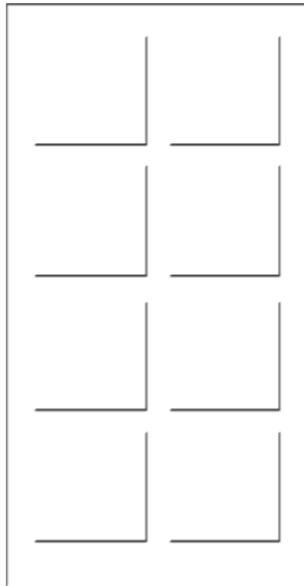


A WHOLE NEW POINT OF VIEW.



**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.**



# PRO SERIES

W I N D O W S

## TABLE OF CONTENTS

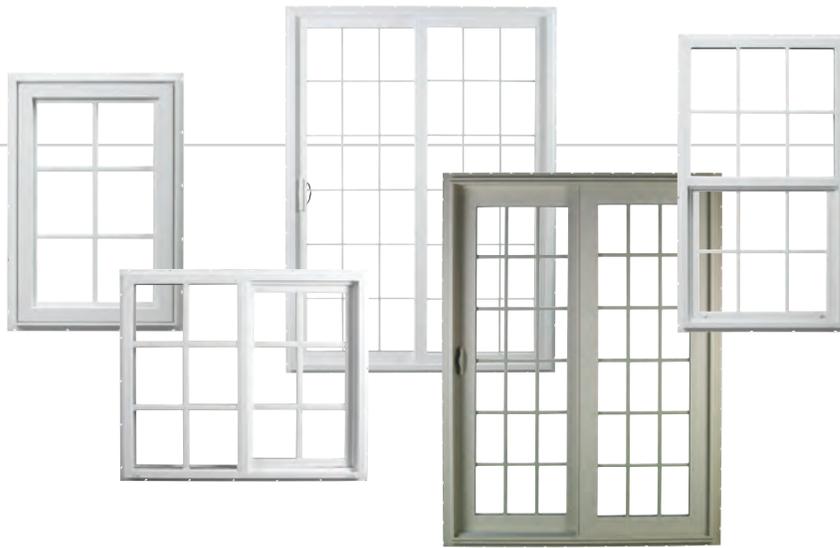
200 Single Hung .....	6
200 Sliding Window .....	8
700 Casement and Awning .....	10
200 Single Hung Bay Window .....	12
200 Single Hung Bow Window .....	14
700 Casement Bay Window .....	16
700 Casement Bow Window .....	18
400 Garden Window .....	20
800 Sliding Patio Door .....	22
960 Sliding Patio Door .....	24
970 French Sliding Patio Door .....	26
980 French Sliding Patio Door .....	28
Jalousie .....	30
Skywall .....	32
Explanation of Glass Packages .....	34
Thermal Performance Data .....	35
Warranty Information .....	37
Low-E and ENERGY STAR® Information .....	38
Glass Options .....	39
Architectural Shapes .....	40
Grille, Color, Screen and Frame Options .....	41
Grille Pattern Options .....	42
Icon Glossary and Custom Sizing .....	43

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**PLY GEM PRO SERIES WINDOWS HAVE BEEN GREEN APPROVED BY THE NAHB RESEARCH CENTER.**

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](http://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.



A WHOLE NEW POINT OF VIEW.



## 200 SINGLE HUNG

**200 SINGLE HUNG WINDOWS.** Bring your rooms to life with our attractive single hung windows, which blend the charm of yesterday with the high-tech innovation of today. Don't be fooled by the timeless look of these classic windows because each one sports the latest in energy-efficient features.



## 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 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  $3\frac{7}{16}$ " 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.

A



Cam action sash lock (standard)

B



Optional AUTOLOCK, locks automatically when unit is closed

C



Sash stop



## 200 SLIDING WINDOW

**200 SLIDING WINDOWS.** For an unobstructed view of the world, look no farther than our eye-catching, energy-efficient, maintenance-free and secure sliding windows. These solidly built and dependable windows slide open like a dream yet seal tightly to keep out the cold and heat.





## 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 cam-action 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 added strength and durability
- 9 Maintenance-free multi-chamber PVC construction with fusion-welded corners for durability, weather-tight performance and beauty
- 10 3<sup>7</sup>/<sub>16</sub>" frame depth with heavy vinyl walls for strength and stability
- 11 Rated for light commercial application



200 sliding windows are available with optional 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.

