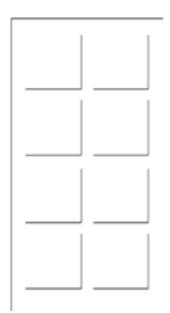




A WHOLE NEW POINT OF VIEW.

WEST



It's more than a window. It's a whole new point of view. At Ply Gem Windows, we have a different view for the way the window business should be run. We believe you should have access to all of the top quality styles and brands across the country. That's why we've taken our entire portfolio of brands, brands that you know and trust, and given them one name – Ply Gem Windows. With this one name comes a lot of big advantages, starting with a national manufacturing and distribution network. Pair that with our commitment to customer service, sustainable practices and wide variety of window styles that fit all of your design needs, and you'll get the right window for every project and every budget.

And, because we're part of the Ply Gem family, you know you'll always have access to leading brands. Windows, doors, siding and accessories, stone veneer, fence and rail, rainware, shutters and designer accents, we have something for every project. We work with residential builders, remodelers, architects, distributors and dealers to help build sales. When you combine over 50 years of experience, industry-leading customer service, and trusted local relationships you've got a company you can count on. Ply Gem. Building products.

Building success.



$\frac{\mathsf{PRO} \ \mathsf{SERIES}}{\mathsf{W} \ \mathsf{I} \ \mathsf{N} \ \mathsf{D} \ \mathsf{o} \ \mathsf{W} \ \mathsf{s}}$

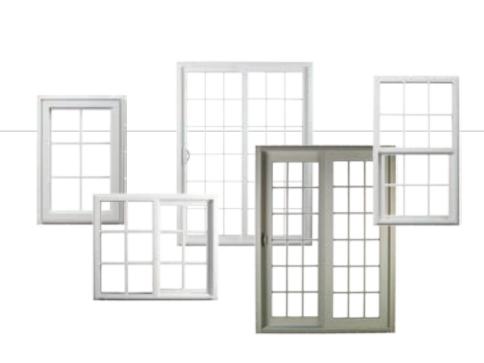
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PLY GEM PRO SERIES WINDOWS HAVE BEEN GREEN CERTIFIED BY THE NGBS HOME INNOVATION RESEARCH LABS.

This means you can be assured that Ply Gem Pro Series windows comply with specific green practice criteria in the National Green Building Standard[™]. Visit www.GreenApprovedProducts.com for more details.



Looks that last. Styles that stand out. Style. Value. Dependability. When you're looking to make the most of your next project, count on Ply Gem Windows Pro Series. Our extensive product line provides you with the choices you want and the custom solutions you need. Designed to be energy-efficient and virtually maintenance free, you'll not only enhance the view, you'll help bring a room to life.





200 SINGLE HUNG













FEATURES

- 1 Integral nail fin for easy and accurate installation
- 2 Low-point, high-pressure weep system helps rain water drain efficiently from the frame
- **3** Removable side loaded bottom sash
- 4 Continuous weatherstripping and dual camaction sash lock provides security while sealing out the weather and sealing in your comfort
- 5 Energy-efficient Warm Edge insulating HP glass reduces energy cost and reduces fabric fading; optional Warm Edge+ spacer system for enhanced performance
- **6** Corrosion-resistant stainless steel screws and hardware for lifelong durability
- 7 Aluminum-reinforced meeting rail for added strength and durability
- 8 Maintenance-free multi-chamber PVC construction with fusion-welded corners for durability, weather-tight performance and beauty
- 9 37/16" frame depth with heavy vinyl walls for strength and stability
- 10 Rated for light commercial application











200 single hung windows are available with optional sloped sill and grilles-between-the-glass (GBG) and simulated-divided-lite (SDL) grilles to enhance your home's curb appeal. Upgrade to our AUTOLOCK—positive action lock—and be sure your windows are securely locked just by closing them.



Cam action sash lock (standard)



Optional AUTOLOCK, locks automatically when unit is closed



Sash stop



200 SLIDING WINDOW













FEATURES

- 1 Integral nail fin for easy, accurate installation
- 2 Low-point, high-pressure weep system helps water drain efficiently from frame
- **3** Wide brass adjustable rollers for smooth operation
- 4 Limited sash stop and removable sash
- 5 Continuous weatherstripping and dual camaction sash lock provides security while sealing out the weather and sealing in your comfort
- 6 Energy-efficient Warm Edge insulating HP glass reduces energy cost and reduces fabric fading; optional Warm Edge+ spacer system for enhanced performance
- 7 Corrosion-resistant stainless steel screws and hardware for lifelong durability
- 8 Aluminum-reinforced meeting rail for adde strength and durability
- 9 Maintenance-free multi-chamber PVC construction with fusion-welded corners for durability, weather-tight performance and beauty
- **10** $3^{7}/_{16}$ " frame depth with heavy vinyl walls for strength and stability
- 11 Rated for light commercial application











200 sliding windows are available with optional grillesbetween-the-glass (GBG) and simulated-divided-lite (SDL) grilles to enhance your home's curb appeal. Upgrade to our AUTOLOCK—positive action lock—and be sure your windows are securely locked just by closing them.



