



A NEW POINT OF VIEW

# 2000 & 5100 Contractor Series

## OVERALL FEATURES

- 3-1/4" frame depth for traditional pocket window installation. Flange and fin options available on double hung and sliding windows to meet a variety of installation options (flange, no fin or nail fin with J-channel)
- Hidden SilLock design with a sloped sill eliminates the need for weep holes, forces water to drain to the exterior of the window and keeps your windows dry, providing enhanced weather-tight performance
- 7/8" IGU glass systems with energy efficient Warm Edge (standard) or Warm Edge+ (optional upgrade) available in Low-E, HP or HP<sub>MAX</sub> glass package options
- All product styles can be configured to meet ENERGY STAR® requirements in all states
- **NEW** The Energy Package Upgrade options include any glass package option with the addition of R-Core® insulation to the sash and frame for unsurpassed energy efficiency
- NFRC rated and certified



Shown in Contractor 2000 Series Double Hung corner cut featuring HP<sub>MAX</sub> glass package upgrade with High DP Performance option

## Color Options

### EXTERIOR & INTERIOR COLOR OPTIONS



WHITE



BEIGE

### NEW!

### PAINTED EXTERIOR COLOR OPTIONS WITH WHITE INTERIOR



BLACK  
EXT  
WHITE INT



BRONZE  
EXT  
WHITE INT



EVERGREEN  
EXT  
WHITE INT



Warm Edge Spacer reduces thermal transfer around the glass perimeter to interrupt the natural flow of heat to cold



### NEW!

R-Core® insulated frame and sash available with Energy Package option



# 2000 Double Hung Window

## FEATURES

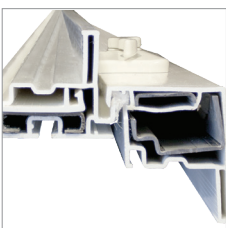
- Designed with equal sight line sash for traditional wood window appearance
- Both sash tilt in and are removable for easy and safe cleaning
- Integral interlock system provides protection against air infiltration and makes window more secure
- Double weatherstripped sash provides extra protection against dust, dirt and noise
- High DP performance option, featuring reinforced sash, ensures security and peace of mind in threatening weather
- Interior and exterior accessory grooves allows for a wide selection of installation options
- Locking pivot bar and shoe assembly in upper sash and jamb jacks at meeting rail help ensure a square installation and enhance energy efficiency
- Two ventilation limit latches standard, child safety latches optional
- Extruded aluminum half screen with fiberglass mesh standard; full screen optional



# 2000 Sliding Window

## FEATURES

- Convenient lift-out sash for easy cleaning
- Track and adjustable roller system for ease of operation
- Double-opposed weatherstrip on sash ensures smooth operation
- High DP performance option, featuring reinforced sash, ensures security and peace of mind in threatening weather
- One ventilation limit latch standard or child safety latch optional at bottom rail
- Interior and exterior accessory grooves allows for a wide selection of installation options
- Extruded aluminum half screen with fiberglass mesh



High DP Performance option features reinforced meeting rails



High DP Performance option features reinforced rails and stiles

*Images show metal reinforcement in a double hung configuration. Also available for a sliding window.*

# 5100 Casement & Awning

## FEATURES

- Interior and exterior accessory grooves allows for a wide selection of installation options
- Available right- or left-hand operating
- Sash opens 90° for ventilation and easy cleaning
- Single-handle multi-point locking system
- Awning windows can be combined / mullied / stacked with fixed casement picture windows
- Adjustable hinges
- Full screen with fiberglass mesh



Color-coordinated lock features a sleek low profile that won't interfere with window dressing



Color-coordinated crank handle



Split-arm gear operator on sizes up to 36" x 60". Dual-arm gear operator on larger units

For more information, call **888-9PLYGEM** or visit [plygem.com/windows](http://plygem.com/windows)



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**Not all patio doors are created equal.**

Doors are a reflection of style and a reflection of luxury. Make the best possible statement with Ply Gem MIRA Aluminum-Clad Wood Patio Doors. Designed with exquisite craftsmanship and one-of-a-kind details, MIRA products can help you bring your unique vision to life. When you buy a Ply Gem window or door, you can take comfort in knowing that it's built with energy efficiency and long-lasting quality in mind.

Ply Gem is proud to be part of the Cornerstone Building Brands family—North America's #1 Manufacturer of windows, vinyl siding and metal accessories. As the largest manufacturer of residential and commercial exterior building products in North America, we provide a comprehensive range of products to meet all your exterior home needs. And with our 75 years of experience, industry-leading customer service, and established local partnerships, you've got a company you can count on.











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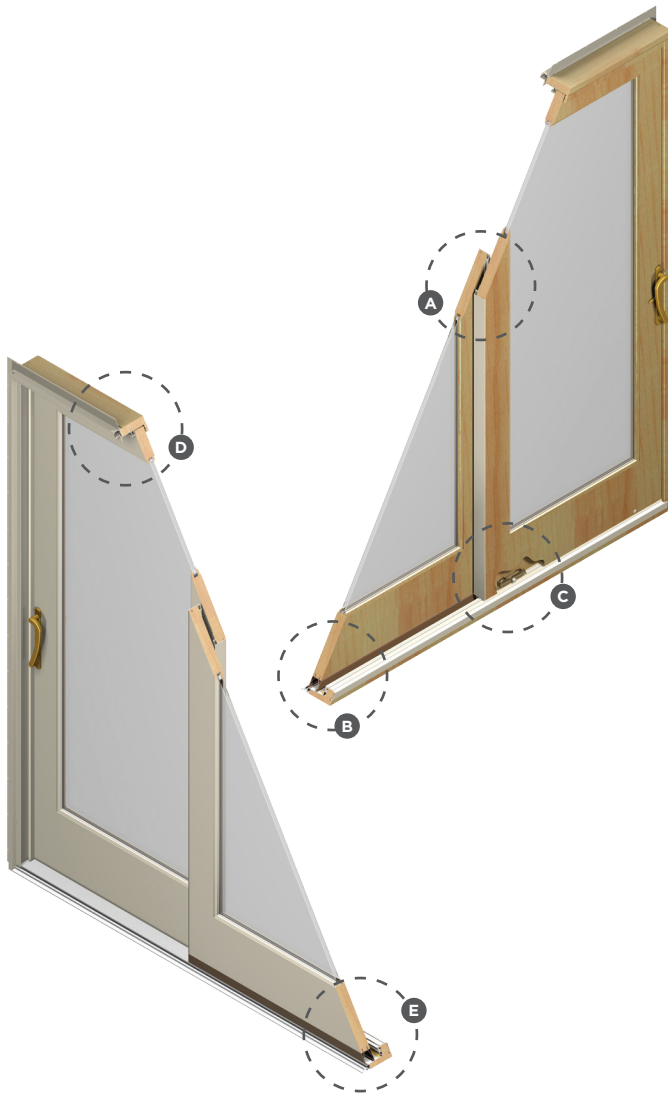
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## **FRENCH SLIDING PATIO DOOR**

MIRA Aluminum-Clad Wood French Sliding Patio Doors offer timeless style in a space-saving sliding configuration. This premium patio door features full-perimeter weatherstripping for air-tight performance and adjustable rollers for smooth operation. A standard multi-point lock system adds enhanced security. Beauty and performance never looked so good.