A



Cam action sash lock (standard)

B

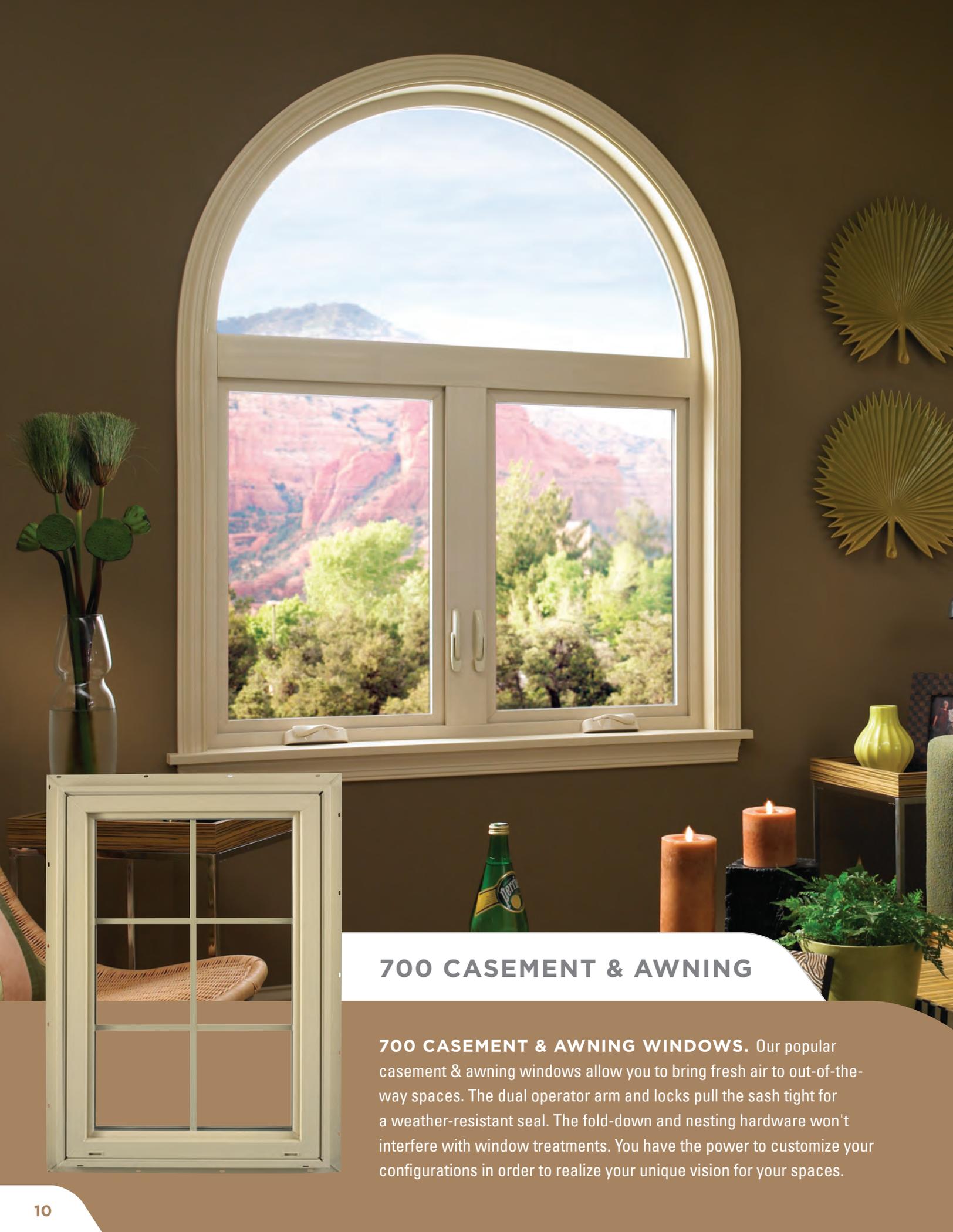


Optional AUTOLOCK, locks automatically when unit is closed

C



Sash stop



## 700 CASEMENT & AWNING

**700 CASEMENT & AWNING WINDOWS.** Our popular casement & awning windows allow you to bring fresh air to out-of-the-way spaces. The dual operator arm and locks pull the sash tight for a weather-resistant seal. The fold-down and nesting hardware won't interfere with window treatments. You have the power to customize your configurations in order to realize your unique vision for your spaces.



## FEATURES

- 1 Integral pre-punched nailing fin facilitates easy and accurate installation
- 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 3<sup>7</sup>/<sub>16</sub>" frame depth with heavy vinyl walls for strength and stability
- 8 Rated for light commercial application



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

A

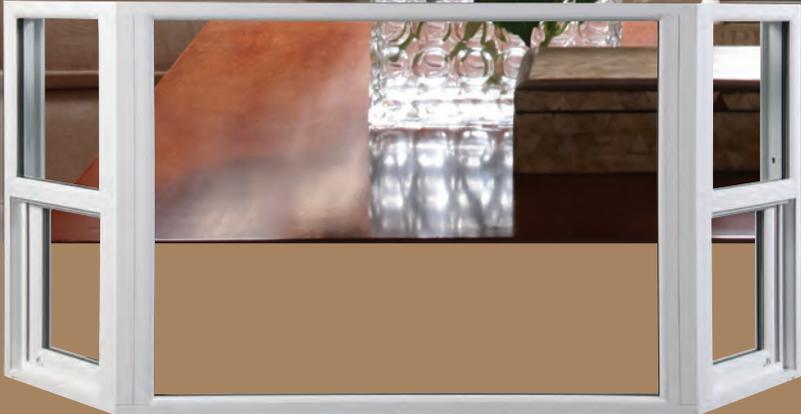


Sleek fold-down and nesting hardware

B



Multi-point sash lock



## 200 SINGLE HUNG BAY WINDOWS

**200 SINGLE HUNG BAY WINDOWS.** Custom made with every detail in mind, our bay windows provide a touch of class to enhance your home's curb appeal.