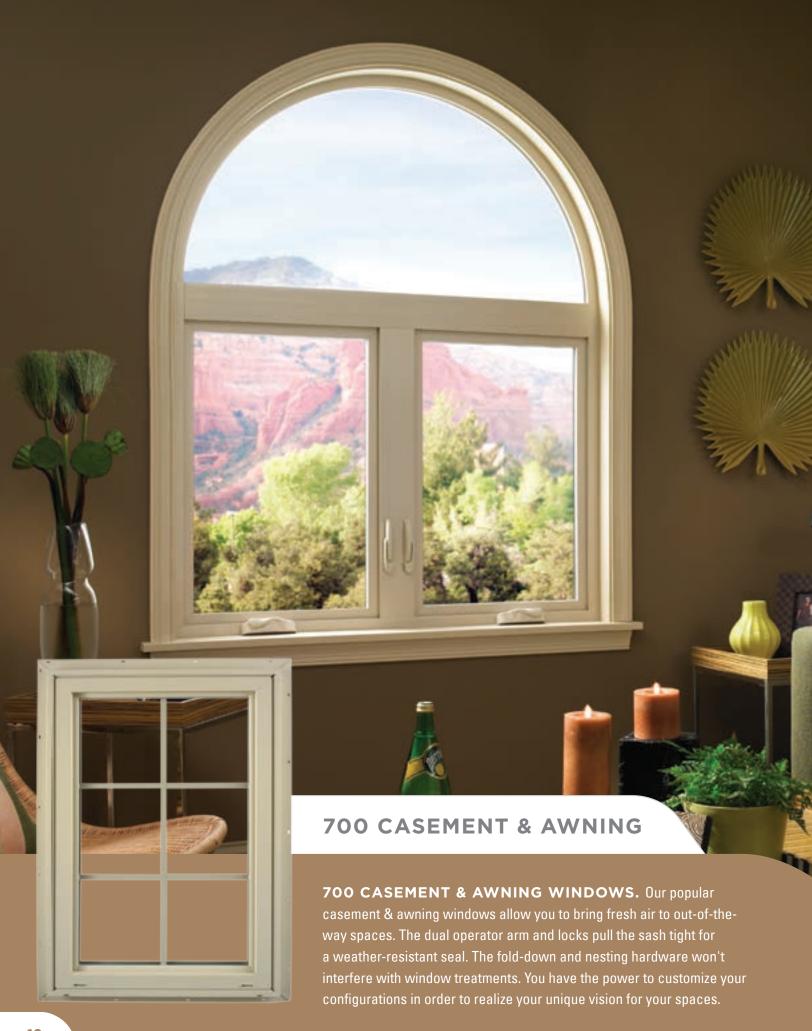
Cam action sash lock (standard)



Optional AUTOLOCK, locks automatically when unit is closed



Sash stop



700 CASEMENT & AWNING







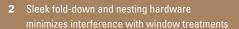






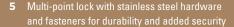
FEATURES













7 3⁷/₁₆" frame depth with heavy vinyl walls for strength and stability

8 Rated for light commercial application











700 casements & awnings are available with optional grillesbetween-the-glass (GBG) and simulated-divided-lite (SDL) grilles to enhance your home's curb appeal.



Sleek fold-down and nesting hardware



Multi-point sash lock



200 SINGLE HUNG BAY WINDOWS









FEATURES

- jamb extensions1
- Low-point, high-pressure weep system helps rain
- **3** Removable side loaded bottom sash
- Continuous weatherstripping and dual cam action sash lock provides security while sealing out the weather and sealing in your comfort
- **5** Energy-efficient Warm Edge insulating HP glass reduces energy cost and reduces fabric fading; optional Warm Edge+ spacer system for
- hardware for lifelong durability
- Aluminum-reinforced meeting rail for added strength and durability
- construction with fusion-welded corners for durability, weather-tight performance and beauty
- 9 37/16" frame depth with heavy vinyl walls for













Pinch fusionwelded strength



- Provides exterior support for bay windows¹
- Available in white and sand
- 3 Pre-finished to be maintenance free



200 SINGLE HUNG BOW WINDOWS









FEATURES

- 1 Frame types include no fin or nail fin with 13/8" setback with optional head and seat with jamb extensions¹
- 2 Low-point, high-pressure weep system helps rain water drain efficiently from the frame
- **3** Removable side loaded bottom sash
- 4 Continuous weatherstripping and dual cam action sash lock provides security while sealing out the weather and sealing in your comfort
- 5 Energy-efficient Warm Edge insulating HP glass reduces energy cost and reduces fabric fading; optional Warm Edge+ spacer system for enhanced performance
- 6 Corrosion-resistant stainless-steel screws and hardware for lifelong durability
- 7 Aluminum-reinforced meeting rail for added strength and durability
- 8 Maintenance-free multi-chamber PVC construction with fusion-welded corners for durability, weather-tight performance and beauty
- 9 $3^{7}/_{16}$ " frame depth with heavy vinyl walls for strength and stability













Pinch fusionwelded strength



- Provides exterior support for bow windows¹
- 2 Available in white and sand
- 3 Pre-finished to be maintenance free



700 CASEMENT BAY WINDOWS









FEATURES

- 1 Frame types include no fin or nail fin with 1³/₈" setback with optional head and seat with jamb extensions¹
- 2 Sleek fold-down and nesting hardware minimizes interference with window treatments
- 3 Dual row of weatherstripping seals out the weather and seals in your comfort
- 4 Energy-efficient Warm Edge insulating HP glass reduces energy cost and reduces fabric fading; optional Warm Edge+ spacer system for enhanced performance
- 5 Multi-point lock with stainless steel hardware and fasteners for durability and added security
- 6 Maintenance-free multi-chamber PVC construction with fusion-welded corners for durability, weather-tight performance and beauty
- 7 37/16" frame depth with heavy vinyl walls for strength and stability













