1500 Vinyl Collection
Single Hung Impact Windows

Building choice into every view.
Relax. It’s a 1500 Vinyl Collection Impact Window. For homeowners, it means added protection. For builders, rest assured you’ll get the support you need — from a window line that meets tough coastal codes, and the company that builds them.

Frame Options

- Brickmould
- Beveled
- Flat

Window Anatomy

- Multi-chamber construction with fusion-welded sash and frame
- Sloped sill drains water away from home exterior
- Integral J-channel for simple, secure siding installation (optional double utility trim)

Protect your home

- Traditional or contemporary frame design
- Sizes to meet your needs
- Passes ASTM E1886/E1996 Large missile Impact Tests to secure your home
- Laminated glass with PVB inner layer to maintain seal in high-impact situations
- Egress Size: 3050SH, 4040SL

Color options

New exterior colors are on brickmould and flat casing only.
*Some restrictions may apply.

Grille types

Also available with no grilles.

GBG Grilles

SDL Grilles

Thermal Performance

1500 Impact Thermal Performance Summary

<table>
<thead>
<tr>
<th>Grille Type</th>
<th>U-factor</th>
<th>SHGC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Low-E impact</td>
<td>0.36</td>
<td>0.28</td>
</tr>
<tr>
<td>Low-ES impact</td>
<td>0.35</td>
<td>0.22</td>
</tr>
<tr>
<td>HP impact</td>
<td>0.32</td>
<td>0.28</td>
</tr>
<tr>
<td>HPES impact</td>
<td>0.31</td>
<td>0.21</td>
</tr>
<tr>
<td>Low-EZ+ impact</td>
<td>0.31</td>
<td>0.27</td>
</tr>
<tr>
<td>Low-EZ+ES impact</td>
<td>0.31</td>
<td>0.21</td>
</tr>
<tr>
<td>HP2+ impact</td>
<td>0.28</td>
<td>0.27</td>
</tr>
<tr>
<td>HP2+ES impact</td>
<td>0.28</td>
<td>0.21</td>
</tr>
<tr>
<td>Warm Edge Spacer (metal)</td>
<td>U Factor</td>
<td>SHGC</td>
</tr>
<tr>
<td>Low-E impact</td>
<td>0.35</td>
<td>0.28</td>
</tr>
<tr>
<td>Low-ES impact</td>
<td>0.35</td>
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</tr>
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<td>HP impact</td>
<td>0.31</td>
<td>0.28</td>
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<tr>
<td>HPES impact</td>
<td>0.31</td>
<td>0.21</td>
</tr>
<tr>
<td>Low-EZ+ES impact</td>
<td>0.30</td>
<td>0.21</td>
</tr>
<tr>
<td>HP2+ES impact</td>
<td>0.27</td>
<td>0.21</td>
</tr>
</tbody>
</table>
Window Highlights

**Laminated Glass**
Our impact glass uses technology similar to a car windshield with the glass bonded using heat and pressure to a PVB inner layer.

**Jamb Alignment Clips**
Aligns and holds frame in place during installation; enables one person to center smaller windows.

**Interlocking Sashes**
Sashes lock tightly together to help keep out intruders and inclement weather.

**Forced-Entry Resistant Locks**
Enhanced security locks meet tough AAMA forced entry requirements. Auto-lock* option available.

- Alignment clips
- Integral mull
- Double utility trim
- Integral J-channel
- 1/2” flange for block installs
- Drywall receiver and return
- Accessory grooves
- Protective construction film
Window Specs

FRAME
- 3 1/8” dual-wall brickmould frame depth
- 2 1/8” beveled frame depth
- 1 1/8” integral fin set back
- Optional 1/2” flush flange for block installs
- Optional 3/4” flat casing
- Optional double utility trim simplifies siding installation
- Custom, traditional and block sizing to meet your needs
- Integral J-pocket simplifies siding installations
- Interior/exterior accessory grooves
- Sloped sill for water management
- Screen clip Patent #: 61738783
- Optional 1/2” flush flange for block installs
- Optional 3/4” flat casing

SASH
- Interior glazed top glass
- Exterior glazed bottom glass
- Interlocking sash with dual pile weatherstripping
- Constant force coil balances
- Dual lift rails for easy operation
- Half screens (shipped separately)

GLASS
- Double: Low-E, Low-E2, Low-E2+, HP, HP2,
- HP2+, HP2+LE3, LE2+, HP2+ and HP2+LE3
- Optional Warm Edge+ spacers
- Configurable STC values up to 31
- Obstruct and rain options
- EZ Clean option

