Product Selection Guide

Size and Performance Data ................................................................. W-OSFCM-2
Features and Options ................................................................. W-OSFCM-3
Grille Types .................................................................................. W-OSFCM-4
Typical Grille Patterns ................................................................. W-OSFCM-5
Size Tables
Design Data .................................................................................. W-OSFCM-7
Detailed Product Descriptions
   Clad ................................................................................... W-OSFCM-8
   Wood ................................................................................ W-OSFCM-9
Unit Sections
   Clad ................................................................................... W-OSFCM-10
   Wood ................................................................................ W-OSFCM-11

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.
## Architect Series® Reserve™ Out-Swing French Casement Window

### 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>
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### Performance

<table>
<thead>
<tr>
<th>Performance Criteria</th>
<th>Clad</th>
<th>Wood</th>
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<tbody>
<tr>
<td>Meets or Exceeds AAMA/WDMA Ratings</td>
<td>R30 Hallmark Certified</td>
<td>R30 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>4.5 psf</td>
<td>4.5 psf</td>
</tr>
<tr>
<td>Design Pressure</td>
<td>30 psf</td>
<td>30 psf</td>
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</table>

### Other Performance Criteria

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

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(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™ Out-Swing French Casement Window**

**Features and Options**

<table>
<thead>
<tr>
<th>Standard</th>
<th>Options / Upgrades</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Glazing</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Glazing Type</strong></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>
</tr>
<tr>
<td>NaturalSun Low-E</td>
<td>Clear (no Low-E coating)</td>
</tr>
<tr>
<td><strong>Additional Glass Options</strong></td>
<td>Tempered Glass</td>
</tr>
<tr>
<td>Annealed Glass</td>
<td>Obscure Glass</td>
</tr>
<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>Argon 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><strong>Exterior Sash Profile</strong></td>
<td>Ogee - clad, Putty - wood Putty - clad</td>
</tr>
<tr>
<td><strong>Exterior Finish</strong></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><strong>Interior Sash Profile</strong></td>
<td>Ogee –</td>
</tr>
<tr>
<td><strong>Interior Finish</strong></td>
<td>Unfinished wood Factory primed₂, Factory prefinished paint₂, Factory prefinished stain</td>
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<tr>
<td><strong>Hardware</strong></td>
<td>Champagne, White or Brown 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>Hinging</strong></td>
<td>Stainless Steel –</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><strong>Roomside Removable Grilles</strong></td>
<td>– Traditional, Prairie, Top Row, Cross, New England, Victorian, Custom</td>
</tr>
<tr>
<td><strong>Grilles-Between-the-Glass</strong></td>
<td>– Traditional, Prairie, Cross, Top Row₁, Custom-Equally Divided</td>
</tr>
<tr>
<td><strong>Screens</strong></td>
<td>– InView™ or Vivid View® screens</td>
</tr>
</tbody>
</table>

(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™ Out-Swing French Casement Window

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

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™ Out-Swing French Casement Window

Grille Patterns

**Integral Light Technology® Grilles**

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

- Cross
  - Standard visible glass to separator bar dimension = one-quarter of total visible glass height.
- New England
  - Standard visible glass to separator bar = half of total visible glass height.
- Top Row
  - Standard visible glass to separator bar = 14” or half of total visible glass height, whichever is smaller.

**Grilles-Between-the-Glass**

| 9-Lite Prairie | Cross | Top Row |

- Cross
  - Available for units with frame heights ≥ 17”.
  - Standard visible glass to separator bar = 1/4 of total visible glass height.
- Top Row
  - Standard visible glass to separator bar = 14” for frame heights > 35”.
  - Standard visible glass to separator bar = 12” for 35” frame heights and optional for 41” frame height.
  - Separator bar at 12” or 16” optional for frames heights > 41”.

For traditional patterns, see size tables.

VG = Visible Glass
Lite dimensions noted can vary.
Custom configurations are also available, for details contact your local Pella sales representative.
## Architect Series® Reserve™ Out-Swing French Casement Window

### Size Tables - Wood and Aluminum-Clad Exteriors

<table>
<thead>
<tr>
<th>Opening</th>
<th>Vent Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>3' 6&quot; × 3' 6&quot;</td>
<td>(1 086)</td>
</tr>
<tr>
<td>3' 10½&quot; × 3' 10½&quot;</td>
<td>(1 187)</td>
</tr>
<tr>
<td>4' 2½&quot; × 4' 2½&quot;</td>
<td>(1 289)</td>
</tr>
<tr>
<td>4' 10½&quot; × 4' 10½&quot;</td>
<td>(1 492)</td>
</tr>
</tbody>
</table>

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.

Units ≤ 40" width will receive butt (exterior) hinges. Units > 40" width will receive concealed hinges. Units under 45" of total width will only open to a maximum of 58 degrees.

**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 for clear opening dimensions.

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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.

Units ≤ 40" width will receive butt (exterior) hinges. Units > 40" width will receive concealed hinges. Units under 45" of total width will only open to a maximum of 58 degrees.
# Architect Series® Reserve™ Out-Swing French Casement Window

## Design Data - Wood and Aluminum-Clad Exteriors

<table>
<thead>
<tr>
<th>Unit</th>
<th>Egress</th>
<th>Clear Opening</th>
<th>Vent Area</th>
<th>Visible Glass Area</th>
<th>Frame Area</th>
<th>Performance Class &amp; Grade</th>
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<tbody>
<tr>
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<td>Width (Inches)</td>
<td>Height (Inches)</td>
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<td>Ft²</td>
<td>Ft²</td>
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<td>42 2/3</td>
<td>35 5/7</td>
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<td>67 5/7</td>
<td>23.1</td>
<td>23.1</td>
<td>12.0</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.