Pinch fusionwelded strength



- 1 Provides exterior support for bay windows¹
- 2 Available in white and sand
- **3** Pre-finished to be maintenance free



700 CASEMENT BOW WINDOWS









- 1 Frame types include no fin or nail fin with 13/8" setback with optional head and seat with jamb extensions¹
- 2 Sleek fold-down and nesting hardware minimizes
- **3** Dual row of weatherstripping seals out the
- 4 Energy-efficient Warm Edge insulating HP glass reduces energy cost and reduces fabric fading; optional Warm Edge+ spacer system for
- 5 Multi-point lock with stainless steel hardware and fasteners for durability and added security
- 6 Maintenance-free multi-chamber PVC construction with fusion-welded corners for durability, weather-tight performance













Pinch fusionwelded strength



- Provides exterior support for bow windows¹
- Available in white and sand
- Pre-finished to be maintenance free



400 GARDEN WINDOW











FEATURES



- 1 No fin or flange style nail fin with unfinished seatboard²
- 2 New Generation uiPVC vinyl never needs painting or caulking and resists conducting heat and cold
- 3 Durable powder coated steel wire shelf maximizes the area for your herb garden and plants
- 4 Operating single hung windows on each side allow for ventilation
- **5** Fusion-welded frames and sash for extra strength and dependable performance
- 6 Available in white or sand color options
- 7 Sloped top lite is only available with a dual pane insulated glass unit
- 8 Energy-efficient Warm Edge insulating HP glass reduces energy cost and reduces fabric fading; optional Warm









400 garden windows are available with optional grillesbetween-the-glass (GBG) to enhance your home's curb appeal.



Pinch fusionwelded strength



- 1 Provides exterior support for garden windows²
- 2 Available in white and sand
- **3** Pre-finished to be maintenance free



960 SLIDING PATIO DOOR













FEATURES

- Integral pre-punched nailing fin facilitates easy and accurate installation; frame options include 13/8" nail fin setback with stucco key or J-channel, dual wall flush fin or no fin
- 2 Maintenance-free multi-chamber New Generation PVC vinyl construction with fusion welded corners for durability, weather-tight performance and beauty
- 3 Smooth gliding rollers provide long lasting durability
- 4 Two-point lock with adjustable strikes is standard on 2-panel and 3-panel doors and four-point lock is standard on 4-panel doors
- 5 Energy-efficient Warm Edge insulating tempered HP glass reduces energy cost and reduces fabric fading; optional Warm Edge+ spacer system for enhanced performance
- 6 Shoot-bolt in 4-panel doors for added security
- 7 43/8" frame depth with heavy vinyl walls for strength and stability
- 8 Anodized aluminum threshold cover











960 sliding patio doors are available with optional grilles-between-the-glass (GBG) and simulated-divided-lite (SDL) grilles to enhance your home's curb appeal.

Interior Handle Finish Upgrades









Standard colorcoordinated exterior handle



Standard colorcoordinated interior handle



960 INSWING HINGED PATIO DOOR













FEATURES

- 1 Integral pre-punched nailing fin facilitates easy and accurate installation
- 2 Maintenance-free multi-chamber New Generation PVC vinyl construction with fusion-welded corners for durability, weather-tight performance and beauty
- 3 Available configurations include French hinged, center hinged or hinged (shown or single panel hinged operation
- 4 High performance multi-point locking system that includes a steel latch and dead bolt and shoot bolt in the head and threshold — withstands up to 300 lbs. of force
- 5 Energy-efficient Warm Edge insulating tempered HP glass reduces energy cost and reduces fabric fading; Optional Warm Edge+ spacer system for enhanced performance
- 6 Heavy duty two way adjustable hinges allow for ease of installation and ensure proper alignment
- 7 4 13/16" frame depth with heavy vinyl walls for strength and stability
- 8 Anodized aluminum threshold cover