GRILLES
- GBG (Grilles Between Glass) ¾” Flat, 5/8” or 1” Sculptured
- SDL (Simulated Divided Light) 7/8” or 1 ¼” with Shadow Bar
- Colonial, Plaza, Prairie, Diamond, Gothic patterns available

LOCKS
- Standard forced-entry resistant cam lock
- Self-latching forced-entry resistant auto-lock option

PERFORMANCE CERTIFICATIONS
- FLORIDA APPROVED FL16103
- For a list of Ply Gem’s Florida approved products visit floridabuilding.org.
- Single hung FL16103
- Sliding FL16102
- Fixed FL16104

CANADIAN STANDARDS ASSOCIATION CERTIFIED

1500 Impact
NAFS/AAMA Industry Product Performance Testing Chart

<table>
<thead>
<tr>
<th>Product Type</th>
<th>Impact Test Unit Size (inches)</th>
<th>Overall Rating</th>
<th>Air Infiltration (scfm/ft)</th>
<th>Air Exfiltration (scfm/ft)</th>
<th>Water Pressure (psf)</th>
<th>Structural Pressure (psf)</th>
<th>Test Standard(s)</th>
<th>Florida Approval</th>
<th>TDI Approval</th>
</tr>
</thead>
<tbody>
<tr>
<td>Single Hung</td>
<td>38 x 77.125</td>
<td>H-LC50</td>
<td>0.11</td>
<td>0.05</td>
<td>7.52</td>
<td>+50/-60</td>
<td>AAMA 506-06, 08</td>
<td>FL16103</td>
<td>WIN-1771</td>
</tr>
<tr>
<td></td>
<td>52.125 x 62</td>
<td>H-LC50</td>
<td>0.28</td>
<td>0.19</td>
<td>7.52</td>
<td>+50/-60</td>
<td>AAMA 506-06, 08</td>
<td>FL16103</td>
<td>WIN-1771</td>
</tr>
<tr>
<td></td>
<td>52.125 x 71</td>
<td>H-LC50</td>
<td>0.28</td>
<td>0.19</td>
<td>7.52</td>
<td>+50/-50</td>
<td>AAMA 506-06, 08</td>
<td>FL16103</td>
<td>WIN-1771</td>
</tr>
<tr>
<td>Horizontal Slider (XO)</td>
<td>63 x 48</td>
<td>HS-LC50</td>
<td>0.08</td>
<td>0.07</td>
<td>7.52</td>
<td>+60/-60</td>
<td>AAMA 506-06, 08</td>
<td>FL16102</td>
<td>WIN-1768</td>
</tr>
<tr>
<td>Fixed Window</td>
<td>60 x 72</td>
<td>FW-LC59</td>
<td>0.00</td>
<td>0.00</td>
<td>12.11</td>
<td>+50/-60</td>
<td>AAMA 506-06, 08</td>
<td>FL16104</td>
<td>WIN-1768</td>
</tr>
</tbody>
</table>

Impact units require specified glazing material, impact laminated glass, hardware and reinforcements.

For more information, call 888-9PLYGEM.
1500Vinyl Collection
Impact Casement Windows

NEW CONSTRUCTION EAST

PlyGem®
WINDOWS & DOORS

IMPACT

MADE IN USA
ENERGY STAR®

Vinyl Collection
Impact Casement Windows
**Sturdy Construction**
Multi-chamber construction improves strength and thermal performance. Fusion-welded corners add strength and prevent air/water infiltration.

**Multi-point Locks**
Operate with a single handle for maximum security with minimum effort. Stainless steel lockbar for all standard sizes.

**Laminated Glass**
Our impact glass uses technology similar to a car windshield with the glass bonded using heat and pressure to a PVB inner layer.

**Smooth Operation**
Ellipse operator with stainless steel hinge track and adjustable hinges opens to 90°.

### Product Type

<table>
<thead>
<tr>
<th>Product Type</th>
<th>Test Unit Size (inches)</th>
<th>Overall Rating</th>
<th>Air Infiltration (scfm/ft2)</th>
<th>Water Pressure (psf)</th>
<th>Structural Pressure (psf)</th>
<th>Florida FL Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Casement</td>
<td>35.5 x 71.5</td>
<td>C-LC50</td>
<td>0.01</td>
<td>9.75 psf</td>
<td>+50/-50</td>
<td>FL 15317</td>
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<tr>
<td>Casement FW</td>
<td>71.5 x 71.5</td>
<td>FW-R60</td>
<td>0.00</td>
<td>9.00 psf</td>
<td>+60/-60</td>
<td>FL 15325</td>
</tr>
</tbody>
</table>