## FEATURES

- 1 Frame types include no fin or nail fin with 1<sup>3</sup>/<sub>8</sub>" setback with optional head and seat with jamb extensions<sup>1</sup>
- 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<sup>7</sup>/<sub>16</sub>" frame depth with heavy vinyl walls for strength and stability



Pinch fusion-welded strength



## External Knee Braces

- 1 Provides exterior support for bay windows<sup>1</sup>
- 2 Available in white and beige
- 3 Pre-finished to be maintenance free

1. Additional knee braces and cable system are required for bay window installation when head and seatboard with extension jamb options is selected. Failure to properly support a bay window will void the warranty. 2. Low-E with argon.



## 200 SINGLE HUNG BOW WINDOWS

**200 SINGLE HUNG BOW WINDOWS.** Custom made with every detail in mind, our bow windows provide an elegance to any room that is sure to enhance your home's curb appeal too. Bows available in 3, 4 or 5 window configurations.



## FEATURES

- 1 Frame types include no fin or nail fin with 1<sup>3</sup>/<sub>8</sub>" setback with optional head and seat with jamb extensions<sup>1</sup>
- 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<sup>7</sup>/<sub>16</sub>" frame depth with heavy vinyl walls for strength and stability



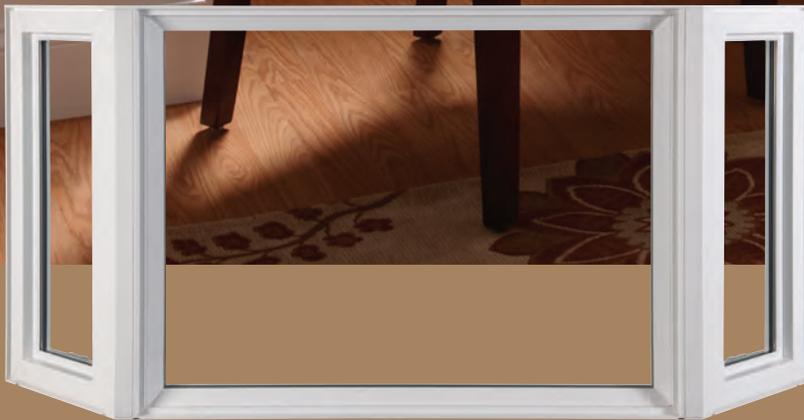
Pinch fusion-welded strength



## External Knee Braces

- 1 Provides exterior support for bow windows<sup>1</sup>
- 2 Available in white and beige
- 3 Pre-finished to be maintenance free

1. Additional knee braces and cable system are required for bow window installation when head and seatboard with extension jamb options is selected. Failure to properly support a bow window will void the warranty. 2. Low-E with argon gas fill



## 700 CASEMENT BAY WINDOWS

**700 CASEMENT BAY WINDOWS.** Custom made with every detail in mind, our bay windows provide a touch of class to enhance your home's curb appeal.



## FEATURES

- 1 Frame types include no fin or nail fin with 1<sup>3</sup>/<sub>8</sub>" setback with optional head and seat with jamb extensions<sup>1</sup>
- 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 3<sup>7</sup>/<sub>16</sub>" frame depth with heavy vinyl walls for strength and stability



Pinch fusion-welded strength



### External Knee Braces

- 1 Provides exterior support for bay windows<sup>1</sup>
- 2 Available in white and beige
- 3 Pre-finished to be maintenance free

1. Additional knee braces and cable system are required for bay window installation when head and seatboard with extension jamb options is selected. Failure to properly support a bay window will void the warranty. 2. Low-E with argon.



## 700 CASEMENT BOW WINDOWS

**700 CASEMENT BOW WINDOWS.** Custom made with every detail in mind, our bow windows provide an elegance to any room that is sure to enhance your homes curb appeal too. Bows available in 3, 4 or 5 window configurations.



## FEATURES

- 1 Frame types include no fin or nail fin with 1<sup>3</sup>/<sub>8</sub>" setback with optional head and seat with jamb extensions<sup>1</sup>
- 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 3<sup>7</sup>/<sub>16</sub>" frame depth with heavy vinyl walls for strength and stability



Pinch fusion-welded strength



### External Knee Braces

- 1 Provides exterior support for bow windows<sup>1</sup>
- 2 Available in white and beige
- 3 Pre-finished to be maintenance free

1. Additional knee braces and cable system are required for bow window installation when head and seatboard with extension jamb options is selected. Failure to properly support a bow window will void the warranty. 2. Low-E with argon.