# FRENCH SLIDING PATIO DOOR



## STANDARD FEATURES

- Stainless steel rollers for smooth operation and long lasting performance
- Aluminum sill deck in medium bronze with durable stainless steel track on interior of sill for smooth sliding operation
- Dual finseal weatherstripping over the full height of the door and 1/2" tall finseal weatherstripping for increased protection against leaks for reduced air infiltration
- 2-point locking system
- 1 3/4" panels with wide stiles and rails for a true French look
- 4 9/16" jambs made of clear wood eliminate extensive drywall work
- Select clear wood ready for paint or stain to match any interior décor
- Integral face groove allows for easy mulling and exterior accessory application
- Pre-punched nailing fin for simple installation
- AAMA 2604 paint finish provides superior resistance to chalking and fading
- Energy-efficient Warm Edge insulating tempered HP glass helps reduce energy costs and fabric fading – optional HP<sup>SC</sup>, HP2+, HP2+<sup>SC</sup>, HP2<sup>MAX</sup>, HP2<sup>MAX</sup><sup>SC</sup>, HP3<sup>MAX</sup> or HP3<sup>MAX</sup><sup>SC</sup>
- Vacuum-treated, solid wood components resist damage from water and fungus
- Durable .050 extruded aluminum cladding on exterior surfaces of frame and .080" on panels resists dings and dents while providing structural integrity

1. HP glass combines Low-E with argon gas fill for high performance.

2. Units up to call size 60610 are rated LC50 straight out of the box.

3. Impact Rated units are available in select sizes and configurations.



Hollow and foam filled bulb weatherstripping over the full height of the door for reduced air infiltration



Durable stainless steel track on interior of the sill for smooth sliding operation



Stainless steel rollers for smooth operation and long-lasting performance



Accessory grooves for mulling and casing application



Hollow and foam filled bulb weatherstripping for increased protection against leaks



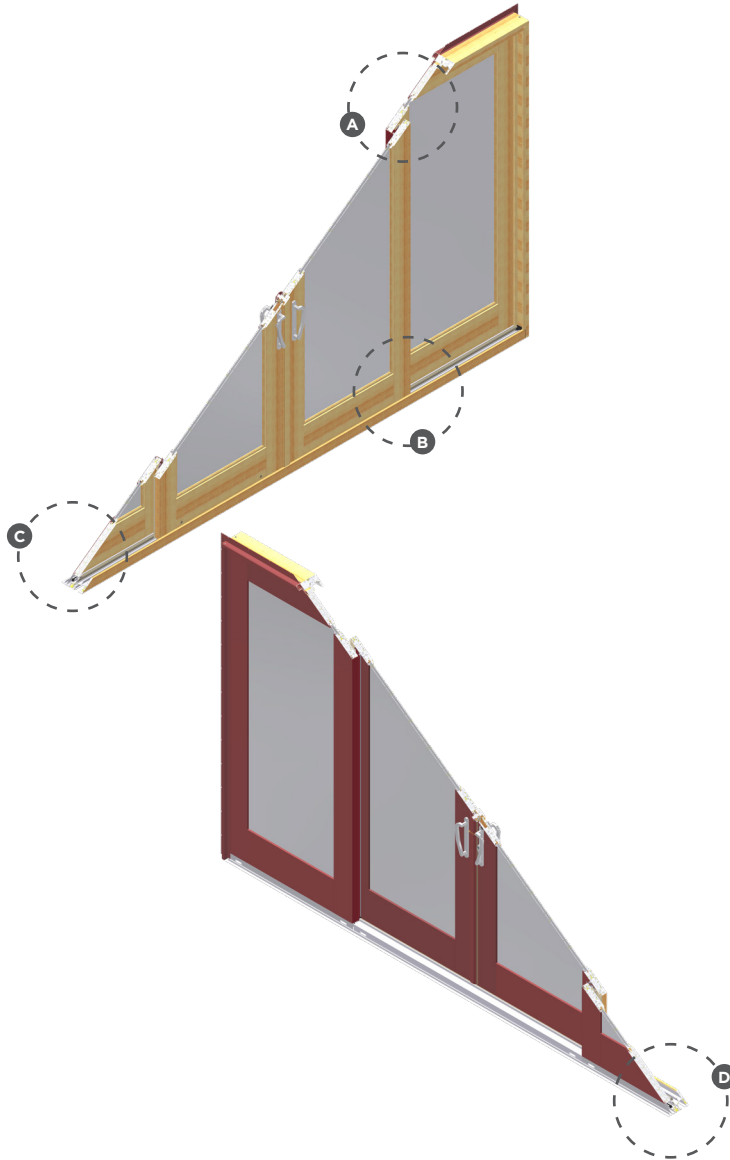


## BI-PARTING SLIDING PATIO DOOR

MIRA Aluminum-Clad Wood Bi-Parting Patio Doors are the perfect option for transitional living. The door provides a large opening for movement into and out of your home. This premium patio door features full-perimeter weatherstripping for air-tight performance and adjustable rollers for smooth operation. A standard multi-point lock system adds enhanced security. Beauty and performance and an expansive opening never looked so good.



# BI-PARTING SLIDING PATIO DOOR

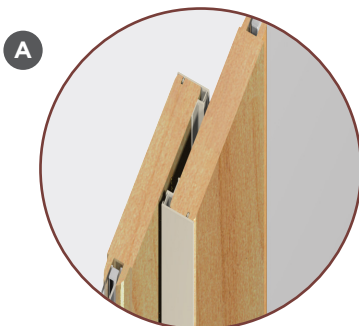


## STANDARD FEATURES

- Stainless steel rollers for smooth operation and long lasting performance
- Aluminum sill deck in medium bronze with durable stainless steel track on interior of sill for smooth sliding operation
- Dual finseal weatherstripping over the full height of the door and 1/2" tall finseal weatherstripping for increased protection against leaks for reduced air infiltration
- Durable .080 extruded aluminum cladding on exterior surface of panels and .050 extruded aluminum cladding on frames resists dings and dents while providing structural integrity
- Multi-point lock system
- 1 3/4" panels with wide stiles and rails for an authentic French look
- Select clear wood interior ready for paint or stain to match any interior décor (also available primed or prefinished in white, black or off-white)
- Integral face groove allows for easy mulling and exterior accessory application
- Energy-efficient Warm Edge insulating tempered HP glass (Low-E/argon gas fill) helps reduce energy costs and fabric fading
- AAMA 2604 paint finish provides superior resistance to chalking and fading

1. HP glass combines Low-E with argon gas fill for high performance

2. Impact Rated units are available in select sizes and configurations.



Hollow and foam filled bulb weatherstripping over the full height of the door for reduced air infiltration



Durable stainless steel track on interior of the sill for smooth sliding operation



Stainless steel rollers for smooth operation and long-lasting performance



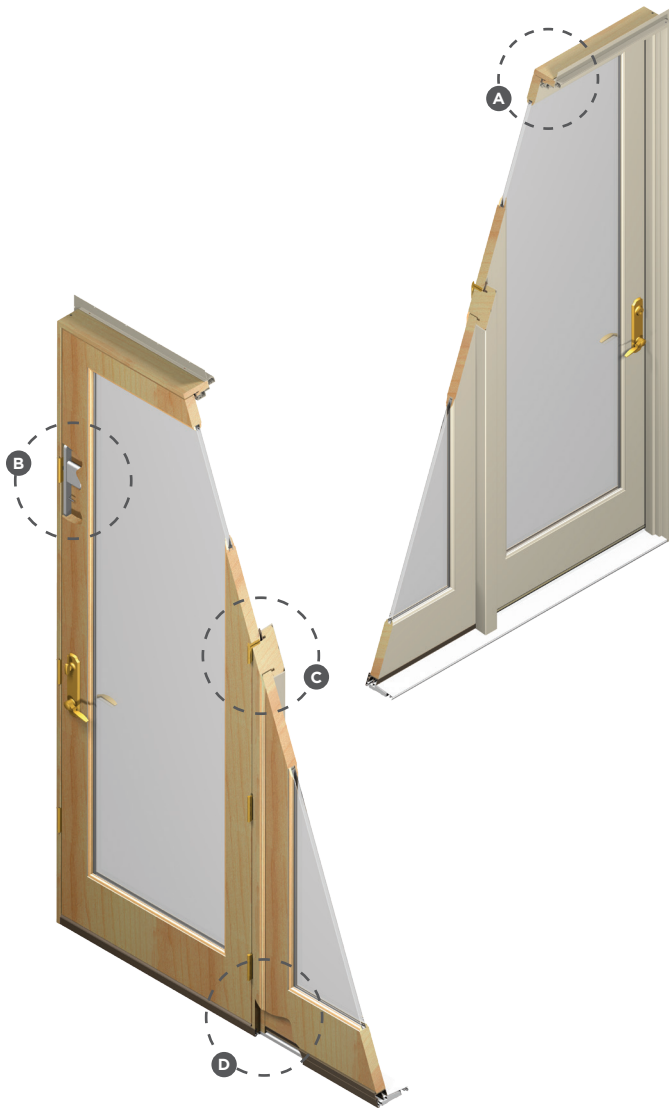
Hollow and foam filled bulb weatherstripping for increased protection against leaks



## HINGED PATIO DOOR

MIRA Aluminum-Clad Wood Hinged Patio Doors are available in half-lite and three-quarter-lite panels. Single panel, two-panel, three-panel and four-panel configurations can be made to fill your unique design needs. With Warm Edge insulating Low-E glass and argon gas fill plus full-perimeter weatherstripping, our attention to energy-efficiency is unmatched, while details like 1½" center mulls mean these doors are as sturdy as they are beautiful.





