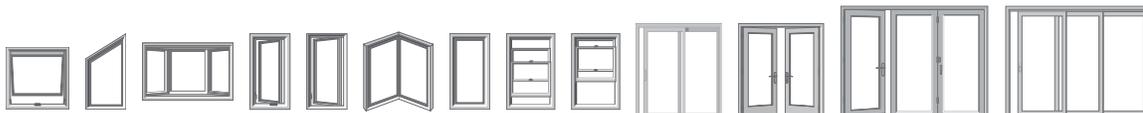


Double-Hung Exterior



- Easy-to-learn Pella Steady Set™ interior installation system**
 Pella Steady Set Interior Installation System is a revolutionary, award-winning and safer way to install new construction windows.¹ The simple system is the fastest, most labor efficient wood window installation system with uncompromising quality.² Available on select windows.
- Historical Details**
 Our most historically authentic line of wood windows and patio doors. Featuring through-stile construction, deliberate proportions and intricate profiles. Pella Reserve – Traditional products are the ideal choice for historical renovations and traditional building projects.
- Authentic hardware**
 Complement your project with historically authentic spoon-lock window hardware. Our Antiek casement window hardware is inspired by period furniture to deliver authentic traditional style.
- Architectural interest**
 Pella's Integral Light Technology® grille helps capture the look of true-divided-light without sacrificing energy performance. Further your aesthetic with the putty profile, recreated with historically accurate angles to provide meaningful depth and a realistic shadow. Pella Reserve products offer the industry's deepest sash dimension.
- Virtually unlimited customization**
 If you can dream it, we can build it with our most customizable product line. From extra tall to extra wide, Pella can craft unique windows that complement your aesthetic. Custom sizes, grille patterns and designs, finishes, wood types and glass options are available.
- Tailor-made solutions**
 From preliminary drawings to installation, Pella's expert team of architects, engineers, drafters and consultants can work to deliver custom window and door solutions for your project. Partner with Pella to achieve your unique vision without concessions.
- Intentional innovation**
 The award-winning Integrated Rolscreen® retractable screen preserves aesthetics and the view. It is a double- and single-hung screen that appears when you open the window and rolls away, out of sight, when you close it.
- Durable interiors and extruded aluminum exteriors**
 To help save you time on the jobsite, interior finish options are available in a variety of paints and stains, or primed and ready-to-paint. To complement your exterior aesthetic, choose from our carefully curated color palette or define your own custom color for your project.
- ENERGY STAR® certified³**
 Pella wood products offer energy-efficient options that will meet or exceed ENERGY STAR guidelines in all 50 states.
- Testing beyond requirements**
 All wood products and testing are not created equal. Pella raises the bar on industry standard testing and beyond to deliver long-lasting products and reduced callbacks. Every Pella wood window and door passes 5, on average, quality checks before it arrives on the jobsite.
- Best limited lifetime warranty⁴**
 Pella Reserve products are covered by the best limited lifetime warranty in the business for wood windows and patio doors.⁴

Available in these window and patio door styles:



Special shape windows also available.

^{1,2,3,4} See back cover for disclosures.