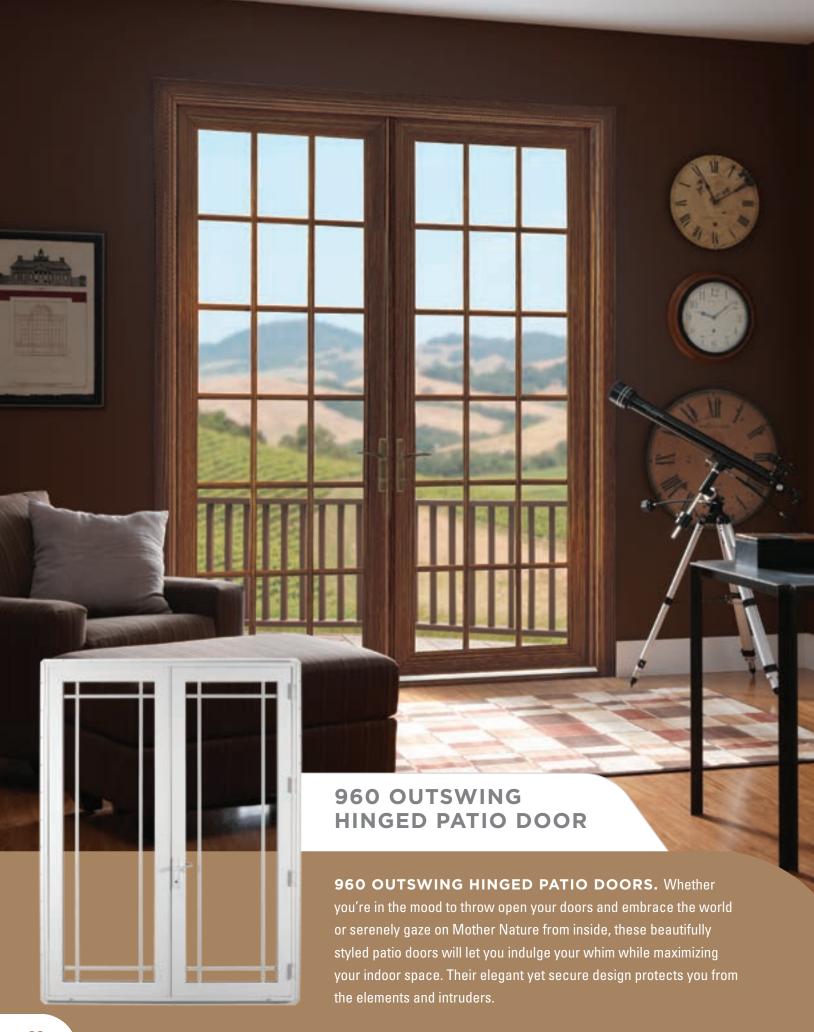
HARDWARE FINISHES²











960 OUTSWING HINGED PATIO DOOR













FEATURES

- Integral pre-punched nailing fin facilitates easy and accurate installation
- 2 Maintenance-free multi-chamber New Generation PVC vinyl construction with fusionwelded corners for durability, weather-tight performance and beauty
- 3 Available configurations include French hinged, center hinged or hinged (shown) or single panel hinged operation
- 4 High performance multi-point locking system that includes a steel latch and dead bolt and shoot bolt in the head and threshold withstands up to 300 lbs. of force
- 5 Energy-efficient Warm Edge insulating tempered HP glass reduces energy cost and reduces fabric fading; Optional Warm Edge+ spacer system for enhanced performance
- 6 Heavy duty two way adjustable hinges allow for ease of installation and ensure proper alignment
- 7 4 13/16" frame depth with heavy vinyl walls for strength and stability
- 8 Anodized aluminum threshold cove











HARDWARE FINISHES²







970 FRENCH SLIDING PATIO DOOR













FEATURES

- 1 Integral pre-punched nailing fin facilitates easy and accurate installation; frame options include 13/8" nail fin setback with stucco key or J-channel, dual wall flush fin or no fin
- 2 Maintenance-free multi-chamber New Generation PVC vinyl construction with fusionwelded corners for durability, weather-tight performance and beauty
- **3** Smooth gliding rollers provide long lasting durability
- 4 Two-point lock with adjustable strikes is standard on 2-panel and 3-panel doors and four-point lock is standard on 4-panel doors
- 5 Energy-efficient Warm Edge insulating tempered HP glass reduces energy cost and reduces fabric fading; optional Warm Edge+ spacer system for enhanced performance
- 6 Shoot-bolt in four-panel doors for added security
- 7 43/8" frame depth with heavy vinyl walls fo strength and stability
- 8 Anodized aluminum threshold cover
- 9 Wide stiles and rails for an authentic French look











970 French sliding patio doors are available with optional grilles-between-the-glass (GBG) and simulated-divided-lite (SDL) grilles to enhance your home's curb appeal.

Interior Handle Finish Upgrades









Standard colorcoordinated exterior handle

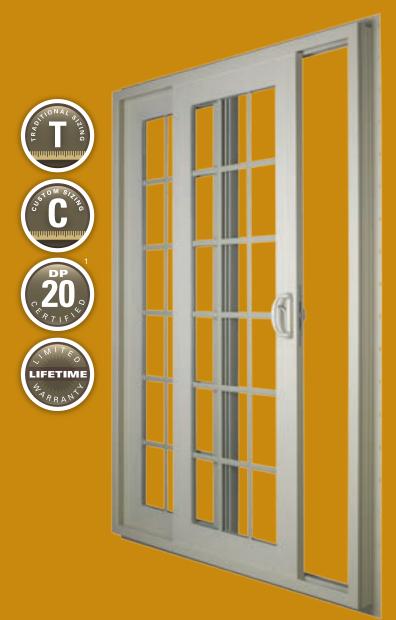


Standard colorcoordinated interior handle

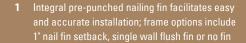


980 FRENCH SLIDING PATIO DOOR





FEATURES





- 2 Maintenance-free multi-chamber New Generation PVC vinyl construction with fusionwelded corners for durability, weather-tight performance and beauty
- 3 Smooth gliding stainless steel rollers provide long-lasting durability
- 4 Two-point lock with adjustable strikes is standard on 2-panel and 3-panel doors and four-point lock is standard on 4-panel doors
- 5 Energy-efficient Warm Edge insulating tempered HP glass reduces energy cost and reduces fabric fading; optional Warm Edge+ spacer system for enhanced performance
- 6 43/8" frame depth with heavy vinyl walls for strength and stability
- 7 Wide stiles and rails for an authentic French look









980 French sliding patio doors are available with optional grillesbetween-the-glass (GBG) to enhance your home's curb appeal.