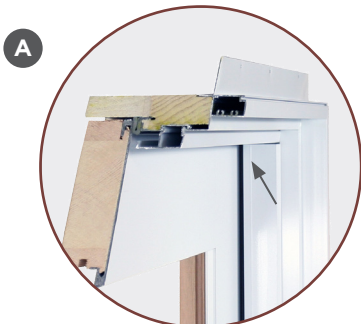
## STANDARD FEATURES

- Adjustable hinges standard for smooth operation. Flat hinges optional.
- Center mull is integrated into the sill design for higher structural performance
- Full-perimeter weatherstripping for air-tight performance and smooth operation
- Multi-point lock system
- 3/4" panels with wide stiles and rails for a true French look
- 4 9/16" jambs made of clear wood eliminate extensive drywall work
- Select clear wood ready for paint or stain to match any interior décor
- Integral face groove allows for easy mulling and exterior accessory application
- Pre-punched nailing fin for simple installation
- AAMA 2604 paint finish provides superior resistance to chalking and fading
- Energy-efficient Warm Edge insulating tempered HP glass helps reduce energy costs and fabric fading – optional HP<sup>SC</sup>, HP2+, HP2+<sup>SC</sup>, HP2<sup>MAX</sup>, HP2<sup>MAX</sup><sup>SC</sup>, HP3<sup>MAX</sup> Or HP3<sup>MAX</sup><sup>SC</sup>
- Vacuum-treated, solid wood components resist damage from water and fungus
- Durable .050 extruded aluminum cladding on exterior surfaces of frame and .080" on panels resists dings and dents while providing structural integrity. Available with ADA compliant sill

1. HP glass combines Low-E with argon gas fill for high performance.

2. Available option.

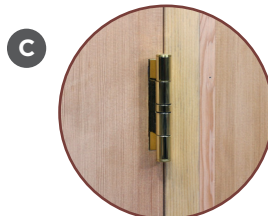
3. Impact Rated units are available in select sizes and configurations.



Integral face groove allows for easy mulling and exterior accessory application



Multi-point lock system; multi-point locking hardware with stainless steel faceplates



Adjustable hinges are standard for smooth operation

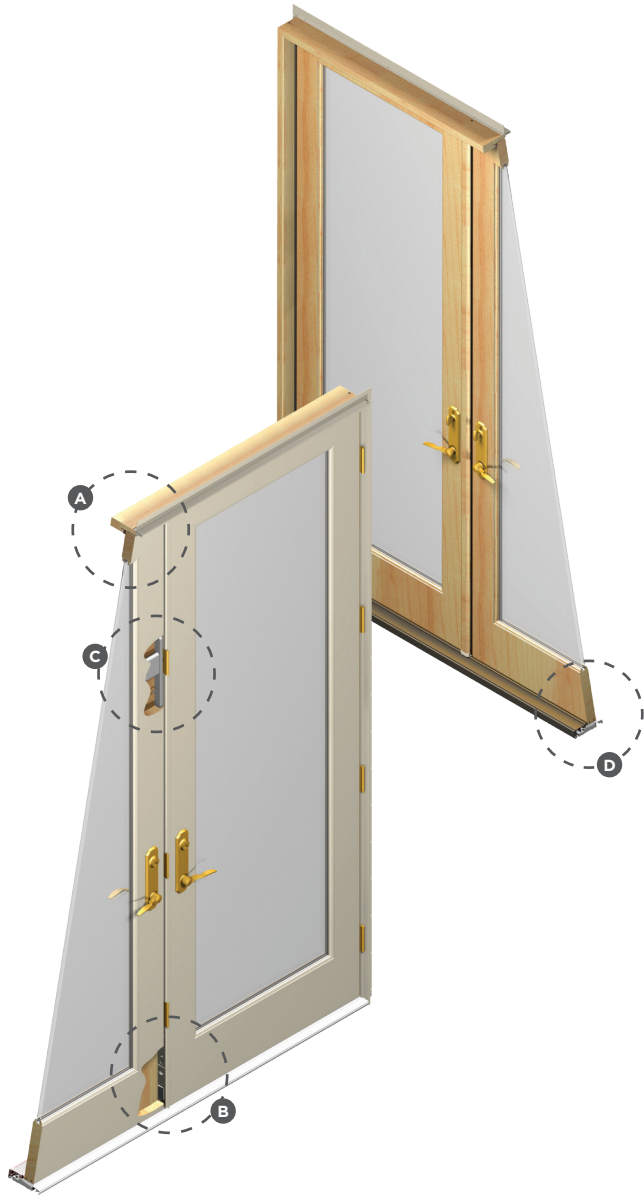


Center mull is integrated into the sill design for higher structural performance



## FRENCH OUTSWING PATIO DOOR

MIRA Aluminum-Clad Wood French Outswing Patio Doors provide classic style coupled with unbeatable performance. This high-quality, aluminum-clad wood patio door features adjustable hinges for smooth operation. Warm edge insulating Low-E glass and argon gas fill, double weatherstrip sealing and a bumper sill provide extra energy-efficiency, while wide stiles and rails give you a true French look.



## STANDARD FEATURES

- Adjustable hinges are standard for smooth operation. Ball Bearing flat hinges optional
- Handle activated shoot bolts at the head and sill for added security
- Aluminum sill deck to prevent sag and resist dents
- Aluminum astragal with stainable wood interior
- Full-perimeter weatherstripping for air-tight performance and smooth operation
- Multi-point lock system
- 1 3/4" panels with wide stiles and rails for a true French look
- 4 1/16" jambs made of clear wood eliminate extensive drywall work
- Select clear wood ready for paint or stain to match any interior décor
- Integral face groove allows for easy mulling and exterior accessory application
- Pre-punched nailing fin for simple installation
- AAMA 2604 paint finish provides superior resistance to chalking and fading
- Energy-efficient Warm Edge insulating tempered HP glass helps reduce energy costs and fabric fading – optional HP<sup>SC</sup>, HP2+, HP2+<sup>SC</sup>, HP2<sup>MAX</sup>, HP2<sup>MAX</sup><sup>SC</sup>, HP3<sup>MAX</sup> or HP3<sup>MAX</sup><sup>SC</sup>
- Vacuum-treated, solid wood components resist damage from water and fungus
- Durable .050 extruded aluminum cladding on exterior surfaces of frame and .080" on panels resists dings and dents while providing structural integrity. Available with ADA compliant sill

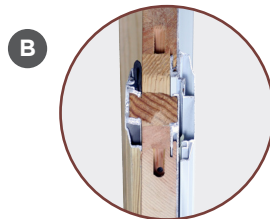
1. HP glass combines Low-E with argon gas fill for high performance.

2. Available option.

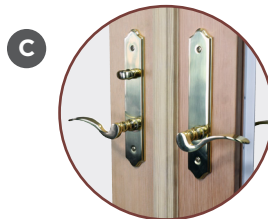
3. Impact Rated units are available in select sizes and configurations.



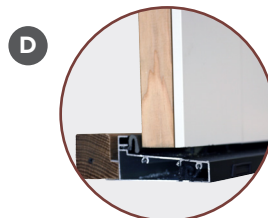
Integral face groove allows for easy mulling and exterior accessory application



Locking flush bolts at the head and sill for increased structural performance and security



Multi-point lock system; multi-point locking hardware with stainless steel faceplates



Bulb weatherstripping and wept sill for increased protection against leaks



## FRENCH INSWING PATIO DOOR

MIRA Aluminum-Clad Wood French Inswing Patio Doors provide classic style and unbeatable performance. These doors feature wide stiles and rails coupled with 1 ¾" door panels to give you a true French look. Adjustable hinges allow for smooth operation, while Warm Edge Low-E insulating glass and argon gas fill, plus full-perimeter weatherstripping keep you comfortable in any season.