## 400 GARDEN WINDOW

**400 GARDEN WINDOWS.** You don't have to have the greenest thumb in the family to watch nature blossom in your garden window. The bountiful sunlight they provide will keep your plants thriving year-round.



## FEATURES

- 1 No fin or flange style nail fin with unfinished seatboard<sup>2</sup>
- 2 New Generation uPVC 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 beige 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 Edge+ spacer system for enhanced performance



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



Pinch fusion-welded strength



### External Knee Braces

- 1 Provides exterior support for garden windows<sup>2</sup>
- 2 Available in white and beige
- 3 Pre-finished to be maintenance free

1. Most units are rated DP40 standard 2. Additional knee braces and cable system are required for garden window installation when head and seatboard with extension jamb options is selected. Failure to properly support a garden window will void the warranty. 3. Low-E with argon gas fill.



## 800 SLIDING PATIO DOOR

**800 SLIDING PATIO DOORS.** Our sliding patio doors make you feel like you're in the middle of nature, yet lock out cold, rain and wind. These superior doors boast special features like a low-point, high-pressure weep system to pull water out of the frame, insulating tempered glass and smooth gliding rollers for effortless operation.



## FEATURES

- 1 Integral pre-punched nailing fin for easy and accurate installation; frame options include 1" or 1 3/8" nail fin setback with stucco key or no fin and Insulair passive fresh air ventilation system
- 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 ensure effortless operation
- 4 Energy-efficient Warm Edge insulating tempered HP glass reduces energy cost and reduces fabric fading; optional Warm Edge+ spacer system for enhanced performance
- 5 4 3/4" frame depth with heavy vinyl walls for strength and stability
- 6 Low-point, high-pressure weep system pulls water out of the frame



800 sliding patio doors are available with optional grilles-between-the-glass (GBG) to enhance your home's curb appeal.

A



Standard color-coordinated exterior handle

B



Standard color-coordinated interior handle



## 960 SLIDING PATIO DOOR

**960 SLIDING PATIO DOORS.** Our enhanced sliding patio door has all the style and performance of our other models plus a few notable additions, like stainless steel rollers that provide long-lasting durability, a two-point lock to keep you safe and an aluminum threshold cover to provide added energy-efficiency.



## FEATURES

- 1 Integral pre-punched nailing fin facilitates easy and accurate installation; frame options include 1<sup>3</sup>/<sub>8</sub>" 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 4<sup>3</sup>/<sub>8</sub>" 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



ANTIQUE BRASS



SATIN NICKEL



OIL RUBBED BRONZE

A



Standard color-coordinated exterior handle

B



Standard color-coordinated interior handle



## 970 FRENCH SLIDING PATIO DOOR

**970 FRENCH SLIDING PATIO DOORS** let you frame your world with beauty. This classic door's gracious styling belies its durable construction and energy-efficient features. Stainless steel rollers let you effortlessly open the door when you want to venture out, and the shoot-bolt provides top security when you want to stay safely in.

# 970 FRENCH SLIDING PATIO DOOR



## FEATURES

- 1 Integral pre-punched nailing fin facilitates easy and accurate installation; frame options include 1<sup>3</sup>/<sub>8</sub>" 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 four-panel doors for added security
- 7 4<sup>3</sup>/<sub>8</sub>" frame depth with heavy vinyl walls for 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



ANTIQUE BRASS



SATIN NICKEL



OIL RUBBED BRONZE

A



Standard color-coordinated exterior handle

B



Standard color-coordinated interior handle



## 980 FRENCH SLIDING PATIO DOOR

**980 FRENCH SLIDING PATIO DOORS** let you drench your room in light and usher in the beauty that rests just outside. These dependable doors are energy-efficient, strong and virtually maintenance free. If you'd like to enlarge and enliven your living spaces, there is no better way.

# 980 FRENCH SLIDING PATIO DOOR



## FEATURES

- 1 Integral pre-punched nailing fin facilitates easy and accurate installation; frame options include 1" nail fin setback, single 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 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 4<sup>3</sup>/<sub>8</sub>" 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 grilles-between-the-glass (GBG) to enhance your home's curb appeal.

### Interior Handle Finish Upgrades



ANTIQUE BRASS



SATIN NICKEL



OIL RUBBED BRONZE

A



Standard color-coordinated exterior handle

B



Standard color-coordinated interior handle



## JALOUSIE

**JALOUSIE WINDOWS.** Ideal for areas you desire abundant ventilation and sunlight. With angled blades open you allow the soft breeze to wash over you.