Product Specifications

| Window & Patio Door Styles | Min. Width | Min. Height | Max. Width | Max. Height | Performance Class & Grade | Performance Values | | | Frame / Install |
|--------------------------------------|------------|-------------|------------|-------------|---------------------------|--------------------|-----------|-----------|---|
| | | | | | | U-Factor | SHGC | STC | |
| Awning | 13-3/4" | 13-3/4" | 59" | 59" | LC30 - CW50 | 0.25-0.29 | 0.18-0.47 | 27-35 | Pella Steady Set-; Fold-out Fin, Block Frame, EnduraClad Exterior Trim / Brickmould |
| Casement | 13-3/4" | 13-3/4" | 47" | 108" | R35-CW50 | 0.25-0.29 | 0.18-0.47 | 27-34 | |
| Fixed Casement | 10" | 10" | 144" | 144" | R35-CW50 | 0.25-0.29 | 0.18-0.47 | 27-35 | |
| Double-Hung | 14" | 24-3/8" | 48" | 96" | CW30-CW50 | 0.25-0.30 | 0.19-0.53 | 28-35 | Pocket Replacement |
| Precision Fit Double-Hung | 13-1/2" | 23-3/4" | 48" | 84" | CW40-CW50 | 0.25-0.31 | 0.19-0.53 | 26-30 | |
| Monumental Hung | 13-3/4" | 24" | 72" | 144" | LC25-CW50 | 0.25-0.30 | 0.17-0.47 | 29-34 | Fold-out Fin, Block Frame, EnduraClad Exterior Trim / Brickmould |
| In-Swing Hinged Patio Door (Single) | 18" | 36" | 48" | 119-1/2" | LC40-LC55 | 0.25-0.29 | 0.14-0.40 | 31-35 | |
| In-Swing Hinged Patio Door (Double) | 36" | 36" | 96" | 119-1/2" | LC40-LC55 | 0.25-0.29 | 0.14-0.40 | 31-35 | |
| Out-Swing Hinged Patio Door (Single) | 18" | 36" | 48" | 119-1/2" | R50-LC70 | 0.25-0.30 | 0.14-0.39 | 30-36 | |
| Out-Swing Hinged Patio Door (Double) | 36" | 36" | 96" | 119-1/2" | R50-LC70 | 0.25-0.30 | 0.14-0.39 | 30-36 | |
| Sliding Patio Door (OX, XO) | 60" | 74" | 120" | 120" | R20-LC50 | 0.26-0.31 | 0.20-0.51 | 0.28-0.33 | |
| Sliding Patio Door (OXO) | 90" | 74" | 180" | 120" | R20-LC35 | 0.26-0.31 | 0.20-0.51 | — | |
| Sliding Patio Door (OXXO) | 117" | 74" | 237" | 120" | R20-LC35 | 0.26-0.31 | 0.20-0.51 | — | |
| Multi-Slide Patio Door | 40-1/4" | 50-1/2" | 701-5/8" | 119-1/2" | R15-LC25 ³ | 0.30-0.36 | 0.15-0.46 | 31 | For more info visit PellaADM.com |
| Bifold Patio Door | 31-3/4" | 55-1/2" | 312" | 119-1/2" | R15-LC25 ³ | 0.26-0.44 | 0.13-0.45 | — | |

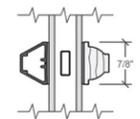
Window sizes available in 1/8" increments

Special sizes available. For more information regarding performance, visit pella.com/performance. For more information regarding frame and installation types, visit PellaADM.com.

Grilles

Integral Light Technology[®]

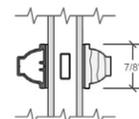
Choose the look of true divided light without sacrificing energy performance.



Putty Glaze Exterior with Ogee Interior⁴
7/8", 1-1/4" or 2"



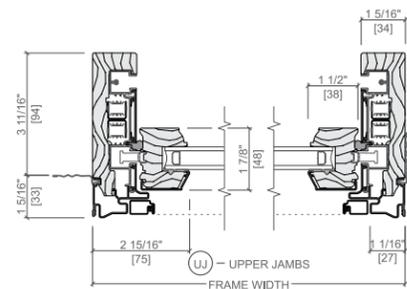
Putty Glaze Exterior with Ogee Interior⁴
7/8", 1-1/4" or 2"



Ogee Exterior with Ogee Interior⁴
7/8", 1-1/4" or 2"

Cross Sections

Cross Sections



Optional Fold-out Installation Fin

The double-hung cross sections provide visual reference to the historic putty exterior profile and traditional, beveled Ogee interior that add architectural interest to your project.

^{3,4} See back cover for disclosures.

Window Hardware

Classic Collection

Get a timeless look with authentic styles in classic finishes.