Interior Handle Finish Upgrades









Standard colorcoordinated exterior handle



Standard colorcoordinated interior handle









FEATURES

- 1 Frame types include no fin, single wall flush fin, stucco key, J-Channel or nail fin with 13/8" setback
- 2 New Generation uiPVC vinyl never needs painting or caulking and resists conducting heat and cold
- 3 Fusion-welded frames and sash for extra strength and dependable performance
- 4 Available in white or sand color options
- 5 Color-coordinated louver hardware and handles on left of on units when approached from the interior
- **6** Blades are available in a variety of glass options and redwood
- 7 3⁷/₁₆" frame depth with heavy vinyl walls fo strength and stability







Pinch fusion-welded corners for strength



Color-coordinated louver hardware and handles







FEATURES





- Fusion-welded frames and sash for extra strength and dependable performance
- 4 Available in white or sand color options
- 5 Color-coordinated hardware
- 6 $3^{7}/_{16}$ " frame depth with heavy vinyl walls for strength and stability
- 7 Energy-efficient Warm Edge insulating tempered HP glass reduces energy cost and reduces fabric fading; optional Warm Edge+ spacer system for enhanced performance

Skywalls can be configured with casement, awning and/or fixed panels and are available with optional grilles-between-the-glass (GBG) and simulated-divided-lite (SDL) grilles to enhance your home's curb appeal.















Pinch fusion-welded strength

PERFORMANCE COMPARISON



The lower the U-Factor, the greater the insulation value. R-Value is the inverse (R=1/U) of the U-Factor. Total Unit Factors determined per NFRC-100 (National Fenestration Rating Council). Chart shows relationship between performance and Ply Gem Windows glass package options, not including energy package upgrade.

*Ply Gem Windows R-5 products meet or exceed a U-Factor of 0.20 on fixed units & 0.22 on operating units.

LOW-E GLASS PACKAGES

Our Low-E glass packages combine Low-E and Warm Edge spacer options, providing insulating glass options to meet your specific needs. Our Low-E glass packages provide better performance in regions with hot summers and cold winters. Our Low-E^{SC} (solar cooling) glass package is optimized for regions with significant indoor cooling and glare reduction requirements. Our Low-E glass packages can be combined with capillary tubes to address performance needs in high elevation applications.

Low-E — One lite of Low-E.

Low-Esc — One lite of solar cooling Low-E.

Low-E2+[‡] — One lite of Low-E and one lite of Interior Surface Low-E.

 $\textbf{Low-E2}_{\texttt{MAX}^{\ddagger}}$ — Triple-pane with two lites of Low-E with an interior glass substrate

Low-E3_{MAX}[‡] — Triple-pane with two lites of Low-E and one lite of Interior Surface Low-E

† These glass packages are combined with capillary tubes to address performance needs in high elevation applications.

HP GLASS PACKAGES

Edge spacer options, providing high-performance insulating glass options to meet your specific needs. Argon is a safe, odorless, colorless gas, which is heavier or denser than air. When used in conjunction with Low-E glass, argon provides better insulation. That's because heat and cold do not pass through argon gas as easily as through air. Argon is nontoxic and presents no human health or environmental concerns. HP glass package is also available in solar cooling (sc) glass packages for regions with significant indoor cooling and glare reduction requirements.

HP — One lite of Low-E and argon gas fill.

HP^{sc} — One lite of solar cooling optimized Low-E and argon gas fill.

 $\ensuremath{ \text{HP2+}}-$ One lite of Low-E and one lite of Interior Surface Low-E with argon gas fill.

HPMAX GLASS PACKAGES (triple-pane)

Our HPMAX glass packages are triple-pane units that combine Low-E with two chambers of argon gas fill and Warm Edge spacer options, providing enhanced high-performance insulating glass options to meet your specific needs.

HP2_{MAX} — Triple-pane with two lites of Low-E with an interior glass substrate and two chambers of argon gas fill.

HP3max — Triple-pane with two lites of Low-E and one lite of Interior Surface Low-E and two chambers of argon gas fill.

PLY GEM WINDOWS

WHAT ARE R-5 WINDOWS?

High-performance R-5¹ windows are highly insulating windows with a whole-window R-Value of 5 (a U-Factor of around 0.2). Most of our Pro series products can be configured as R-5 units. These products are the top tier of energy-efficient windows for cold and mixed climates.

ENERGY STAR® windows have a U-Factor of around 0.3. Reducing the U-Factor from 0.3 to 0.2, with high-performance R-5 windows, reduces average heat loss through the window by more than 30%,² and saves consumers money on energy bills.

¹R-5 = U-Factor of .22 or lower for operating units; .20 for fixed units

² U.S. Department of Energy – Energy Efficiency and Renewable Energy EERE News, May 27, 2010

THERMAL PERFORMANCE DATA — WINDOWS

| PRO SERIES 200 SINGLE HUNG | | | | |
|----------------------------|---------|----------------|------|------|
| | | NFRC CERTIFIED | | |
| | R Value | U Factor | SHGC | VT |
| | WITH WA | RM EDGE | | |
| ³/₄" Clear | 2.08 | 0.48 | 0.62 | 0.65 |
| 3/4" HP | 3.23 | 0.31 | 0.29 | 0.55 |
| | 3.33 | 0.30 | 0.22 | 0.43 |
| 3/4" HP2+ | 3.70 | 0.27 | 0.27 | 0.49 |
| 1" НР2мах | 4.17 | 0.24 | 0.25 | 0.42 |
| 1″ НРЗмах | 4.35 | 0.23 | 0.22 | 0.41 |
| WITH WARM EDGE+ | | | | |
| | 3.33 | 0.30 | 0.29 | 0.55 |
| | 3.45 | 0.29 | 0.22 | 0.43 |
| 3/4" HP2+ | 3.85 | 0.26 | 0.27 | 0.49 |
| R-5 OPTION | | | | |
| | 4.55 | 0.22 | 0.22 | 0.41 |