## FEATURES

- 1 Frame types include no fin, single wall flush fin, stucco key, J-Channel or nail fin with 1<sup>3</sup>/<sub>8</sub>" setback
- 2 New Generation uPVC 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 beige 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 3<sup>7</sup>/<sub>16</sub>" frame depth with heavy vinyl walls for strength and stability



A



Pinch fusion-welded corners for strength

B

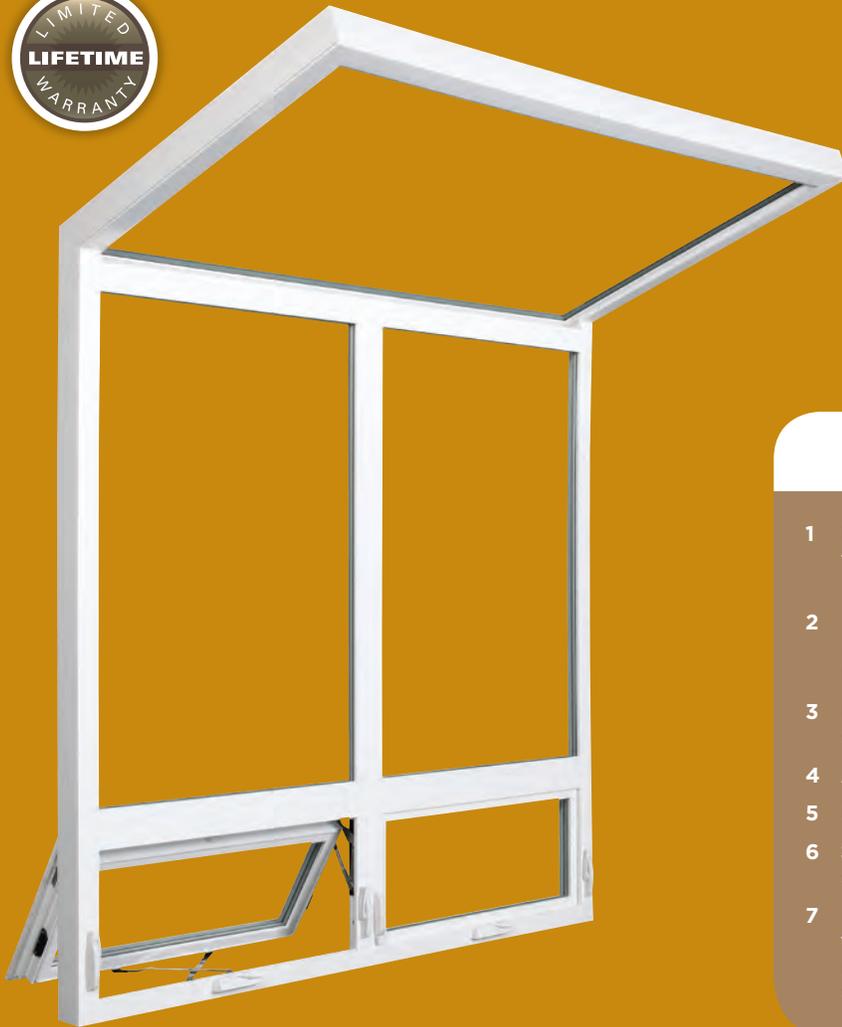


Color-coordinated louver hardware and handles



## SKYWALL

**SKYWALLS** provide maximum light and keep you in touch with the outdoors while protecting you from the weather. Can be configured with single hung, casement, awning and fixed combinations.



## FEATURES

- 1 Frame types include no fin, single wall flush fin, stucco key, J-Channel or nail fin with 1<sup>3</sup>/<sub>8</sub>" setback
- 2 New Generation uPVC 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 beige color options
- 5 Color-coordinated hardware
- 6 3<sup>7</sup>/<sub>16</sub>" 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 single hung, 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.

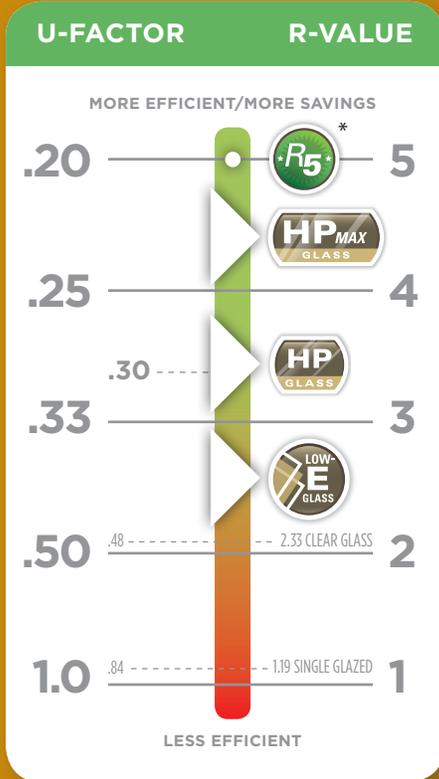
A



Pinch fusion-welded strength

# EXPLANATION OF GLASS PACKAGES

## 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<sup>SC</sup> (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-E<sup>SC</sup>** – One lite of solar cooling Low-E.