Fold-away Crank
Antiek



Spoon-Style Lock

Finishes:



Champagne White Brown Matte Black



Oil-Rubbed Bronze Satin Nickel Satin Brass

Rustic Collection

Create a distinct and charming look with distressed finishes.



Fold-away Crank
Antiek



Spoon-Style Lock

Finishes:



Distressed Bronze Distressed Nickel

Essential Collection

Select from popular designs and finishes to suit every style.



Fold-away Crank



Cam-Action Lock

Finishes:



Champagne White Brown Matte Black



Oil-Rubbed Bronze Satin Nickel Satin Brass

Patio Door Hardware

Classic Collection

Choose timeless pieces, created in collaboration with Baldwin[®] Hardware, for a look that will never go out of style.

BALDWIN



Hinged & Bifold Patio Door Handle
Virago



Sliding & Multi-Slide Patio Door Handle
Ambrose



Multi-Slide Patio Door Handle^{5,6}

Finishes:



Matte Black Oil-Rubbed Bronze Satin Nickel Satin Brass

Essential Collection

Elevate your style and transform a home with elegant selections.



Hinged & Bifold Patio Door Handle
Standard



Sliding Patio Door Handle
Standard



Multi-Slide Patio Door Handle^{5,6}

Finishes:



Champagne White Brown Matte Black



Oil-Rubbed Bronze Satin Nickel Satin Brass

Additional hardware collections available. Visit PellaADM.com for more information.

^{5,6} See back cover for disclosures.

Colors

Wood Types

Choose the wood species that best complements your project's interior.

Custom solutions:



Pine



Douglas Fir



Mahogany



White Oak



Red Oak



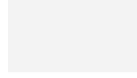
Cherry



Maple

Prefinished Pine Interior Colors

Custom interior finishes, unfinished or primed and ready-to-paint are also available.



White



Bright White



Linen White



Natural Stain



Golden Oak Stain



Early American Stain



Provincial Stain



Dark Mahogany Stain



Charcoal Stain



Black Stain

Extruded Aluminum-Clad Exterior Colors

Our low-maintenance EnduraClad® exterior finish resists fading. Take durability one step further with EnduraClad Plus which also resists chalking and corrosion.⁷



Black



White



Brown



Fossil



Iron Ore



Portobello



Putty



Almond



Classic White



Brick Red



Hartford Green



Pearl Gray



Soft Linen



Satin Steel



Matte Gray



Wolf Gray



Spice Red



Sage



Frost Blue



Blue Ash



Custom colors are also available.

Screens

Rolscreen®

Rolscreen soft-closing retractable screens roll out of sight when not in use. Available on casement windows.

Integrated Rolscreen®

A concealed retractable screen that moves seamlessly with the sash of a single- or double-hung window – appearing when you open the window and rolling out of sight when you close it.

TuffScreen® by Phifer®

The TuffScreen® is 2.5x stronger than a standard screen.⁸ It is tear, puncture and damage resistant, standing up to pets, children and harsh weather. Available on sliding patio doors.

*All trademarks are property of their respective owners

Flat

InView™ screens are clearer than conventional screens and come standard.



The Best Limited Lifetime Warranty in the Industry

We know your reputation matters and you stake your reputation on quality, dependable products. That's why we have the best limited lifetime warranty in the industry for wood windows and patio doors.²

¹ Some Pella products may not meet ENERGY STAR® guidelines in Canada. For more information, contact your local Pella sales representative or go to energystar.gc.ca.

² Based on comparing written limited warranties of leading national wood window and wood patio door brands. See written limited warranty for details, including exceptions and limitations, at pella.com/warranty or contact Pella Customer Service.

³ Ratings are contingent on product configurations.

⁴ Color-matched to your product's interior and exterior color. Offering may vary by product type. See Pella sales representative for details.

⁵ Flush multi-slide handle is a Pella exclusive design.

⁶ Flush multi-slide handle is not available in Champagne.