| PRO SERIES 700 CASEMENT | | | | |
|-------------------------|----------|----------------|------|------|
| | | NFRC CERTIFIED | | |
| | R Value | U Factor | SHGC | VT |
| | WITH WA | RM EDGE | | |
| ³/₄" Clear | 2.33 | 0.43 | 0.51 | 0.53 |
| ³/ ₄ ″ HP | 3.45 | 0.29 | 0.24 | 0.45 |
| 3/4" HP ^{SC} | 3.45 | 0.29 | 0.18 | 0.35 |
| ³/ ₄ " HP2+ | 4.00 | 0.25 | 0.22 | 0.40 |
| 1" НР2мах | 4.35 | 0.23 | 0.21 | 0.35 |
| 1" НРЗмах | 4.76 | 0.21 | 0.18 | 0.32 |
| | WITH WAF | RM EDGE+ | | |
| 3/4" HP | 3.57 | 0.28 | 0.24 | 0.45 |
| 3/4" HP ^{sc} | 3.57 | 0.28 | 0.18 | 0.35 |
| 3/4" HP2+ | 4.17 | 0.24 | 0.22 | 0.40 |
| R-5 OPTION | | | | |
| 1" R-5 | 4.76 | 0.21 | 0.18 | 0.32 |

| PRO SERIES 200 SLIDING WINDOW | | | | | |
|-------------------------------|----------|----------------|------|------|--|
| | | NFRC CERTIFIED | | | |
| | R Value | U Factor | SHGC | VT | |
| | WITH WA | RM EDGE | | | |
| ³/₄" Clear | 2.08 | 0.48 | 0.62 | 0.65 | |
| | 3.23 | 0.31 | 0.29 | 0.55 | |
| 3/4" HPsc | 3.33 | 0.30 | 0.22 | 0.43 | |
| ³/ ₄ " HP2+ | 3.70 | 0.27 | 0.27 | 0.49 | |
| 1" НР2мах | 4.17 | 0.24 | 0.25 | 0.42 | |
| 1" НРЗмах | 4.35 | 0.23 | 0.22 | 0.41 | |
| | WITH WAF | RM EDGE+ | | | |
| | 3.33 | 0.30 | 0.29 | 0.55 | |
| | 3.45 | 0.29 | 0.22 | 0.43 | |
| ³/ ₄ " HP2+ | 3.85 | 0.26 | 0.27 | 0.49 | |
| R-5 OPTION | | | | | |
| 1" R-5 | 4.55 | 0.22 | 0.22 | 0.41 | |

| PRO SERIES 700 AWNING | | | | |
|------------------------|---------|----------------|------|------|
| | | NFRC CERTIFIED | | |
| | R Value | U Factor | SHGC | VT |
| | WITH WA | RM EDGE | | |
| ³/₄" Clear | 2.33 | 0.43 | 0.51 | 0.53 |
| 3/4" HP | 3.45 | 0.29 | 0.24 | 0.45 |
| 3/4" HPsc | 3.57 | 0.28 | 0.18 | 0.35 |
| 3/ ₄ " HP2+ | 4.00 | 0.25 | 0.22 | 0.40 |
| 1" HP2max | 4.35 | 0.23 | 0.21 | 0.35 |
| 1" НРЗмах | 4.76 | 0.21 | 0.18 | 0.32 |
| WITH WARM EDGE+ | | | | |
| 3/4" HP | 3.57 | 0.28 | 0.24 | 0.45 |
| 3/4" HPsc | 3.57 | 0.28 | 0.18 | 0.35 |
| ³/ ₄ " HP2+ | 4.00 | 0.25 | 0.22 | 0.40 |
| R-5 OPTION | | | | |
| 1" R-5 | 4.76 | 0.21 | 0.18 | 0.32 |

NOTE

All units are NAMI certified and rated in accordance with NFRC 100/200 standards by an AAMA accredited lab. Performance values reflect the performance of units tested with the following configuration: ¾" IGU on dual pane glass packages and 1" on triple pane and R-5 glass packages, 3mm glass and no grilles.

R VALUE: Restrictive ambient air flow; U FACTOR: Rate of heat loss; SHGC: Solar Heat Gain Coefficient; VT: Visible Transmittance

THERMAL PERFORMANCE — PATIO DOORS

PRO SERIES 960 SLIDING PATIO DOOR

| FRO SERIES 500 SEIDING FATIO DOOR | | | | |
|-----------------------------------|----------|----------------|------|------|
| | | NFRC CERTIFIED | | |
| | R Value | U Factor | SHGC | VT |
| | WITH WA | RM EDGE | | |
| ³/₄" Clear | 2.13 | 0.47 | 0.61 | 0.64 |
| 3/4" HP | 3.33 | 0.30 | 0.28 | 0.54 |
| ³/4" HP ^{sc} | 3.33 | 0.30 | 0.22 | 0.42 |
| 3/4" HP2+ | 3.85 | 0.26 | 0.27 | 0.49 |
| 1" НР2мах | 4.17 | 0.24 | 0.24 | 0.42 |
| 1″ НРЗмах | 4.55 | 0.22 | 0.22 | 0.40 |
| | WITH WAF | RM EDGE+ | | |
| 3/4" HP | 3.45 | 0.29 | 0.28 | 0.54 |
| 3/4" HP ^{sc} | 3.45 | 0.29 | 0.22 | 0.42 |
| 3/4" HP2+ | 3.85 | 0.26 | 0.27 | 0.49 |
| R-5 OPTION | | | | |
| 1" R-5 | 4.55 | 0.22 | 0.22 | 0.40 |