**Low-E2+<sup>‡</sup>** – One lite of Low-E and one lite of Interior Surface Low-E.

**Low-E2<sup>MAX</sup>+<sup>‡</sup>** – Triple-pane with two lites of Low-E with an interior glass substrate

**Low-E3<sup>MAX</sup>+<sup>‡</sup>** – Triple-pane with two lites of Low-E and one lite of Interior Surface Low-E

<sup>‡</sup> These glass packages are combined with capillary tubes to address performance needs in high elevation applications.



### HP GLASS PACKAGES

Our HP glass packages combine Low-E with argon gas fill and Warm 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 (<sup>SC</sup>) glass packages for regions with significant indoor cooling and glare reduction requirements.

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

**HP<sup>SC</sup>** – One lite of solar cooling optimized Low-E and argon gas fill.

**HP2+** – One lite of Low-E and one lite of Interior Surface Low-E with argon gas fill.



### HP<sup>MAX</sup> GLASS PACKAGES (triple-pane)

Our HP<sup>MAX</sup> 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<sup>MAX</sup>** – Triple-pane with two lites of Low-E with an interior glass substrate and two chambers of argon gas fill.

**HP3<sup>MAX</sup>** – Triple-pane with two lites of Low-E and one lite of Interior Surface Low-E and two chambers of argon gas fill.



## WHAT ARE R-5 WINDOWS?

High-performance R-5<sup>1</sup> 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<sup>®</sup> 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%,<sup>2</sup> and saves consumers money on energy bills.

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

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

# THERMAL PERFORMANCE DATA – WINDOWS

PRO SERIES 200 SINGLE HUNG				
	R Value	NFRC CERTIFIED		
		U Factor	SHGC	VT
WITH WARM EDGE				
3/4" Clear	2.08	0.48	0.62	0.65
3/4" HP	3.23	0.31	0.29	0.55
3/4" HP <sup>SC</sup>	3.33	0.30	0.22	0.43
3/4" HP2+	3.70	0.27	0.27	0.49
1" HP2 <sub>MAX</sub>	4.17	0.24	0.25	0.42
1" HP3 <sub>MAX</sub>	4.35	0.23	0.22	0.41
WITH WARM EDGE+				
3/4" HP	3.33	0.30	0.29	0.55
3/4" HP <sup>SC</sup>	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 CASEMENT				
	R Value	NFRC CERTIFIED		
		U Factor	SHGC	VT
WITH WARM 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 <sup>SC</sup>	3.45	0.29	0.18	0.35
3/4" HP2+	4.00	0.25	0.22	0.40
1" HP2 <sub>MAX</sub>	4.35	0.23	0.21	0.35
1" HP3 <sub>MAX</sub>	4.76	0.21	0.18	0.32
WITH WARM EDGE+				
3/4" HP	3.57	0.28	0.24	0.45
3/4" HP <sup>SC</sup>	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				
	R Value	NFRC CERTIFIED		
		U Factor	SHGC	VT
WITH WARM EDGE				
3/4" Clear	2.08	0.48	0.62	0.65
3/4" HP	3.23	0.31	0.29	0.55
3/4" HP <sup>SC</sup>	3.33	0.30	0.22	0.43
3/4" HP2+	3.70	0.27	0.27	0.49
1" HP2 <sub>MAX</sub>	4.17	0.24	0.25	0.42
1" HP3 <sub>MAX</sub>	4.35	0.23	0.22	0.41
WITH WARM EDGE+				
3/4" HP	3.33	0.30	0.29	0.55
3/4" HP <sup>SC</sup>	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				
	R Value	NFRC CERTIFIED		
		U Factor	SHGC	VT
WITH WARM 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 <sup>SC</sup>	3.57	0.28	0.18	0.35
3/4" HP2+	4.00	0.25	0.22	0.40
1" HP2 <sub>MAX</sub>	4.35	0.23	0.21	0.35
1" HP3 <sub>MAX</sub>	4.76	0.21	0.18	0.32
WITH WARM EDGE+				
3/4" HP	3.57	0.28	0.24	0.45
3/4" HP <sup>SC</sup>	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: 3/4" 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 800 SLIDING PATIO DOOR

	R Value	NFRC CERTIFIED		
		U Factor	SHGC	VT
WITH WARM EDGE				
3/4" Clear	2.04	0.49	0.63	0.66
3/4" HP	3.23	0.31	0.29	0.56
3/4" HP <sup>SC</sup>	3.23	0.31	0.22	0.44
WITH WARM EDGE+				
3/4" HP	3.23	0.31	0.29	0.56
3/4" HP <sup>SC</sup>	3.23	0.31	0.22	0.44