⁷ EnduraClad Plus protective finish is not available with all colors. See your local Pella sales representative for availability.

⁸ Based on the composite results of a 5-panel strength analysis comparing TuffScreen and standard screening.

PELLA® RESERVE™ – TRADITIONAL
WOOD DOUBLE-HUNG WINDOW

JUMP TO..



PELLA® RESERVE™ – TRADITIONAL
Wood Double-Hung Window

3.99 ★★★★★ [369 Reviews](#)

Create the traditional look your historic renovation, new construction or replacement project requires with a traditional wood or aluminum-clad wood double-hung window. This Pella Reserve window proves our uncompromised attention to detail with historic putty profiles, through-stile construction, innovative grilles and authentic spoon-lock hardware.

- Winner of 2019 Most Innovative Window from Window and Door Magazine with optional Integrated Rolscreen® retractable screen that appears when you open the window and rolls away when you close it.
- Pella Reserve products have been reviewed and approved on a case-by-case basis by the National Park Service for use on projects with historic tax credits.
- Innovative sash lugs can be added to the exterior to create the authentic look, while maintaining modern tilting functionality for easy cleaning.

PURCHASING OPTIONS ⓘ

Based on [50323](#)

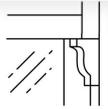
 **Free In-Home Consultation**
Available

SCHEDULE CONSULTATION

 **Visit your Pella Showroom**
Available at [Pella Window and Door Showroom of Des Moines, IA](#)
1.30 miles from you

GET DIRECTIONS

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Historic Architectural Integrity

Design Options

MATERIALS



Pella Reserve products offers exquisite wood types to enhance your home's design. [Learn more about materials.](#) And, we stand behind them with a [Limited Lifetime warranty.](#)

Materials

Custom Materials

Materials



Pine



Unfinished Mahogany



Douglas Fir

TIPS FOR PROS

Materials

Pella's EnduraGuard® wood protection formula has three active ingredients. This powerful combination, together with our immersion-treatment method, helps ensure strong protection on every exterior wood surface of our products. The result is advanced protection against the effects of moisture, decay and stains from mold and mildew.

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Add your home



See how Pella windows look on your home

Transform your exterior with our instant window visualizer. No waiting, no wondering.

Try with your place 

Already uploaded? [Log in](#)

Downloads & Specifications

Design, Performance & Size Tables

Hover

-  [Complete Product Information](#)
-  [Test Report Information](#)
-  [Complete Product Information - Precision Fit](#)
-  [Complete Product Information - HIG](#)

Specifications

-  [AIA Masterspec](#)
-  [Detailed Product Description - Precision Fit](#)
-  [Detailed Product Description](#)
-  [3-part CSI Format](#)
-  [Detailed Product Description](#)
-  [Detailed Product Description - Precision Fit](#)
-  [3-part CSI Format](#)
-  [Detailed Product Description - HIG](#)
-  [3-part CSI Format](#)

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2D Cross Section

-  [Unit Sections - Precision Fit](#)
-  [Unit Sections - Precision Fit](#)
-  [Unit Sections](#)
-  [Unit Sections](#)
-  [Unit Sections - HIG](#)
-  [Unit Sections - HIG](#)
-  [Unit Sections - Precision Fit](#)
-  [Unit Sections - Precision Fit](#)
-  [Unit Section](#)
-  [Unit Sections](#)

2D Elevation

-  [Size Tables - Fixed](#)
-  [Size Tables - Fixed](#)
-  [Size Tables - Cottage](#)
-  [Size Tables - Cottage](#)
-  [Size Table - Equal Sash](#)
-  [Size Table - Equal Sash](#)
-  [Size Tables - Replacement](#)
-  [Size Tables - Replacement](#)
-  [Size Tables](#)
-  [Size Tables](#)

3D & BIM

-  [Sketch-Up](#)
-  [Vent, Fixed and Transom](#)

Product Literature

-  [Pro Window & Door Guide](#)
-  [Spec Sheet - Pella Reserve - Traditional Windows & Patio Doors](#)

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Get your hands on the fastest, most labor efficient wood window installation system with uncompromising quality.⁴⁶ Add it to your next project at no added cost.