PRO SERIES 970 FRENCH SLIDING PATIO DOOR

| | | NFRC CERTIFIED | | | |
|-----------------|---------|----------------|------|------|--|
| | R Value | U Factor | SHGC | VT | |
| WITH WARM EDGE | | | | | |
| ³/₄" Clear | 2.13 | 0.47 | 0.52 | 0.53 | |
| | 3.03 | 0.33 | 0.24 | 0.45 | |
| | 3.03 | 0.33 | 0.19 | 0.36 | |
| WITH WARM EDGE+ | | | | | |
| | 3.13 | 0.32 | 0.24 | 0.45 | |
| ³/₄" HPsc | 3.13 | 0.32 | 0.19 | 0.36 | |

PRO SERIES 980 FRENCH SLIDING PATIO DOOR

| | | NFRC CERTIFIED | | | |
|----------------|---------|----------------|------|------|--|
| | R Value | U Factor | SHGC | VT | |
| WITH WARM EDGE | | | | | |
| ³/₄" Clear | 2.13 | 0.47 | 0.52 | 0.54 | |
| | 3.13 | 0.32 | 0.26 | 0.47 | |
| | 3.13 | 0.32 | 0.23 | 0.38 | |

NOTE:

All units are NAMI certified and rated in accordance with NFRC 100/200 standards by an AAMA accredited lab. Performance values reflect the performance of units tested with the following configuration: ¾" IGU on dual pane glass packages and 1" on triple pane and R-5 glass packages, 3mm glass and no grilles.

R VALUE: Restrictive ambient air flow; U FACTOR: Rate of heat loss; SHGC: Solar Heat Gain Coefficient; VT: Visible Transmittance





LIMITED LIFETIME WARRANTY

One of Life's Few Guarantees.

ZARRA Life comes with few guarantees. Fortunately, Pro Windows offer you a permanent solution. Our custom vinyl windows offer more than construction quality, unmatched energy-efficiency and low maintenance. They also offer a Limited Lifetime Warranty.

We believe so strongly in the durability of our windows that we back each window unit with our hassle-free Limited Lifetime Warranty. Lifetime means your windows are protected under the warranty for as long as you live in your home. And your warranty is transferable to the next homeowner helping you protect your investment by increasing your home's resale value.

Wouldn't it be nice if you could feel so confident about everything you bought?

WHAT IS LOW-E?

Low-E glass has a secondary, very thin metallic dual layer coating. This allows the sun's heat and light to pass through the insulating glass, but, at the same time, actually works to reflect radiant heat back toward its source. Since Low-E coating reflects radiant heat waves, it helps keep your home warmer in the winter by trapping radiant heat and cooler in the summer by blocking it from your home. Low-E^{sc} is optimized for warmer climates by applying two heavier layers, through a patented process, resulting in blocking 73% of the sun's radiant heat from entering your home while providing superior insulation in cooler weather to save you energy year-round.

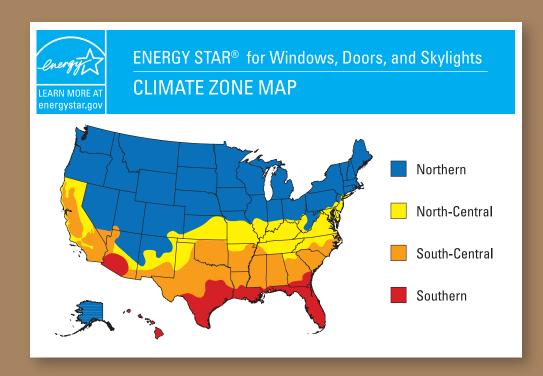
Our Interior Surface Low-E is engineered to have the characteristic window manufacturers and homeowners need most — lower U-Factor— and is applied to the surface of the glass you can touch inside your home, providing increased comfort and improved energy savings. One major benefit is a decrease in U-Factor of approximately 0.04, improving the energy efficiency so that many of our doors and windows meet new energy codes and ENERGY STAR® zone requirements. The neutral color with low haze and ultra-smooth surface of our Interior Surface Low-E provides a clearer view of the outdoors and can be cleaned with common household glass cleaners. No special instructions. Our Interior Surface Low-E is durable and scratch-resistant.



NATURAL LIGHT WITHOUT THE GLARE.

Ply Gem's Low-E glass has many advantages such as minimal visible darkening. Our glass minimizes interior glare, reducing eyestrain and making it easier to watch television or look at a computer screen when bright sunlight fills a room.

ENERGY STAR®



Ply Gem Pro Series windows and patio doors can be configured to meet a specific ENERGY STAR zone in all states. Your investment in ENERGY STAR products will pay for itself over time in reduced energy bills, not to mention increase the comfort level inside your home.





