Our 1650 replacement double-hung window features **superior styling, handcrafted quality, and long-term performance**. Aesthetically pleasing beveled sash and eight exterior color options complement energy-efficient design options such as insulated dual-pane glass and heavy-duty weatherstripping to help set our 1650 double-hung replacement windows apart. These advanced engineering and aesthetic details that go into every 1650 double-hung make it the ideal replacement window for any remodeling or renovation project.

**PERFORMANCE FEATURES**

- Metal-reinforced meeting rail delivers superior strength and durability
- Interlocking sashes help reduce air infiltration
- True sloping sill optimizes water drainage and eliminates unsightly weep holes
- Warm-edge spacer system maximizes energy efficiency and improves seal performance of insulated glass units
- Inverted-coil balances with detent clip prevent sash from drifting, and provide smoother operation and lower operating force
Designed smarter, from the inside out

ENGINEERED TO PERFORM
- Multi-chamber mainframe design
- 3 ¼” frame depth
- ¼” dual-pane or ½” triple-pane insulated glass
- 3 frame styles available - finless, flange, fin
- Wood extension jambs available for 4 ½" and 6 ¾" wall depths

CONVENIENCE & STYLE
The 1650 features the following design details on every window:
- Beveled exterior profile
- Mortised recessed locks
- Balance channel covers
- Clarity Screen mesh
- Integral lift rails
- Tilt-in sashes

SAFETY & SECURITY FEATURES
- Push-button night latches keep the window secure even when partially opened, providing ventilation without sacrificing safety and security
- Dual-opposing locks create a stronger, safer seal
- Latching extruded half screen with Clarity Screen™ mesh offers 50% clearer view than standard fiberglass screen, allows fresh air in, and keeps pests out
- Optional Window Operating Control Device (WOCD) restricts sash opening and reduces the risk of accidental falls

MIN & MAX SIZING

<table>
<thead>
<tr>
<th>WIDTH</th>
<th>HEIGHT</th>
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<tbody>
<tr>
<td>14&quot;</td>
<td>36&quot;</td>
</tr>
<tr>
<td>15&quot;</td>
<td>37 ½&quot;</td>
</tr>
<tr>
<td>16 ¼&quot;</td>
<td>38&quot;</td>
</tr>
<tr>
<td>17 ½&quot;</td>
<td>48&quot;</td>
</tr>
<tr>
<td>48&quot;</td>
<td>96&quot;</td>
</tr>
</tbody>
</table>

*Available in ½” increments. DP upgrade required for any unit greater than 84” tall.

ENERGY-EFFICIENT FEATURES
- Our dual-pane or triple-pane insulated glass package options help save on heating and cooling costs while enhancing home comfort
- In cool weather, it provides outstanding thermal performance to keep interior glass surfaces closer to room temperature, eliminating cold spots near windows
- In warm weather, insulated glass reduces solar heat gain and minimizes interior glare
- Meets ENERGY STAR® requirements in all four climate zones

GLAZING TYPE U-VALUE SHGC

| Argon and Low-E glass                  | 0.27 | 0.28 |
| Argon and Low-E glass with grids      | 0.27 | 0.26 |
| Argon and HP Low-E glass              | 0.27 | 0.21 |
| Argon and HP Low-E glass with grids   | 0.27 | 0.19 |
| Argon and Low-E triple-pane glass     | 0.22 | 0.25 |
| Argon and Low-E triple-pane glass with grids | 0.22 | 0.22 |
| Foam-enhanced frame, Krypton and Low-E triple-pane glass | 0.17 | 0.22 |
| Foam-enhanced frame, Krypton and Low-E triple-pane glass with grids | 0.17 | 0.22 |
| Foam-enhanced frame, Low-E, and blinds-between-the-glass | 0.35 | 0.23 |

Note: all values based on standard 3/4” dual-pane IGU

SAFE & SECURITY FEATURES
- Push-button night latches keep the window secure even when partially opened, providing ventilation without sacrificing safety and security
- Dual-opposing locks create a stronger, safer seal
- Latching extruded half screen with Clarity Screen™ mesh offers 50% clearer view than standard fiberglass screen, allows fresh air in, and keeps pests out
- Optional Window Operating Control Device (WOCD) restricts sash opening and reduces the risk of accidental falls

GRID TYPES & SIZES
- ¼” flat grids-between-the-glass
- ½” flat grids-between-the-glass
- ⅜” sculptured grids-between-the-glass
- ¾” sculptured grids-between-the-glass
- 1” simulated divided light

BLINDS-BETWEEN-THE-GLASS*
- Light control and privacy
- Safe and convenient

COMMON GRID PATTERNS
- Colonial
- 9-Lite Perimeter
- 6-Lite Perimeter
- Diamond
- 11/16” sculptured grids
- 1” simulated divided light

VINYL/EXTRUDED COLORS
- White
- Almond
- Clay

LAMINATES‡
- Hillside Oak
- Natural Oak
- Cherry
- Bronze

EXTERIOR PAINT§
- Cream
- Almond
- Clay
- Silver
- Cocoa
- Forest Green
- Bronze
- Black

* Available in limited sizes and white only
† Clay not available with foam-enhanced mainframe or triple-pane glass
‡ Laminates available with ¼” flat or ⅜” sculptured grids only; woodgrain interiors available with white or almond extrusion only; bronze exterior available with white interior only
§ Exterior paint available with ⅜” sculptured grids only; not available with clay interior; silver and black not available with woodgrain interiors

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