## Architect Series® Reserve™ Push-Out French Casement

### Size and Performance Data

<table>
<thead>
<tr>
<th>Sizes</th>
<th>Clad</th>
<th>Wood</th>
</tr>
</thead>
<tbody>
<tr>
<td>Standard Vent Sizes</td>
<td>●</td>
<td>●</td>
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<tr>
<td>Special Sizes Available</td>
<td>●</td>
<td>●</td>
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### Performance

<table>
<thead>
<tr>
<th>Performance</th>
<th>Clad</th>
<th>Wood</th>
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</thead>
<tbody>
<tr>
<td>Meets or Exceeds AAMA/WDMA Ratings</td>
<td>R20 Hallmark Certified</td>
<td>R20 Hallmark Certified</td>
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<tr>
<td>Air Infiltration (cfm/ft² of frame @ 1.57 psf wind pressure)</td>
<td>0.05</td>
<td>0.05</td>
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<tr>
<td>Water Resistance</td>
<td>3.0 psf</td>
<td>3.0 psf</td>
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<tr>
<td>Design Pressure</td>
<td>20 psf</td>
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### Other Performance Criteria

<table>
<thead>
<tr>
<th>Forced Entry Resistance Level (Minimum Security Grade)</th>
<th>Clad</th>
<th>Wood</th>
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</thead>
<tbody>
<tr>
<td>10</td>
<td></td>
<td>10</td>
</tr>
</tbody>
</table>

(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. Values shown are for standard and special sizes; Custom sizes may not have the same values. Contact your local sales representative for complete information.

(2) The higher the level, the greater the product’s ability to resist forced entry.
# Architect Series® Reserve™ Push-Out French Casement

## Features and Options

<table>
<thead>
<tr>
<th>Standard</th>
<th>Options / Upgrades</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Glazing</strong></td>
<td></td>
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<tr>
<td>Glazing Type</td>
<td>Dual-Pane Insulating Glass –</td>
</tr>
<tr>
<td><strong>Insulated Glass Options/Low-E Types</strong></td>
<td>SunDefense™ Low-E</td>
</tr>
<tr>
<td>Advanced Low-E</td>
<td>AdvancedComfort Low-E</td>
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<tr>
<td></td>
<td>NaturalSun Low-E</td>
</tr>
<tr>
<td></td>
<td>Clear (no Low-E coating)</td>
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<tr>
<td><strong>Additional Glass Options</strong></td>
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<tr>
<td>Annealed Glass</td>
<td>Tempered Glass</td>
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<tr>
<td></td>
<td>Obscure Glass 1</td>
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<tr>
<td></td>
<td>Tinted Glass (Bronze, Gray and Green)</td>
</tr>
<tr>
<td></td>
<td>Custom</td>
</tr>
<tr>
<td><strong>Gas Fill/High Altitude</strong></td>
<td></td>
</tr>
<tr>
<td>Argon</td>
<td>High altitude (with air)</td>
</tr>
<tr>
<td><strong>Wood Types</strong></td>
<td>Pine Mahogany, Douglas Fir</td>
</tr>
<tr>
<td><strong>Exterior</strong></td>
<td></td>
</tr>
<tr>
<td>Exterior Sash Profile</td>
<td>Ogee - clad, Putty - wood Putty - clad</td>
</tr>
<tr>
<td>Exterior Finish</td>
<td>EnduraClad® protective finish EnduraClad Plus protective finish, Factory Primed Pine wood exterior, Unfinished Mahogany wood exterior</td>
</tr>
<tr>
<td><strong>Cladding Colors</strong></td>
<td>27 Standard colors Custom Colors</td>
</tr>
<tr>
<td><strong>Interior</strong></td>
<td></td>
</tr>
<tr>
<td>Interior Sash Profile</td>
<td>Ogee –</td>
</tr>
<tr>
<td>Interior Finish</td>
<td>Unfinished wood Factory primed 1, Factory prefinished paint 2, Factory prefinished stain</td>
</tr>
<tr>
<td><strong>Hardware</strong></td>
<td></td>
</tr>
<tr>
<td>Champagne, White or Brown</td>
<td>Bright Brass, Satin Nickel or Oil-Rubbed Bronze</td>
</tr>
<tr>
<td><strong>Sash Locks</strong></td>
<td>Multi-point® System –</td>
</tr>
<tr>
<td><strong>Grilles</strong></td>
<td>Integral Light Technology® Grilles – Traditional, Prairie, Top Row, Cross, New England, Victorian, Simulated French, Custom</td>
</tr>
<tr>
<td>Roomside Removable Grilles</td>
<td>– Traditional, Prairie, Top Row, Cross, New England, Victorian, Custom</td>
</tr>
<tr>
<td>Grilles-Between-the-Glass</td>
<td>– Traditional, Prairie, Cross, Top Row 1, Custom-Equally Divided</td>
</tr>
<tr>
<td><strong>Screens</strong></td>
<td>InView™ or Vivid View® screens</td>
</tr>
</tbody>
</table>