### Color options

- **WHITE**
- **BEIGE**
- **CLAY**
- **BRONZE**
- **BLACK**
- **Dove Grey**
- **Dove White**

### Glass options

**Low-E**
- ¾” Low-E .32 SHGC .25
- ¾” Low-E with Argon (One lite of Low-E and one lite of Interior Surface Low-E)
- ¾” Low-E+SC .28 SHGC .24
- ¾” Low-E2+SC .28 SHGC .18

**Low-E with Argon**
- ¾” HP .29 SHGC .25
- ¾” HP+SC .28 SHGC .19
- ¾” HP2+ .26 SHGC .24
- ¾” HP2+SC .25 SHGC .18

### Grille types

- **GBG Grilles**
  - 3/4” Flat, 5/8” or 1” Sculptured
- **SDL Grilles**
  - 7/8” or 1-1/4” SDL with Shadow Bar

### Glass options

- Low-E with Argon (One lite of Low-E and one lite of Interior Surface Low-E with argon gas fill)

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**Building choice** into every view.

**Our 1500 Vinyl Collection** Casement windows are available in singles, fixed and a wide selection of architectural shapes.

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1500 Vinyl Collection
Impact Patio Door
Dramatic Entry

Our 1500 Vinyl Collection Impact Sliding Patio Doors are available with matching fixed panel, side lites, and transoms.

Sturdy Construction
Multi-chamber construction with fusion-welded corners and pre-punched nail fin. Full perimeter weatherstripping ensures tight seal.

Interlocking Panels
Self-centering interlock satisfies forced entry requirements.

Laminated Glass
Our impact glass uses technology similar to a car windshield with the glass bonded using heat and pressure to a PVB inner layer.

Smooth Operation
Adjustable rollers ensure smooth operation; durable aluminum threshold and sill track.

<table>
<thead>
<tr>
<th>Product Type</th>
<th>Test Unit Size (inches)</th>
<th>Overall Rating</th>
<th>Air Infiltration (scfm/ft2)</th>
<th>Water Pressure (psf)</th>
<th>Structural Pressure (psf)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Patio Door</td>
<td>71.5 X 81.5</td>
<td>LC-PG50</td>
<td>0.11</td>
<td>7.50</td>
<td>+50/-50</td>
</tr>
<tr>
<td>Fixed</td>
<td>38.1875 X 81.5</td>
<td>LC-PG50</td>
<td>0.02</td>
<td>9.82</td>
<td>+50/-50</td>
</tr>
</tbody>
</table>

Color options

- WHITE
- BEIGE
- CLAY
- BRONZE
- BLACK
- DOVE GREY

Glass options

- Low-E
- Low-E SC
- Low-E 2+ SC
- Low-E 2+ HP2+ SC

Low-E with Argon

- 3/4" Low-E with Argon
- 3/4" Low-E SC with Argon
- 3/4" Low-E 2+ SC with Argon
- 3/4" Low-E 2+ HP2+ SC with Argon

Color options

- WHITE
- BEIGE
- CLAY
- BRONZE
- BLACK
- DOVE GREY

Grille types

- GBG Grilles
  3/4" Flat, 5/8" or 1" Sculptured

- SDL Grilles
  7/8" or 1-1/4" SDL with Shadow Bar

Glass options

- Low-E
- Low-E SC
- Low-E 2+ SC
- Low-E 2+ HP2+ SC

Low-E with Argon

- 3/4" Low-E with Argon
- 3/4" Low-E SC with Argon
- 3/4" Low-E 2+ SC with Argon
- 3/4" Low-E 2+ HP2+ SC with Argon

STC 31

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7/8" Low-E 33 SHGC .29
One lite of Low-E

7/8" Low-E SC .33 SHGC .23
One lite of solar cooling Low-E

7/8" Low-E 2+ .28 SHGC .28
One lite of Low-E and one lite of Interior Surface Low-E

7/8" Low-E 2+ SC .28 SHGC .21
One lite of solar cooling Low-E and one lite of Interior Surface Low-E

7/8" HP .30 SHGC .29
One lite of Low-E with argon

7/8" HP SC .29 SHGC .22
One lite of solar cooling Low-E with argon

7/8" HP2+ .26 SHGC .28
One lite of Low-E and one lite of Interior Surface Low-E with argon

7/8" HP2+ SC .25 SHGC .21
One lite of Low-E and one lite of Interior Surface Low-E with argon gas fill