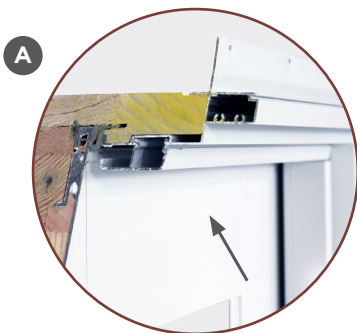


## STANDARD FEATURES

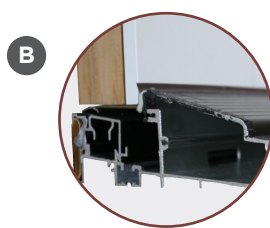
- Adjustable hinges are standard for smooth operation
- Handle activated shoot bolts at the head and sill for added security
- Aluminum sill deck to prevent sag and resist dents
- Aluminum astragal with stainable wood interior
- Full-perimeter weatherstripping for air-tight performance and smooth operation
- Multi-point lock system
- 1 3/4" panels with wide stiles and rails for a true French look
- 4 1/16" jambs made of clear wood eliminate extensive drywall work
- Select clear wood ready for paint or stain to match any interior décor
- Integral face groove allows for easy mulling and exterior accessory application
- Pre-punched nailing fin for simple installation
- AAMA 2604 paint finish provides superior resistance to chalking and fading
- Energy-efficient Warm Edge insulating tempered HP glass helps reduce energy costs and fabric fading – optional HP<sup>SC</sup>, HP2+, HP2+<sup>SC</sup>, HP2<sup>MAX</sup>, HP2<sup>MAX</sup><sup>SC</sup>, HP3<sup>MAX</sup> or HP3<sup>MAX</sup><sup>SC</sup>
- Vacuum-treated, solid wood components resist damage from water and fungus
- Durable .050 extruded aluminum cladding on exterior surfaces of frame and .080" on panels resists dings and dents while providing structural integrity. Available with ADA compliant sill

1. HP glass combines Low-E with argon gas fill for high performance.

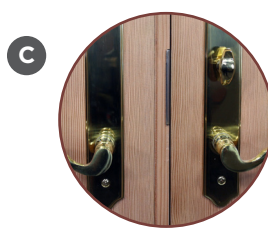
2. Available option.



Integral face groove allows for easy mulling and exterior accessory application



Aluminum sill deck to prevent sag and resist dents



Multi-point lock system; multi-point locking hardware with stainless steel faceplates



Locking flush bolts at the head and sill for increased structural performance and security

# NFRC THERMAL PERFORMANCE DATA

BI-PARTING & FRENCH SLIDING PATIO DOOR				
	R Value	NFRC CERTIFIED		
		U Factor	SHGC	VT
WITH WARM EDGE				
7/8" HP	2.70	0.37	0.22	0.4
7/8" HP <sup>SC</sup>	2.70	0.37	0.17	0.31
7/8" HP2+	2.94	0.34	0.21	0.39
7/8" HP2+ <sup>SC</sup>	2.94	0.34	0.16	0.31
1" HP2 <sub>MAX</sub>	3.23	0.31	0.19	0.31
1" HP2 <sub>MAX</sub> <sup>SC</sup>	3.23	0.31	0.14	0.19
1" HP3 <sub>MAX</sub>	3.33	0.3	0.17	0.3
1" HP3 <sub>MAX</sub> <sup>SC</sup>	3.33	0.3	0.12	0.19
WITH WARM EDGE+				
7/8" HP	2.94	0.34	0.22	0.4
7/8" HP <sup>SC</sup>	2.94	0.34	0.17	0.31
7/8" HP2+	3.13	0.32	0.21	0.39
7/8" HP2+ <sup>SC</sup>	3.03	0.33	0.16	0.31
1" HP2 <sub>MAX</sub>	3.33	0.3	0.19	0.31
1" HP2 <sub>MAX</sub> <sup>SC</sup>	3.33	0.3	0.14	0.19
1" HP3 <sub>MAX</sub>	3.45	0.29	0.17	0.3
1" HP3 <sub>MAX</sub> <sup>SC</sup>	3.45	0.29	0.12	0.19

FRENCH INSWING PATIO DOOR				
	R Value	NFRC CERTIFIED		
		U Factor	SHGC	VT
WITH WARM EDGE				
7/8" HP	2.86	0.35	0.17	0.32
7/8" HP <sup>SC</sup>	2.94	0.34	0.13	0.25
7/8" HP2+	3.13	0.32	0.17	0.31
7/8" HP2+ <sup>SC</sup>	3.13	0.32	0.13	0.24
1" HP2 <sub>MAX</sub>	3.33	0.3	0.15	0.24
1" HP2 <sub>MAX</sub> <sup>SC</sup>	3.33	0.3	0.11	0.15
1" HP3 <sub>MAX</sub>	3.45	0.29	0.14	0.24
1" HP3 <sub>MAX</sub> <sup>SC</sup>	3.45	0.29	0.1	0.15
WITH WARM EDGE+				
7/8" HP	3.03	0.33	0.17	0.32
7/8" HP <sup>SC</sup>	3.03	0.33	0.13	0.25
7/8" HP2+	3.23	0.31	0.17	0.31
7/8" HP2+ <sup>SC</sup>	3.13	0.32	0.13	0.24
1" HP2 <sub>MAX</sub>	3.45	0.29	0.15	0.24
1" HP2 <sub>MAX</sub> <sup>SC</sup>	3.45	0.29	0.11	0.15
1" HP3 <sub>MAX</sub>	3.57	0.28	0.14	0.24
1" HP3 <sub>MAX</sub> <sup>SC</sup>	3.57	0.28	0.1	0.15

HINGED PATIO DOOR				
	R Value	NFRC CERTIFIED		
		U Factor	SHGC	VT
WITH WARM EDGE				
7/8" HP	2.86	0.35	0.17	0.32
7/8" HP <sup>SC</sup>	2.94	0.34	0.13	0.25
7/8" HP2+	3.13	0.32	0.17	0.31
7/8" HP2+ <sup>SC</sup>	3.13	0.32	0.13	0.24
1" HP2 <sub>MAX</sub>	3.33	0.3	0.15	0.24
1" HP2 <sub>MAX</sub> <sup>SC</sup>	3.33	0.3	0.11	0.15
1" HP3 <sub>MAX</sub>	3.45	0.29	0.14	0.24
1" HP3 <sub>MAX</sub> <sup>SC</sup>	3.45	0.29	0.1	0.15
WITH WARM EDGE+				
7/8" HP	3.03	0.33	0.17	0.32
7/8" HP <sup>SC</sup>	3.03	0.33	0.13	0.25
7/8" HP2+	3.23	0.31	0.17	0.31
7/8" HP2+ <sup>SC</sup>	3.23	0.31	0.13	0.24
1" HP2 <sub>MAX</sub>	3.45	0.29	0.15	0.24
1" HP2 <sub>MAX</sub> <sup>SC</sup>	3.45	0.29	0.11	0.15
1" HP3 <sub>MAX</sub>	3.57	0.28	0.14	0.24
1" HP3 <sub>MAX</sub> <sup>SC</sup>	3.57	0.28	0.1	0.15

FRENCH OUTSWING PATIO DOOR				
	R Value	NFRC CERTIFIED		
		U Factor	SHGC	VT
WITH WARM EDGE				
7/8" HP	3.03	0.33	0.17	0.32
7/8" HP <sup>SC</sup>	3.03	0.33	0.13	0.25
7/8" HP2+	3.23	0.31	0.17	0.31
7/8" HP2+ <sup>SC</sup>	3.23	0.31	0.13	0.24
1" HP2 <sub>MAX</sub>	3.57	0.28	0.15	0.24
1" HP2 <sub>MAX</sub> <sup>SC</sup>	3.57	0.28	0.11	0.15
1" HP3 <sub>MAX</sub>	3.70	0.27	0.13	0.24
1" HP3 <sub>MAX</sub> <sup>SC</sup>	3.70	0.27	0.1	0.15
WITH WARM EDGE+				
7/8" HP	3.13	0.32	0.17	0.32
7/8" HP <sup>SC</sup>	3.13	0.32	0.13	0.25
7/8" HP2+	3.33	0.3	0.17	0.31
7/8" HP2+ <sup>SC</sup>	3.33	0.3	0.13	0.24
1" HP2 <sub>MAX</sub>	3.70	0.27	0.15	0.24
1" HP2 <sub>MAX</sub> <sup>SC</sup>	3.70	0.27	0.11	0.15
1" HP3 <sub>MAX</sub>	3.85	0.26	0.13	0.24
1" HP3 <sub>MAX</sub> <sup>SC</sup>	3.85	0.26	0.1	0.15

**NOTE:**

All units rated in accordance with NFRC 100/200 standards by a NAMI Accredited lab. Performance values reflect the performance of units tested with the following configuration: 3mm glass, no grilles and Warm Edge spacer system and Warm Edge+ spacer system. Optional Low-E glass packages are combined with capillary tubes to address performance needs in high altitude applications.