TRY STEADY SET



RESERVE - TRADITIONAL DOUBLE-HUNG WINDOW SPECS & INSTALL DETAILS

- Exudes the tenets of traditional design with putty profiles, through-stile construction and Integral Light Technology® grilles
- Performance rating of CW40-CW50 and STC of 28-35
- Available in sizes up to 48" x 96" in 1/8" increments, with equal, cottage and custom splits
- Optional self-storing Integrated Rolscreen appears when the double-hung window is opened and rolls away when it is closed
- Installation and frame options include [Steady Set](#), Fold-out Fin, Block Frame and EnduraClad Exterior Trim/Brickmould

Frame

- Components are assembled with screws, staples and concealed corner locks.
- Overall frame depth is 5" (127mm) for a wall depth of 3-11/16" (94mm).
- Optional factory applied jamb extensions available between 3-13/16" (97mm) and 9-3/16" (233mm).
- Vinyl jamb liner with wood / clad inserts.
- Optional factory installed fold-out installation fins with flexible fin corners. Optional factory-applied EnduraClad® exterior trim.

Sash

- Corners mortised and tenoned, glued and secured with metal fasteners.
- Sash thickness is 1-7/8" (47mm).
- Upper sash has surface-mounted wash locks for easy tilt-in cleaning. Arch Head units have no wash locks
- Lower sash has concealed wash locks in lower check rail allowing sash to tilt in for easy cleaning.
- Simulated-Hung units have non-operable upper and lower sashes
- Sash exterior profile is ogee or putty glaze, interior profile is ogee.

Exterior

- Aluminum clad exteriors shall be finished with EnduraClad® protective finish, in a multi-step, baked-on finish.
- Aluminum clad exteriors shall be finished with EnduraClad Plus protective finish with 70% fluoropolymer resin in a multi-step, baked-on finish.

Hardware

- Galvanized block-and-tackle balances are connected to self-locking balance shoes which are connected to the sashes using zinc die cast terminals and concealed within the frame.
- Sash lock- standard (cam-action, historic spoon-style, air-conditioner lock)
- Simulated lock - Single-piece lock ties upper and lower sash together. When removed lower sash becomes operable
- Two sash locks on units with frame width 37" and greater. Optional sash lift furnished for field installation. Two lifts on units with frame width 37" and greater.

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the upper sash is opened past 18". InView Screen cloth, black vinyl-coated 18/18 mesh fiberglass screen cloth complying with ASTM D 3656 and the performance requirements of SMA 1201.

Other Screens

- InView™ screens - black vinyl-coated 18/18 mesh fiberglass screen cloth complying with the performance requirements of SMA 1201. Full screen spreader bar placed on units > 37" width or > 65" height.

Pella Reserve Reviews

SEE ALL REVIEWS

December 15, 2023

★★★★☆

Why Choose Pella

We already had Pella windows throughout the house and wanted to match.

Memorable Aspects

It was disappointing that our doors that we really wanted (blinds inside panes) were not available as out swinging doors.

Melanie C.



Pella Reserve Double-Hung Window Inspiration



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Other Pella Reserve - Traditional Products



PELLA® RESERVE™ - TRADITIONAL

Arched

Talk To A Pella Rep For Pricing

[VIEW DETAILS](#)

Wood Window Tips & Advice



Modern Black Windows Elevate Natural Light and Design in Windsor, Colorado

Energy-efficient black windows highlight clean lines and bright, open feel of this modern home.



Wood Windows Add Timeless Beauty to 1639 Cape Cod Home

Wood window innovations perfectly blend modern comfort with traditional style.

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Pella® Reserve™ - Traditional

Wood

Historical Authenticity

20 Exterior Colors

(Currently Viewing)

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