## PRO SERIES 970 FRENCH SLIDING PATIO DOOR

	R Value	NFRC CERTIFIED		
		U Factor	SHGC	VT
WITH WARM EDGE				
3/4" Clear	2.13	0.47	0.52	0.53
3/4" HP	3.03	0.33	0.24	0.45
3/4" HP <sup>SC</sup>	3.03	0.33	0.19	0.36
WITH WARM EDGE+				
3/4" HP	3.13	0.32	0.24	0.45
3/4" HP <sup>SC</sup>	3.13	0.32	0.19	0.36

## PRO SERIES 960 SLIDING PATIO DOOR

	R Value	NFRC CERTIFIED		
		U Factor	SHGC	VT
WITH WARM 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 <sup>SC</sup>	3.33	0.30	0.22	0.42
3/4" HP2+	3.85	0.26	0.27	0.49
1" HP2 <sup>MAX</sup>	4.17	0.24	0.24	0.42
1" HP3 <sup>MAX</sup>	4.55	0.22	0.22	0.40
WITH WARM EDGE+				
3/4" HP	3.45	0.29	0.28	0.54
3/4" HP <sup>SC</sup>	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 980 FRENCH SLIDING PATIO DOOR

	R Value	NFRC CERTIFIED		
		U Factor	SHGC	VT
WITH WARM EDGE				
3/4" Clear	2.13	0.47	0.52	0.54
3/4" HP	3.13	0.32	0.26	0.47
3/4" HP <sup>SC</sup>	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: 3/4" 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.

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<sup>SC</sup> 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.

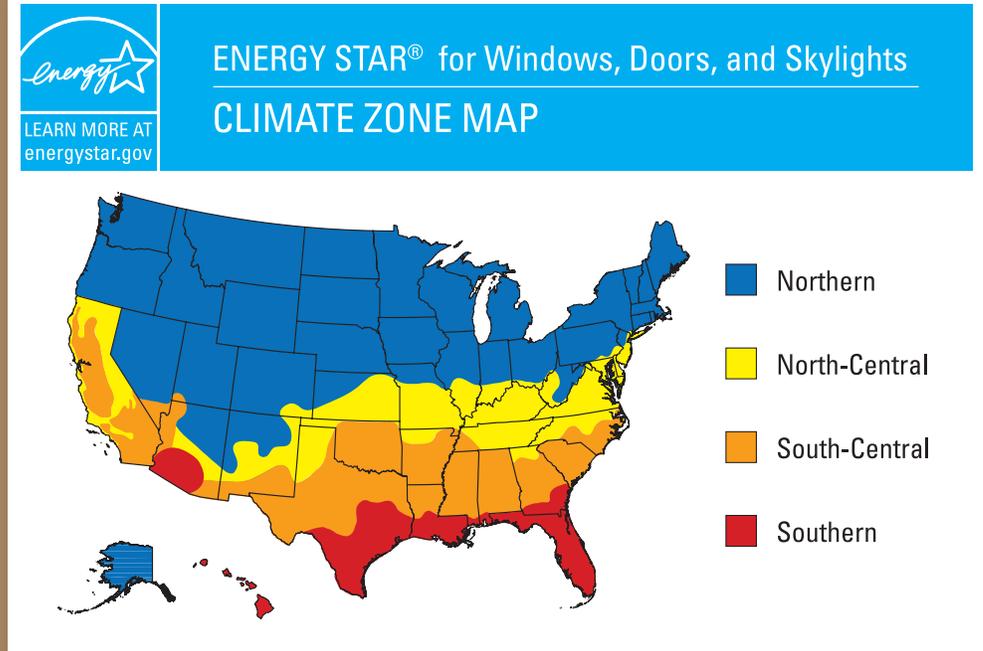
Our *Interior Surface Low-E* is engineered to have the characteristic window manufacturers and homeowners need most — lower U-Factor— and is applied to the surface of the glass you can touch inside your home, providing increased comfort and improved energy savings. One major benefit is a decrease in 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<sup>SC</sup>
- Low-E2
- Low-E2<sup>MAX</sup>\*
- Low-E3<sup>MAX</sup>\*
- HP
- HP<sup>SC</sup>
- HP2+
- HP2<sup>MAX</sup>\*
- HP3<sup>MAX</sup>\*
- Clear
- Tinted<sup>1</sup>
- Obscure<sup>2</sup>
- Glue Chip Obscure<sup>2</sup>
- Tempered<sup>3</sup>
- Laminated  
(security)
- Sound Package  
(off-set glass)

\* See page 34 for explanation of glass packages. Low-E2<sup>MAX</sup>, Low-E3<sup>MAX</sup>, HP2<sup>MAX</sup> and HP3<sup>MAX</sup> 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.

1. Consult your Ply Gem representative for a complete list of tinted glass types.

2. Consult your Ply Gem representative for a complete list of obscure glass types. Limitations of triple pane obscure substitutions, see price book for details.