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

(2) Not available on Mahogany and Douglas Fir interiors.
Architect Series® Reserve™ Push-Out French Casement

Grille Profiles

Integral Light Technology®

Putty and Ogee Glaze Grilles
Clad Exterior - Wood Interior

Putty and Ogee Glaze Grilles
Wood Exterior - Wood Interior

Ogee Glaze Grilles
Clad Exterior - Wood Interior

Contoured Aluminum - Grilles-Between-the-Glass

3/4" Contoured GBG

Removable Interior Pine Grilles

3/4" Traditional RMB
1 1/4" Traditional RMB
2" Traditional RMB
1 1/4" Colonial RMB
2" Colonial RMB

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

Wood exterior ILT grilles available in Pine or Mahogany to match complete unit.
Architect Series® Reserve™ Push-Out French Casement

Grille Patterns

Integral Light Technology® Grille Patterns

Prairie Lite Patterns

9-Lite

12-Lite

14-Lite

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

9-Lite
- Available in all standard and special sizes.

12-Lite
- Available in units ≥ 2’0” in width and ≥ 2’0” in height.

14-Lite
- Available in units ≥ 2’0” in width and ≥ 3’0” in height.

Other Available ILT Grille Patterns

Cross

New England

Top Row

Victorian

For traditional patterns, see size tables.

Grilles-Between-the-Glass Patterns

Prairie Lite Patterns

9-Lite

Other Available GBG Patterns

Cross

Top Row

VG = Visible Glass

Lite dimensions noted can vary.

Custom configurations are also available, for details contact your local Pella sales representative.
Size Tables

Vent and Fixed Units

<table>
<thead>
<tr>
<th>Opening</th>
<th>Frame</th>
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<tbody>
<tr>
<td>3' 6&quot; x 2' 11&quot;</td>
<td>3' 6&quot;</td>
</tr>
<tr>
<td>3' 10&quot; x 2' 11&quot;</td>
<td>3' 10&quot;</td>
</tr>
<tr>
<td>4' 2&quot; x 2' 11&quot;</td>
<td>4' 2&quot;</td>
</tr>
<tr>
<td>4' 10&quot; x 2' 11&quot;</td>
<td>4' 10&quot;</td>
</tr>
</tbody>
</table>

Frame Dimensions*

<table>
<thead>
<tr>
<th></th>
<th>Minimum</th>
<th>Maximum</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vent</td>
<td>36&quot; W x 22&quot; H</td>
<td>60&quot; W x 77&quot; H</td>
</tr>
</tbody>
</table>

Frame Width cannot exceed Frame Height x 2.

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.

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.

You should consult your local building code to ensure products with Rolscreens meet egress requirements.

Not to scale.
Traditional grille patterns shown. Refer to grille section for additional patterns and profiles.
Contact your local Pella representative for the availability of custom sizes smaller or larger than the parameters shown.
<table>
<thead>
<tr>
<th>Unit</th>
<th>Egress</th>
<th>Clear Opening</th>
<th>Vent Area Ft²</th>
<th>Visible Glass Ft²</th>
<th>Frame Area Ft²</th>
<th>Performance Class &amp; Grade</th>
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<tr>
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<td>Height (Inches)</td>
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<td>24.6</td>
<td>9.8</td>
</tr>
</tbody>
</table>

**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.

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.

You should consult your local building code to ensure products with Rolscreens meet egress requirements.

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(1) Maximum performance when glazed with the appropriate glass thickness. Refer to the Product Performance section for more information.

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

- Select woods, immersion treated with Pella’s EnduraGuard® wood protection formula in accordance with WDMA 1.S-4. The EnduraGuard formula includes three active ingredients for protection against the effect of moisture, decay, stains from mold and mildew. Plus, an additional ingredient adds protection against termite damage.
- Interior exposed surfaces are [pine] [mahogany] [Douglas fir] (standard rectangular units only). Any curved member may have visible finger-jointed surfaces.
- Exterior surfaces are clad with aluminum.
- Overall frame depth is 5" (127mm) for a wall depth of 3-11/16" (94mm).
- Optional factory-applied jamb extensions available between 4-9/16" (116mm) and 7-3/16" (183mm) wall depths.