# EXPLANATION OF GLASS PACKAGES



## LOW-E GLASS PACKAGES

Our Low-E glass packages combine Low-E and WarmEdge 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-ESC (solar cooling) glass packages are 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 — Dual-pane with one lite of Low-E

Low-E<sup>SC</sup> — Dual-pane with one lite of solar cooling Low-E

Low-E2+ — Dual-pane with one lite of Low-E and one lite of Interior Surface Low-E

Low-E2+<sup>SC</sup> — Dual-pane with one lite of solar cooling Low-E and one lite of Interior Surface Low-E

Low-E<sup>PS</sup> — Dual-Pane with one lite of Passive Solar Low-E

Low-E2+<sup>PS</sup> — Dual-Pane with one lite of Passive



## HP GLASS PACKAGES

Our HP glass packages combine Low-E with argon gas fill and WarmEdge 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 packages are 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<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

HP2+<sup>SC</sup> — One lite of solar cooling optimized Low-E and one lite of Interior Surface Low-E with argon gas fill

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

# LOW-E & ENERGY STAR

## 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.

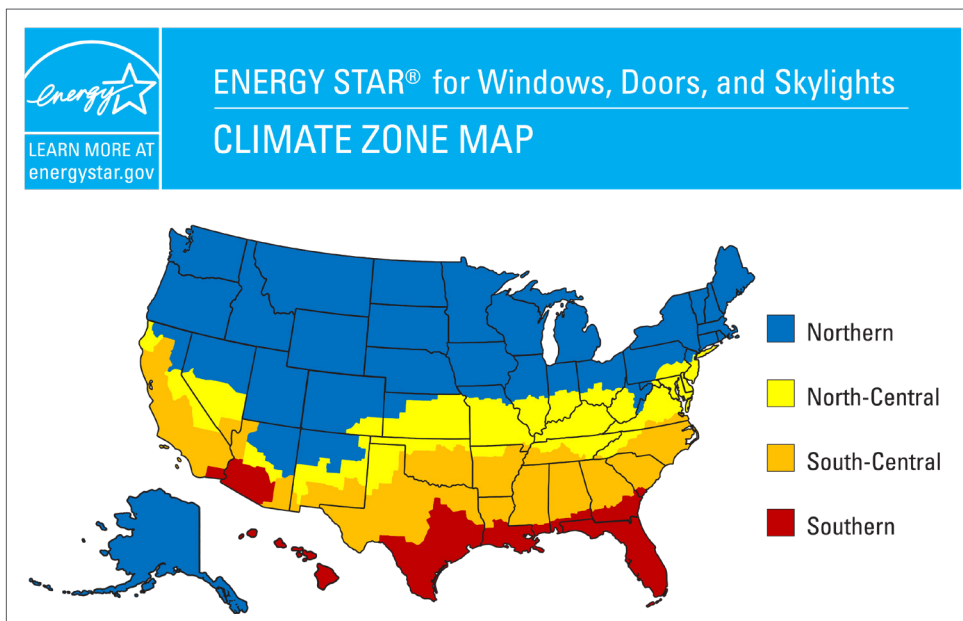
Our *Interior Surface Low-E* is engineered to have the characteristic window manufacturers and homeowners need most — lower U-Factor— and is applied to the surface of the glass you can touch inside your home, providing increased comfort and improved energy savings. One major benefit is a decrease in 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® VERSION 7.0



Ply Gem MIRA Aluminum-Clad Wood 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.

ENERGY STAR Version 7.0 – Effective Date 10/23/2023





# GLASS OPTIONS, SCREENS & IMPACT RATED INFO



## GLASS OPTIONS

- Low-E
- Low-E<sup>SC</sup>
- Low-E2+
- Low-E2+<sup>SC</sup>
- HP
- HP<sup>SC</sup>
- HP2+
- HP2+<sup>SC</sup>
- HP<sup>PS</sup>
- HP2+<sup>PS</sup>
- HP2<sup>MAX</sup>
- HP2<sup>MAX</sup><sup>SC</sup>
- HP3<sup>MAX</sup>
- HP3<sup>MAX</sup><sup>SC</sup>
- Tinted
- Obscure
- Black Spandrel
- Tempered\*

\* Tempered glass is standard on sliding patio doors.

NOTE: Low-E glass packages available to address high altitude applications. Not all glass options are available on all products. See page 25 for explanation of glass packages. Contact your Ply Gem Windows & Doors sales representative for a full list of MIRA Aluminum-Clad Wood glass thickness options and performance values.

## SCREENS

Color-matched full-length aluminum frames with Optimal Viewing screens improve your view without sacrificing strength and durability. Sliding patio door screens are equipped with stainless steel rollers for smooth operation. FlexScreens, which come standard for casements and awnings, hide in the window screen pocket which improve sight lines and eliminate the need for color matching the metal frame.



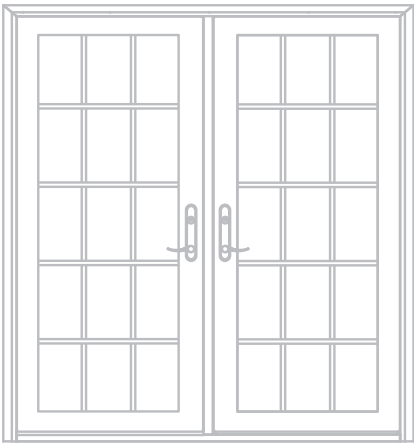
## IMPACT RATED

- Rated in accordance with International Residential Codes and meets impact requirements in U.S. Zone 2 (110-120 mph) and Zone 3 (120-140 mph)
- Passes ASTM E1886/1996 Large Missile Impact and Cycling Tests
- Meets AAMA/WDMA/CSA 101/I.S.2/A440 standards. Florida Building Commission approved
- Meets wind-borne debris specifications for large missile D (8' missile for Impact Zone 3 at 50 ft/sec) and small missile C (4' missile for Impact Zone 2 at 40 ft/sec)
- Double hung units are constructed to meet LC50 rating
- Casement units feature corrosion-resistant coastal hardware and are constructed to meet LC60 rating
- French outswing patio doors feature corrosion-resistant coastal hardware in bright brass, satin nickel, or oil-rubbed bronze finishes and are constructed to meet LC50 rating



# GRILLE PATTERN & STYLES

## STANDARD GRILLE PATTERNS



Colonial



Prairie



Plaza



Perimeter Prairie

## GRILLE STYLES



5/8" Flat GBG



7/8" Flat GBG



5/8" Sculptured GBG



1" Contoured GBG



7/8" SDL



1/4" SDL



7/8" Full Surround Removable

GBG = Grilles-Between-the-Glass  
SDL = Simulated-Divided-Light

Visit [plygem.com/MIRA](http://plygem.com/MIRA) for optional grille patterns.



THE **Standard**Collection

Our standard colors are as durable as they are beautiful. Choose from three eye-catching hues.



THE **Signature**Collection

From subtle shades to vibrant hues, Signature colors offer a full spectrum of fresh choices. Choose from 32 colors.



THE **Radiance**Collection

Our pearlized color process produces rich color with a metallic sheen. Colors become more vivid in bright light. Choose from 11 colors.



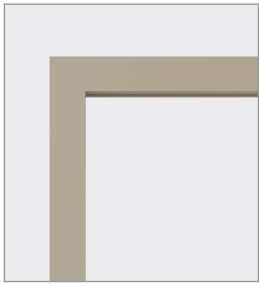
GET **Custom**Options

There's no limit to your color palette with Ply Gem. If you've got a particular color in mind that we don't offer, bring in a sample and we'll match it.

NOTE: Colors shown are close approximations and may not be accurate representations for color matching. Please request color swatches from your Ply Gem sales representative to do so. Additional Signature and Radiance color options available ranging from dark bold hues to vibrant metallics.

# EXTERIOR CASING, SHAPES & HARDWARE

## EXTERIOR CASING OPTIONS



J-Channel\*



180 Brick Mould



3/4" Williamsburg\*



3/2" Flat\*

\*Available on non-curved shaped windows and doors only.