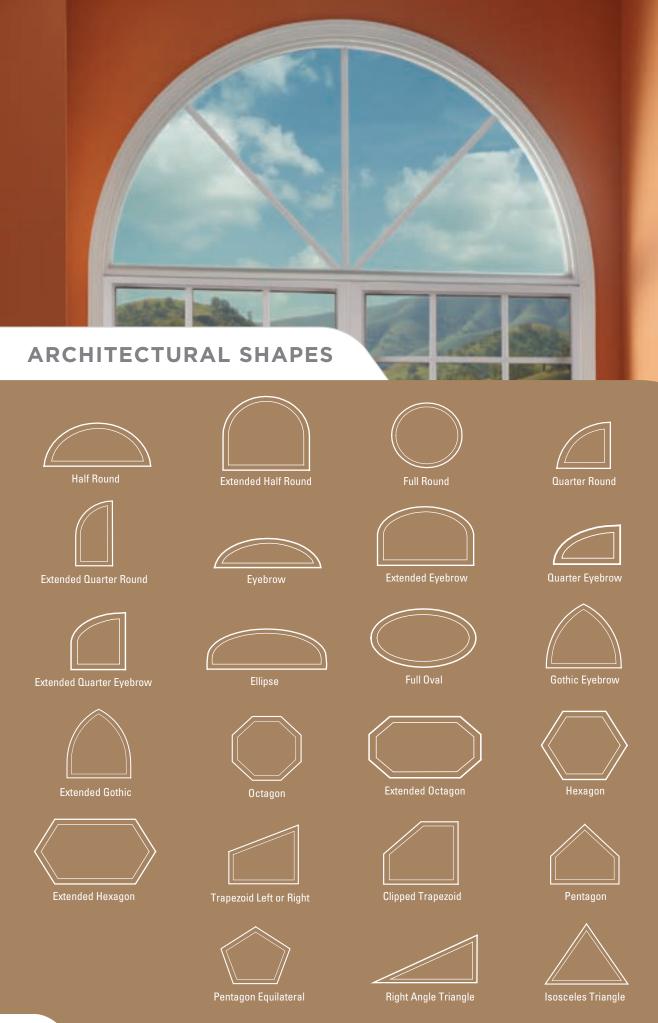


GLASS OPTIONS

- Low-E
- Low-E^{SC}
- Low-E2
- Low-E2MAX*
- Low-E3*MAX**
- HP
- HPsc
- HP2+
- HP2*MAX**
- HP3*MAX**
- Clear
- Tinted¹
- Obscure²
- Glue Chip Obscure²
- Tempered³
- Laminated
- Sound Package (off-set glass)

^{*} See page 34 for explanation of glass packages. Low-E2MAX, Low-E3MAX, HP2MAX and HP3MAX are not available on all products, see product pages for details. Contact your Ply Gem sales representative for a full list of Pro Series glass thickness options and ratings.

Consult your Ply Gem representative for a complete list of tinted glass types.
 Consult your Ply Gem representative for a complete list of obscure glass types. Limitations of triple pane obscure substitutions, see price book for details.
 Tempered glass standard on patio doors and skywall ceilings.



GBG = Grilles-between-the-glass SDL = Simulated-divided-lites

*SDL not available for garden windows or 980 sliding patio doors.







5/8" Sculptured GBG



1" Sculptured



7/8" SDL*



11/4" SDL*

FRAME OPTIONS

Dual wall flush fin, single wall flush fin, no fin, $1^{3}/_{8}$ " nail fin setback with stucco key or J-Channel

Consult a Ply Gem Windows representative for specific frame options for specific products in this brochure.

COLOR



Colors are reproduced as accurately as printer technology allows. Please see your authorized Ply Gem Windows representative for actual samples.

SCREEN OPTIONS

Fiberglass mesh is the standard insect screening material used on all Ply Gem Windows products with available half or full screens. This product provides good outward visibility and ventilation and will not rust, corrode or stain.

STANDARD GRILLE PATTERNS



Below is a glossary of our icons that you will see throughout the Ply Gem Windows brochures. These icons identify features and benefits for each window so you can easily understand what is available to you with each style.



CUSTOM SIZING

Ply Gem windows and patio doors can be ordered in 1/8 inch increments to accommodate any application providing a perfect fit and minimizing installation time and special trimming requirements.



WARM EDGE TECHNOLOGY

Standard Warm Edge glass spacer system within Ply Gem windows reduces thermal transfer around the glass perimeter by utilizing a unique U-shaped channel to separate glass panes and interrupt the natural flow of heat to cold. Warm Edge is one continuous piece creating a stronger, more energy-efficient insulated glass unit. Plus it flexes with glass expansion and contraction to ensure a strong seal for the life of the window.



TRADITIONAL SIZING

Ply Gem windows and patio doors can be ordered in industry standard sizes used for vinyl windows which is ideal for new construction projects or replacing standard size units quickly and easily.



WARM EDGE+ TECHNOLOGY

Optional Warm Edge Plus Spacer System has all of the features of the Warm Edge Spacer, but utilizes a new, less conductive material which provides a lower U-Factor.



DP CERTIFIED

Ply Gem windows are tested to meet the air, water and structure requirements of AAMA/WDMA 101/I.S.2. With advanced level engineering and top-notch innovation, you are assured of the most durable, high-performing windows available nationwide.



NEW GENERATION VINYL

Wood or metal windows can stick when they swell or deteriorate from corrosion. New Generation Vinyl withstands harsh weather and wear-and-tear better. Ply Gem windows are constructed with rugged, maintenance-free New Generation uiPVC. Its low conductivity and high energy-efficiency properties are ideal for Ply Gem's advanced window construction. And because vinyl's base color is solid throughand-through, you'll never need to paint or stain these windows.



PINCH FUSION WELDING

Ply Gem windows are entirely fusion-welded – sashes and mainframes – to create a solid, one-piece unit that maintains its strength over the years. Our state-of-the-art fusion process ensures frame and sash corners won't have the excess variance found with other welding techniques.



Ply Gem windows and patio doors can be ordered in 1/8 inch increments for any application providing a perfect fit and minimizing installation time and special trimming requirements.



















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For more information, call 888-9PLYGEM.