3. Tempered glass standard on patio doors and skywall ceilings.



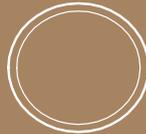
## ARCHITECTURAL SHAPES



Half Round



Extended Half Round



Full Round



Quarter Round



Extended Quarter Round



Eyebrow



Extended Eyebrow



Quarter Eyebrow



Extended Quarter Eyebrow



Ellipse



Full Oval



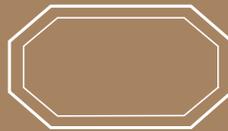
Gothic Eyebrow



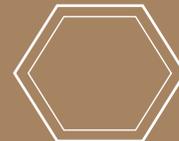
Extended Gothic



Octagon



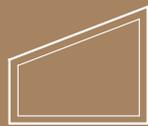
Extended Octagon



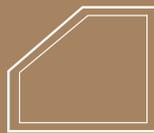
Hexagon



Extended Hexagon



Trapezoid Left or Right



Clipped Trapezoid



Pentagon



Pentagon Equilateral



Right Angle Triangle



Isosceles Triangle

## GRILLE OPTIONS

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

\*SDL not available for garden windows, 800 sliding patio doors or 980 sliding patio doors.



5/8" Flat GBG



5/8" Sculptured GBG



1" Sculptured GBG



7/8" SDL\*



1/4" SDL\*

## FRAME OPTIONS

Dual wall flush fin, single wall flush fin, no fin,  
1<sup>3</sup>/<sub>8</sub>" 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 OPTIONS

WHITE



BEIGE

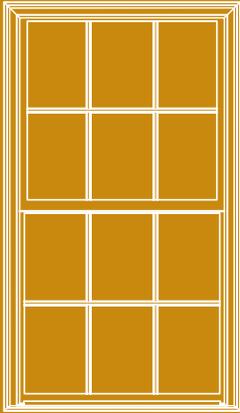


Colors are reproduced as accurately as printer technology allows. Please see your authorized Ply Gem Windows representative for actual samples.

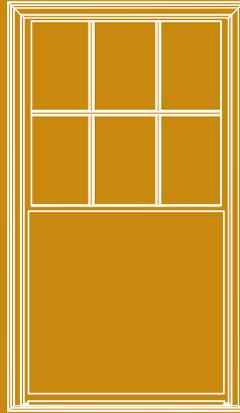
## SCREEN OPTIONS

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.

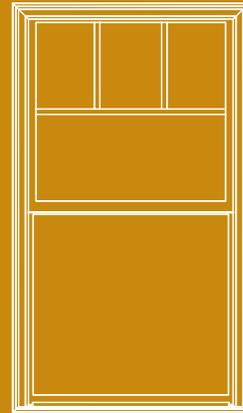
# STANDARD GRILLE PATTERNS



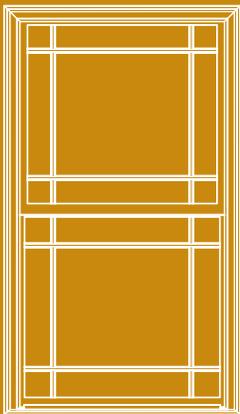
Colonial



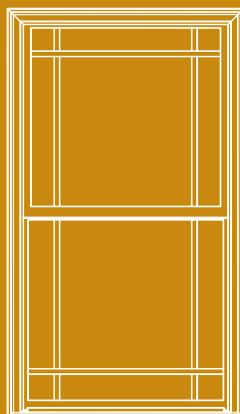
Half Colonial  
(shown on casement)



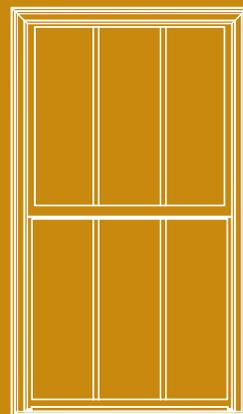
Plaza



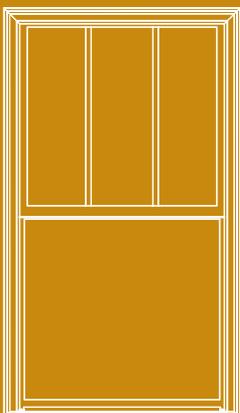
Prairie



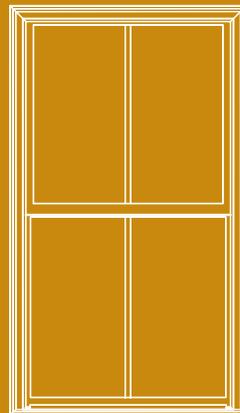
Perimeter Prairie



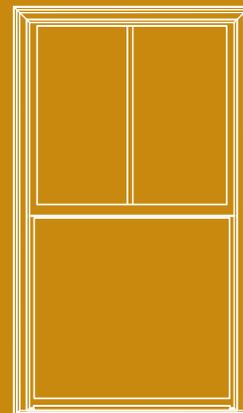
Three over Three



Three over One



Two over Two



Two over One

Consult your Ply Gem representative for optional 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 uPVC. 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 through-and-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.



## CUSTOM SIZING

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.