## ARCHITECTURAL SHAPES



Elliptical



Rectangle



Arch Transom



Circle Head

## DOOR HARDWARE OPTIONS\*

### HINGED PATIO DOORS



Traditional  
Bright Brass



Traditional  
Antique Brass



Traditional  
Satin Nickel



Traditional  
Oil Rubbed Bronze



Contemporary  
White



Contemporary  
Brushed Chrome



Contemporary  
Satin Nickel



Contemporary  
Black

### SLIDING PATIO DOORS



Bright Brass



Antique Brass



Satin Nickel



Oil Rubbed Bronze

\* French outswing impact patio door handles feature PVD (coastal) finishes and are only available in traditional style, and in bright brass, satin nickel and oil-rubbed bronze.



It's more than a window or door.  
**It's a whole new point of view.**





HISTORICAL ATLAS  
New York Interiors  
LUXURY HOTELS SPA & WELLNESS



[plygem.com/windows-doors](http://plygem.com/windows-doors)



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PART OF THE CORNERSTONE BUILDING BRANDS FAMILY | SIDING + ACCESSORIES | WINDOWS + DOORS | STONE VENEER | TRIM + MOULDINGS | FENCE + RAILING







**Not all windows and doors are created equal.** Windows and doors are a reflection of style and a reflection of luxury. Make the best possible statement with Ply Gem MIRA Aluminum-Clad Wood Windows & Doors. Designed with exquisite craftsmanship and one-of-a-kind details, MIRA windows and doors can help you bring your unique vision to life. When you buy a Ply Gem window or door, you can take comfort in knowing that it's built with energy efficiency and long-lasting quality in mind.

Ply Gem is proud to be part of the Cornerstone Building Brands family—North America's #1 Manufacturer of windows, vinyl siding and metal accessories. As the largest manufacturer of residential and commercial exterior building products in North America, we provide a comprehensive range of products to meet all your exterior home needs. And with our 75 years of experience, industry-leading customer service, and established local partnerships, you've got a company you can count on.





200





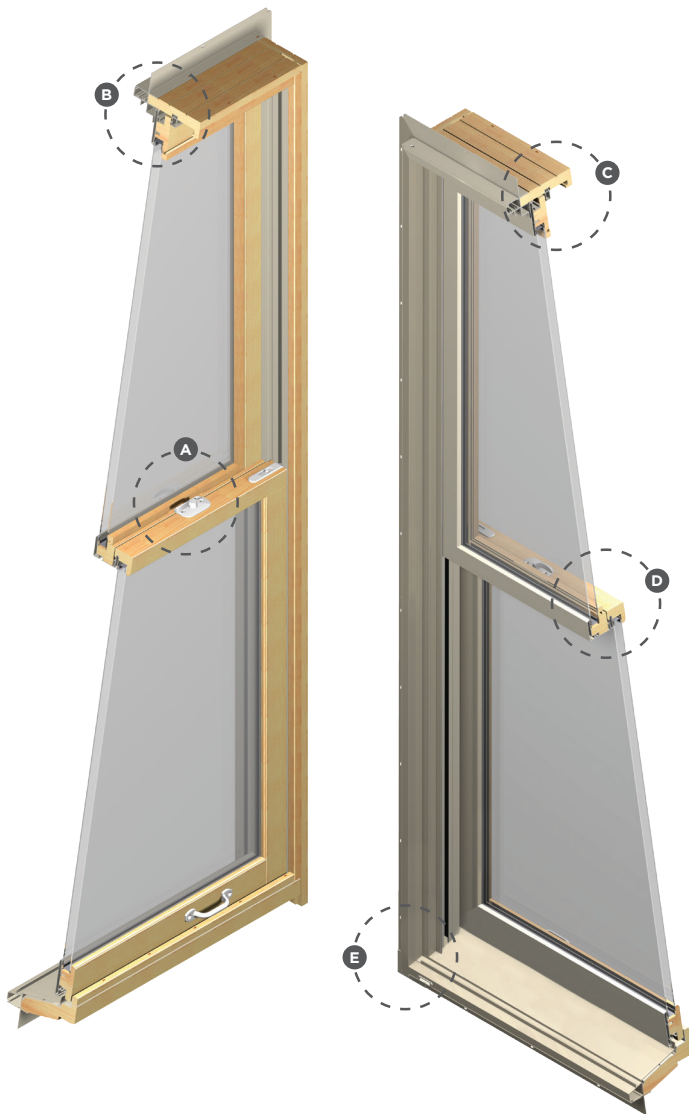
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## DOUBLE HUNG

Ply Gem MIRA Aluminum-Clad Wood Double Hung Windows feature tilt-in sashes to make cleaning a breeze, weatherstripping for air-tight performance, and cam-action sash locks for added security. A wide bottom rail, 14° sloped sill and sturdy 6/4 sash construction help create a historically accurate design while delivering superior performance.



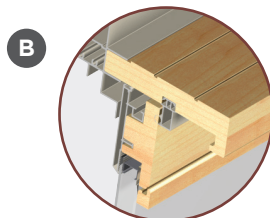
## STANDARD FEATURES

- Tilt-in sash design for easy cleaning from the safety of inside your home
- Sash interlock provides superior structural performance
- Stepped jambliner design for superior structural performance while maximizing available daylight opening
- Three-piece jambliner allows for different interior and exterior jambliner colors
- 6/4 sash construction for historically accurate wood window look
- 4 3/16" jambs made of clear wood eliminate extensive drywall work
- Sash and interior made with select clear wood; ready for paint or stain to match any interior décor
- Integral face groove allows for easy mulling and exterior accessory application
- Pre-punched nailing fin for simple installation
- AAMA 2604 paint finish provides superior resistance to chalking and fading
- Energy-efficient Warm Edge insulating HP glass helps reduce energy costs and fabric fading – optional HP<sup>SC</sup>, HP2+, HP2+<sup>SC</sup>, HP<sup>PS</sup> or HP2+<sup>PS</sup>
- Vacuum-treated, solid wood components resist damage from water and fungus
- Durable .050 extruded aluminum cladding on all exterior frame surfaces resists dings and dents while providing structural integrity

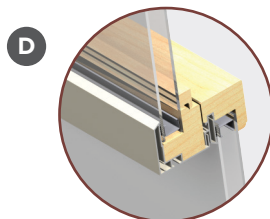
1. HP glass combines Low-E with argon gas fill for high performance.  
 2. Impact Rated units are available in select sizes and configurations.



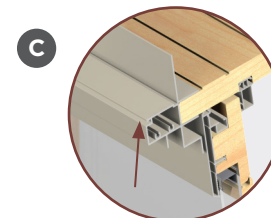
Flush-mounted tilt latches and lock and keeper with matching finish fasteners create a clean, high-quality appearance



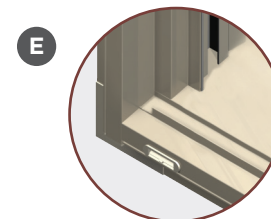
One-piece, full 4 3/16" head and side jambs with inside stop blind nailed to reduce the number of visible nail holes



Aluminum sash interlock provides superior structural performance



Accessory grooves for mulling and casing application, screen pocket in head and sill for spring-loaded screen



Water management system for increased water performance



## CASEMENT & AWNING

MIRA Aluminum-Clad Wood Casement & Awning windows are proof that structural integrity and high performance can be beautiful. Featuring a recessed sash, a sleek, fold-down handle that does not interfere with window treatments, and a 90° opening sash providing maximum air flow and easy cleaning.





## STANDARD FEATURES

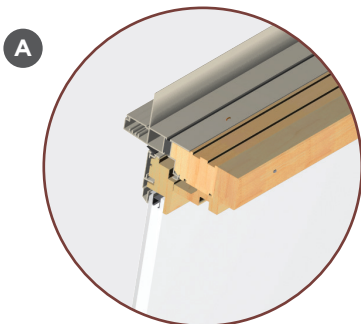
- 90° opening sash for greater airflow and easy cleaning
- Sleek fold-down crank handle minimizes interference with window treatments
- 6/4 sash construction for historically accurate wood window look
- 4 3/16" jamb made of clear wood eliminate extensive drywall work
- Sash and interior made with select clear wood; ready for paint or stain to match any interior décor
- Integral face groove allows for easy mulling and exterior accessory application
- Pre-punched nailing fin simple installation
- AAMA 2604 paint finish provides superior resistance to chalking and fading
- Energy-efficient Warm Edge insulating HP glass helps reduce energy costs and fabric fading
- Vacuum-treated, solid wood components resist damage from water and fungus
- Durable .050 extruded aluminum cladding on all exterior surfaces resists dings and dents while providing structural integrity
- Stainless steel hardware

1. HP glass combines Low-E with argon gas fill for high performance.

2. Optional Warm Edge+ spacer system for enhanced performance.

3. Standard option.

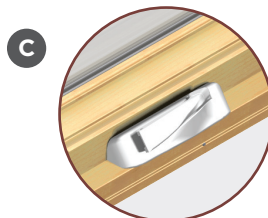
4. Impact Rated units are available in select sizes and configurations.