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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.

Units under 45” of total width will only open to a maximum of 58 degrees.

Units ≤ 40” width will receive butt (exterior) hinges. Units > 40” width will receive concealed hinges.
Exterior [unfinished, ready for site finishing] [factory-primed] [finish
screen frame finish is baked enamel, [Champagne] [White] [Brown].
Operator linkage, hinge slide, and hinge arms are 300 series stainless
screen frame finish is baked enamel, [Champagne] [White] [Brown].
Color is [Standard
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 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.
Overall frame depth is 5” (127mm) for a wall depth of 3-1/16" (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 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.

operator linkage, hinge slide, and hinge arms are 300 series stainless
screen frame finish is baked enamel, [Champagne] [White] [Brown].
Color is [Standard
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 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 and sealed.
Corners mortised and tenoned, glued and secured with metal fasteners.
Sash thickness is 1-13/16“ (46mm) for 11/16” glazings.
Exterior sash profile is [ogee] [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] [Ivory] [Sand Dune] [Harvest] [Cordovan] [Brickstone].
Divided
Divided
[advanced-low-e coated] [advanced-low-e coated with argon] [SunDefense™ Low-E with Argon] [AdvancedComfort Low-E] [NaturalSun Low-E] [Ivory] [Sand Dune] [Harvest] [Cordovan] [Brickstone].
Divided
Divided

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
Roto operator assembly
Steel worm gear sash operator with hardened gears.
Operator base is zinc die cast with painted finish.
Operator linkage, hinge slide, and hinge arms are 300 series stainless steel.
Hardware shall exceed 1,000 hours salt spray exposure per ASTM B 117.
Finish of integrated folding crank is [baked enamel, [Champagne] [White] [Brown]] [Bright Brass] [Satin Nickel] [Oil-Rubbed Bronze].
Multi-point lock system–A single handle locking system engages multiple locking points around the sash.
Lock handle finish is [baked enamel, [Champagne] [White] [Brown]] [Bright Brass] [Satin Nickel] [Oil-Rubbed Bronze].
Units under 45” of total width will only open to a maximum of 58 degrees.
Units ≤ 40” width will receive butt (exterior) hinges. Units > 40” width will receive concealed hinges.

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
  • 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].

screens
InView™ Screen
  • Vinyl-coated 18/18 mesh fiberglass screen cloth complying with SMA 1201, set in aluminum frame fitted to inside of window, supplied complete with all necessary hardware.
  • Screen frame finish is baked enamel, [Champagne] [White] [Brown].
  - or -
Vivid View® Screen
  • PVDF 21/17 mesh, minimum 78 percent light transmissivity screen, set in aluminum frame fitted to inside of window, supplied complete with all necessary hardware.
  • Screen frame finish is baked enamel, [Champagne] [White] [Brown].
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" (111mm) for a wall depth of 4-3/16" (106mm).
- Optional factory-applied jamb extensions available between 4-9/16" (116mm) and 7-3/16" (183mm) 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" (46mm).
- Exterior sash profile is 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] [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] [primed with one coat acrylic latex] [Pine: Factory prefinished [paint] [stain]].

Hardware
- Roto operator assembly
  - Steel worm gear sash operator with hardened gears.
  - Operator base is zinc die cast with painted finish.
  - Operator linkage, hinge slide, and hinge arms are 300 series stainless steel.
  - Hardware will exceed 1,000 hours salt spray exposure per ASTM B 117.
- Finish of integrated folding crank is [baked enamel, [Champagne] [White] [Brown]] [Bright Brass] [Satin Nickel] [Oil-Rubbed Bronze].
- Multi-point lock system - a single handle locking system operates positive-acting arms that engage multiple locking points around the sash.
- Lock handle finish is [baked enamel, [Champagne] [White] [Brown]] [Bright Brass] [Satin Nickel] [Oil-Rubbed Bronze].
- Units under 45" of total width will only open to a maximum of 58 degrees.
- Units ≤ 40" width will receive butt (exterior) hinges. Units > 40" width will receive concealed hinges.

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]. 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" ogee profile] [1-1/4” 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.
- Grilles-Between-the-Glass
  - Insulating glass contains 3/4” contoured aluminum grilles permanently installed between two panes of glass.
  - Patterns are [Traditional] [Prairie] [Top Row] [Cross] [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
  - [3/4"] [1-1/4"] [2"] Regular] [1-1/4”] [2”] 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].
  - 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.

Screens
- InView™ Screens
  - Vinyl-coated 18/18 mesh fiberglass screen cloth complying with SMA 1201, set in aluminum frame fitted to inside of window, supplied complete with all necessary hardware.
  - Screen frame finish is baked enamel, [Champagne] [White] [Brown].
- Vivid View® Screens
  - PVDF 21/17 mesh, minimum 78 percent light transmissivity screen, set in aluminum frame fitted to inside of window, supplied complete with all necessary hardware.
  - Screen frame finish is baked enamel, [Champagne] [White] [Brown].

(1) Insulating glass with argon is Low E coated. All other insulating glass is air-filled.
(2) Available in clear or Low-E insulating glass only. White exterior grille color is the only option available for clear 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.
Architect Series® Reserve™ Out-Swing French Casement Window

Unit Sections - Aluminum-Clad Exterior

Scale 3" = 1' 0"
All dimensions are approximate.
Architect Series® Reserve™ Out-Swing French Casement Window

Unit Sections - Wood Exterior

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