Sash

- Select woods, immersion treated with Pella’s EnduraGuard® wood protection formula in accordance with WDMA 1.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] (standard rectangular units only). Any curved member may have visible finger-jointed surfaces.
- Exterior surfaces are clad with aluminum, lap-jointed and sealed.
- Corners mitered and tenoned, glued and secured with metal fasteners.
- Sash thickness is [1-13/16" (46mm) for 11/16"] [1-11/16" (43mm) for 9/16"] [2-1/8" (54mm) for 1"] glazings.
- Exterior sash profile is [ogee] [putty glaze], interior sash profile is ogee.

Weatherstripping

- Dual weatherstripping.
  - A foam filled close cell sheeted weatherstrip on the full frame perimeter is compressed between frame and sash for positive seal on all four sides.
  - Secondary leaf-type weatherstrip between edge of sash and frame.

Glazing System

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

Exterior

- Exterior aluminum surfaces are finished with EnduraClad® multi-stage finish system.
  - Color is [Standard] [custom] or -
- Exterior aluminum surfaces are finished with EnduraClad Plus 70% fluoropolymer-based multi-stage finish system.
  - Color is [Standard] [custom] or -
- Aluminum clad exteriors shall be finished with an anodized protective finish.
  - Color is [Clear] [Light Bronze] [Dark Bronze] [Black] [Custom].

Interior

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

Hardware

- Multi-point lock system—A dual handle locking system operates multiple locking points around the sash.
- Finish of lock handle is [baked enamel] [Champagne] [White] [Brown] [Bright Brass] [Satin Nickel] [Oil-Rubbed Bronze]. All vent units are available with left- or right-hand hinging.
- Hinges are silver anodized aluminum exterior butt hinges.
- Optional historical visible stay bar available in [Bright Brass] [Satin Nickel] [Oil-Rubbed Bronze].

Optional Products

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]].
  - Exterior grilles are [5/8" putty profile] [7/8" [putty] [ogee profile] [1-1/4" [putty] [ogee profile] [2" ogee profile] that are extruded aluminum.
  - Patterns are [Traditional] [Prairie] [Top Row] [Cross] [New England] [Victorian] [Simulated French].
  - Insulating glass contains non-glare spacer between the panes of glass.
  - Bars are adhered to both sides of the insulating glass with VHB acrylic adhesive tape and aligned with the non-glare spacer.

- Grilles-Between-the-Glass
  - Insulating glass contains 3/4" contoured aluminum grilles permanently installed between two panes of glass.
  - Patterns are [Traditional] [Prairie] [Cross] [Top Row] [Custom - Equally Divided].
  - Interior color is [White] [Tan] [Brown] [Putty] [Black] [Morning Sky Gray] [Ivory] [Sand Dune] [Harvest] [Cordovan] [Brickstone].
  - Exterior color is [Standard] or -

- Roomside Removable Grilles
  - [[3/4"] [1-1/4"] [2"] [Regular] [1-1/4"] [2"] Colonial] profile, with [Traditional] [Prairie] patterns that are removable solid pine wood bars steel-pinned at joints and fitted to sash with steel clips and tacks.
  - Interior [unfinished, ready for site finishing] [factory primed] [Pine: Factory-prefinished [paint] [stain]].
  - Exterior [unfinished, ready for site finishing] [factory primed] [finish color matched to exterior cladding].

Dual Hinged In-Swing Wood Screens

- InView™ Fiberglass Screen
  - Vinyl-coated 18/18 mesh fiberglass screen cloth complying with SMA 1201, set in a wood frame fitted to inside of window, supplied complete with all necessary hardware.
  - Screen frame interior exposed surfaces are [pine] [mahogany] [Douglas fir].
  - Screen hardware available in [Bright Brass] [Satin Nickel] [Oil-Rubbed Bronze].

- Vivid View® Screen
  - PVDF 21/17 mesh, minimum 78 percent light transmissivity screen, set in a wood frame fitted to inside of window, supplied complete with all necessary hardware.
  - Screen frame interior exposed surfaces are [pine] [mahogany] [Douglas fir].
  - Screen hardware available in [Bright Brass] [Satin Nickel] [Oil-Rubbed Bronze].