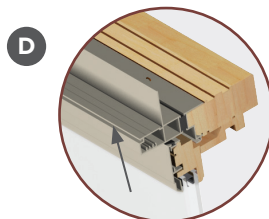
6/4 overall sash width for historical wood look, while recessed sash provides resistance to water infiltration



One lever lock with multi-point keeper system for a secure, weather-tight seal



Sleek fold-down crank handle



Accessory grooves for mulling and casing application



Standard stainless steel hardware approved for coastal use



## CASEMENT OPERATING SHAPES

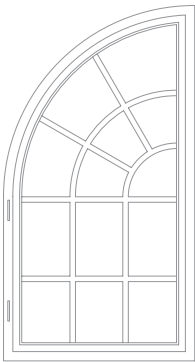
MIRA Aluminum-Clad Wood Operable Shapes offers exceptional craftsmanship and detail to meet your unique vision of home. Expand your design options with operable casements in extended eyebrow, extended quarter eyebrow, extended round and extended quarter round shapes. MIRA operable shape casement windows combine luxury and performance for the ultimate custom look.



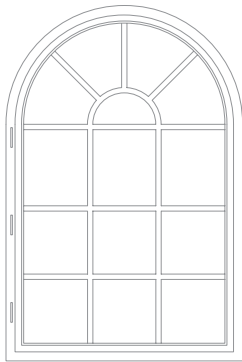
## STANDARD FEATURES

- Sleek fold-down crank handle won't interfere with window treatments
- 6/4 sash construction for historically accurate wood window look
- 4 1/16" jambs made of clear wood eliminate extensive drywall work
- Sash and interior made with select clear wood; ready for paint or stain to match any interior décor (also available in primed or prefinished in white, black and off-white)
- Integral face groove allows for easy mulling and exterior accessory application
- Pre-punched nailing fin for simple installation
- AAMA 2604 paint finish provides superior resistance to chalking and fading
- Energy-efficient warm edge insulating HP glass reduces energy costs while reducing fabric fading
- Vacuum-treated, solid wood components resist damage from water and fungus
- Durable .050 extruded aluminum cladding on all exterior surfaces resists dings and dents while providing structural integrity
- Stainless steel hinges for smooth operation that stands up to the weather

1. Extended Eyebrow: Units are rated C-LC60 straight out of the box; Extended Quarter Eyebrow: Units are rated C-LC50 straight out of the box; Extended Round: Units are rated C-LC50 straight out of the box; Extended Quarter Round: Units are rated C-LC30 straight out of the box. Upgrade available with special glazing to C-LC60.



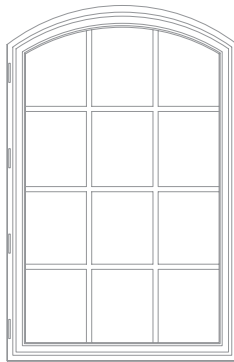
Extended Quarter Round Units



Extended Round Units  
(Standard Hub and Spoke Grille Pattern)



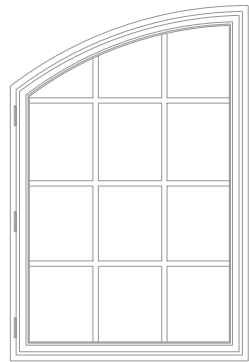
Optional Gothic Grille Pattern



Extended Eyebrow Units  
(Standard Colonial Grille Pattern)



Optional Renaissance Grille Pattern



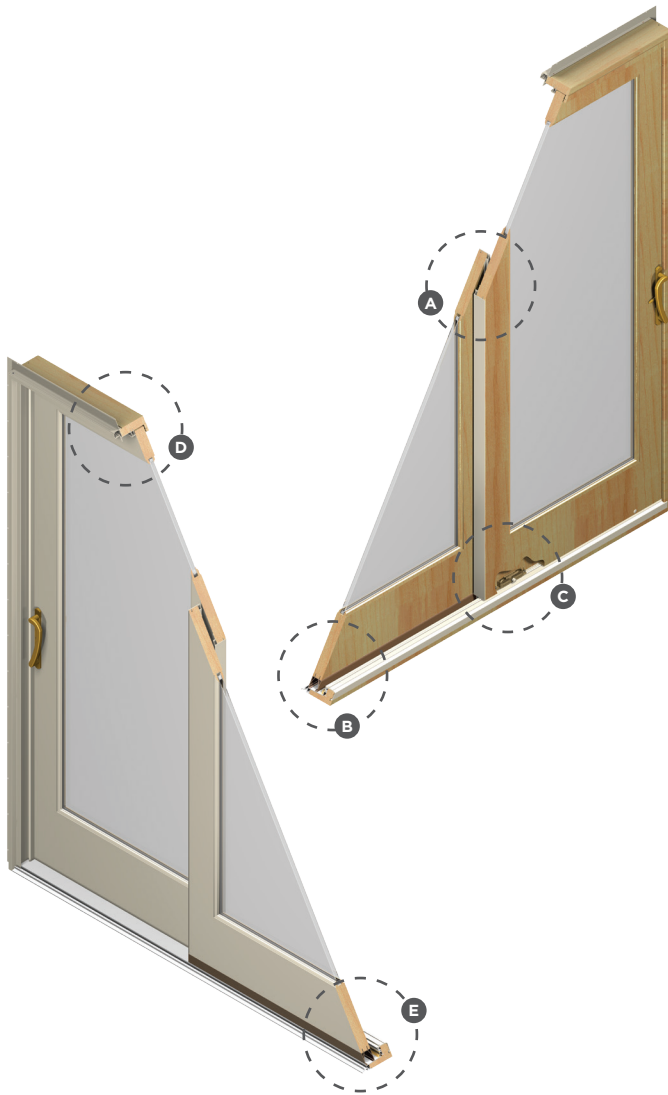
Extended Quarter Eyebrow Units



## **FRENCH SLIDING PATIO DOOR**

MIRA Aluminum-Clad Wood French Sliding Patio Doors offer timeless style in a space-saving sliding configuration. This premium patio door features full-perimeter weatherstripping for air-tight performance and adjustable rollers for smooth operation. A standard multi-point lock system adds enhanced security. Beauty and performance never looked so good.

# FRENCH SLIDING PATIO DOOR



## STANDARD FEATURES

- Stainless steel rollers for smooth operation and long lasting performance
- Aluminum sill deck in medium bronze with durable stainless steel track on interior of sill for smooth sliding operation
- Dual finseal weatherstripping over the full height of the door and 1/2" tall finseal weatherstripping for increased protection against leaks for reduced air infiltration
- 2-point locking system
- 1 3/4" panels with wide stiles and rails for a true French look
- 4 9/16" jambs made of clear wood eliminate extensive drywall work
- Select clear wood ready for paint or stain to match any interior décor
- Integral face groove allows for easy mulling and exterior accessory application
- Pre-punched nailing fin for simple installation
- AAMA 2604 paint finish provides superior resistance to chalking and fading
- Energy-efficient Warm Edge insulating tempered HP glass helps reduce energy costs and fabric fading – optional HP<sup>SC</sup>, HP2+, HP2+<sup>SC</sup>, HP2<sup>MAX</sup>, HP2<sup>MAX</sup><sup>SC</sup>, HP3<sup>MAX</sup> or HP3<sup>MAX</sup><sup>SC</sup>
- Vacuum-treated, solid wood components resist damage from water and fungus
- Durable .050 extruded aluminum cladding on exterior surfaces of frame and .080" on panels resists dings and dents while providing structural integrity

1. HP glass combines Low-E with argon gas fill for high performance.

2. Units up to call size 60610 are rated LC50 straight out of the box.

3. Impact Rated units are available in select sizes and configurations.



Hollow and foam filled bulb weatherstripping over the full height of the door for reduced air infiltration



Durable stainless steel track on interior of the sill for smooth sliding operation