1. Insulating glass with argon is Low-E coated (except high altitude). All other insulating glass (including high altitude Low-E) is air-filled.
2. Contact your local Pella sales representative for current color options.
3. Available in clear, Low-E and obscure insulating glass.
4. 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.
5. Appearance of exterior grille color will vary depending on Low-E coating on glass.
6. Minimum frame depth required for use with Dual Hinged In-Swing wood screens is 5-1/8" (130 mm).
Detailed Product Description - Wood Exterior

Frame

- Select woods, 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 [Pine] (Mahogany) (standard rectangular windows only). Any curved member may have visible finger-jointed surfaces.
- Exterior surfaces are [Pine: primed] [Mahogany: [primed] [ready-to-stain]]
- Overall frame depth is 4-3/8” (111 mm) for a wall depth of 4-3/16” (106 mm)
- Optional factory-applied jamb extensions available between 4-9/16” (116 mm) and 7-3/16” (183 mm) wall depths, with Pella’s standard wood exterior trim.

Sash

- Select woods, 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 [Pine] (Mahogany) (standard rectangular windows only). Any curved member may have visible finger-jointed surfaces.
- Exterior surfaces are [Pine: primed] [Mahogany: [primed] [ready-to-stain]]
- Corners mortised and tenoned, glued and secured with metal fasteners.
- Sash thickness is 1-13/16” (46 mm).
- Interior sash profile is putty glaze, interior sash profile is ogee.

Weatherstripping

- Dual weatherstripping.
  - A foam filled close cell sheathed weatherstrip on the full frame perimeter is compressed between frame and sash for positive seal on all four sides.
  - Secondary leaf-type weatherstrip between edge of sash and frame.

Glazing System

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

Interior

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

Hardware

- Multi-point lock system—A dual handle locking system operates multiple locking points around the sash.
- Finish of lock handle is [baked enamel] [Champagne] [White] [Brown] [Bright Brass] [Satin Nickel] [Oil-Rubbed Bronze]. All vent units are available with left- or right-hand hinging.
- Hinges are silver anodized aluminum exterior butt hinges.
- Optional historical visible stay bar available in [Bright Brass] [Satin Nickel] [Oil-Rubbed Bronze].

Optional Products

Grilles

- Integral Light Technology®
  - Interior grilles are [5/8”] [7/8”] [1-1/4”] [2”] [2”] ogee profile that are solid [pine] [mahogany]. Interior surfaces are [unfinished, ready for site finishing] [factory primed] [pine: factory prefinished [paint] [stain]].
  - Exterior grilles are solid [5/8” putty profile] [7/8” putty] [ogee] profile [1-1/4” putty] [ogee] profile [2” ogee profile] [2” ogee 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] [Cross] [New England] [Victorian] [Simulated French].
  - 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-Glass
    - Insulating glass contains 3/4” contoured aluminum grilles permanently installed between two panes of glass.
    - Patterns are [Traditional] [Prairie] [Cross] [Top Row] [Custom – Equally Divided].
    - Interior color is [White] [Tan] [Brown] [Putty] [Black] [Morning Sky Gray] [Ivory] [Sand Dune] [Harvest] [Cordovan] [Brickstone].
    - Exterior color is [standard].
  - Roomside Removable Grilles
  - Interior [unfinished, ready for site finishing] [factory-primed] [factory prefinished [Pine: Factory prefinished [paint] [stain]].
  - Exterior [unfinished, ready for site finishing] [factory-primed] [finish color matched to exterior].
  - When the Exterior is Pine and the interior finish is unfinished then the interior RMB grille is unfinished or prefinished white. If the interior finished is stained then RMB grille stained to match.
  - When the exterior is Mahogany then RMB is not an option.

Dual Hinged In-Swing Wood Screens

- InView™ Fiberglass Screen
  - Vinyl-coated 18/10 mesh fiberglass screen cloth complying with WDMA I.S.-4, set in a wood frame fitted to inside of window, supplied complete with all necessary hardware.
  - Screen frame interior exposed surfaces are [pine] [mahogany] [Douglas fir].
  - Screen hardware available in [Bright Brass] [Satin Nickel] [Oil-Rubbed Bronze].
  - Vivid View® Screen
    - PVDf 21/17 mesh, minimum 78 percent light transmissivity screen, set in a wood frame fitted to inside of window, supplied complete with all necessary hardware.
    - Screen frame interior exposed surfaces are [pine] [mahogany] [Douglas fir].
    - Screen hardware available in [Bright Brass] [Satin Nickel] [Oil-Rubbed Bronze].

(1) Insulating glass with argon is Low-E coated. All other insulating glass is air-filled.
(2) Available in clear, Low-E and obscure insulating glass.
(3) Contact your local Pella sales representative for current color options.
(4) 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.
(5) Appearance of exterior grille color will vary depending on Low-E coating on glass.
(6) Minimum frame depth required for use with Dual Hinged In-Swing wood screens is 5-7/8” (149 mm).
Architect Series® Reserve™ Push-Out French Casement

Unit Sections - Aluminum-Clad Exterior

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