Stainless steel rollers for smooth operation and long-lasting performance



Accessory grooves for mulling and casing application



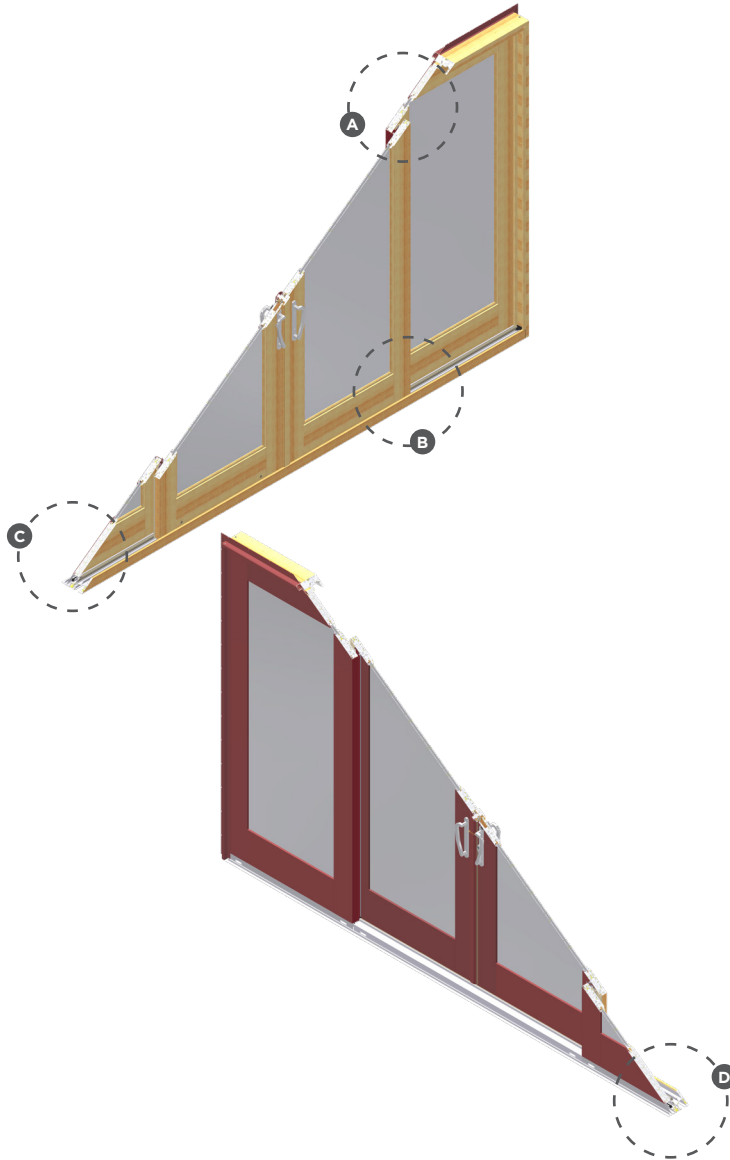
Hollow and foam filled bulb weatherstripping for increased protection against leaks



## BI-PARTING SLIDING PATIO DOOR

MIRA Aluminum-Clad Wood Bi-Parting Patio Doors are the perfect option for transitional living. The door provides a large opening for movement into and out of your home. This premium patio door features full-perimeter weatherstripping for air-tight performance and adjustable rollers for smooth operation. A standard multi-point lock system adds enhanced security. Beauty and performance and an expansive opening never looked so good.

# BI-PARTING SLIDING PATIO DOOR



## STANDARD FEATURES

- Stainless steel rollers for smooth operation and long lasting performance
- Aluminum sill deck in medium bronze with durable stainless steel track on interior of sill for smooth sliding operation
- Dual finseal weatherstripping over the full height of the door and 1/2" tall finseal weatherstripping for increased protection against leaks for reduced air infiltration
- Durable .080 extruded aluminum cladding on exterior surface of panels and .050 extruded aluminum cladding on frames resists dings and dents while providing structural integrity
- Multi-point lock system
- 1 3/4" panels with wide stiles and rails for an authentic French look
- Select clear wood interior ready for paint or stain to match any interior décor (also available primed or prefinished in white, black or off-white)
- Integral face groove allows for easy mulling and exterior accessory application
- Energy-efficient Warm Edge insulating tempered HP glass (Low-E/argon gas fill) helps reduce energy costs and fabric fading
- AAMA 2604 paint finish provides superior resistance to chalking and fading

1. HP glass combines Low-E with argon gas fill for high performance  
 2. Impact Rated units are available in select sizes and configurations.



Hollow and foam filled bulb weatherstripping over the full height of the door for reduced air infiltration



Durable stainless steel track on interior of the sill for smooth sliding operation



Stainless steel rollers for smooth operation and long-lasting performance



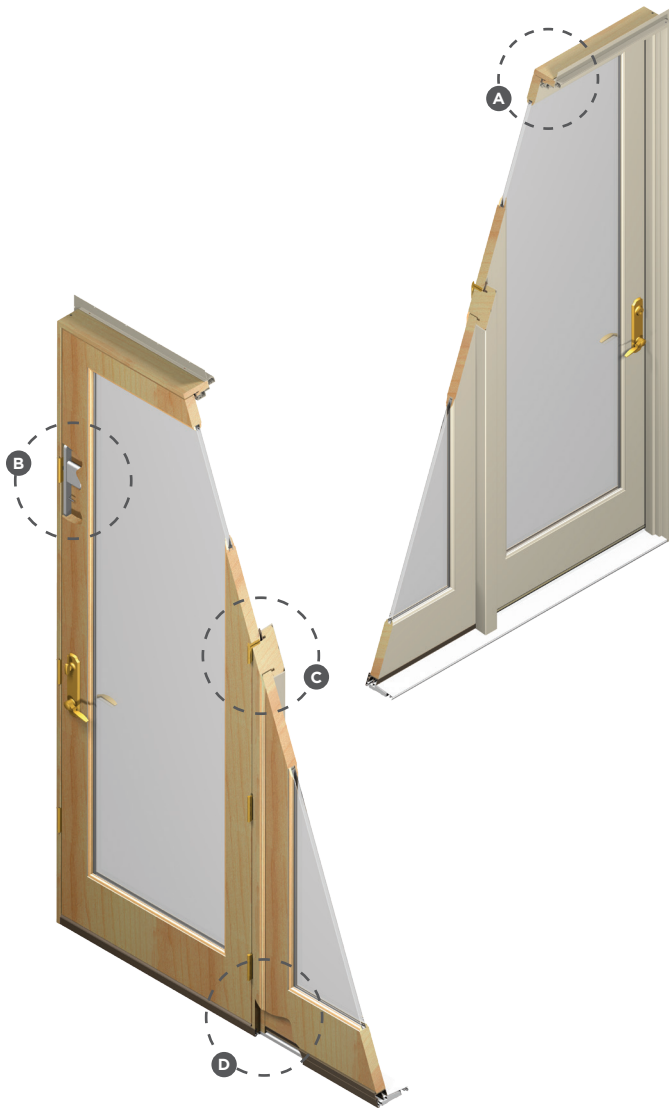
Hollow and foam filled bulb weatherstripping for increased protection against leaks



## HINGED PATIO DOOR

MIRA Aluminum-Clad Wood Hinged Patio Doors are available in half-lite and three-quarter-lite panels. Single panel, two-panel, three-panel and four-panel configurations can be made to fill your unique design needs. With Warm Edge insulating Low-E glass and argon gas fill plus full-perimeter weatherstripping, our attention to energy-efficiency is unmatched, while details like 1½" center mulls mean these doors are as sturdy as they are beautiful.





## STANDARD FEATURES

- Adjustable hinges standard for smooth operation. Flat hinges optional.
- Center mull is integrated into the sill design for higher structural performance
- Full-perimeter weatherstripping for air-tight performance and smooth operation
- Multi-point lock system
- 3/4" panels with wide stiles and rails for a true French look
- 4 9/16" jambs made of clear wood eliminate extensive drywall work
- Select clear wood ready for paint or stain to match any interior décor
- Integral face groove allows for easy mulling and exterior accessory application
- Pre-punched nailing fin for simple installation
- AAMA 2604 paint finish provides superior resistance to chalking and fading
- Energy-efficient Warm Edge insulating tempered HP glass helps reduce energy costs and fabric fading – optional HP<sup>SC</sup>, HP2+, HP2+<sup>SC</sup>, HP2<sup>MAX</sup>, HP2<sup>MAX</sup><sup>SC</sup>, HP3<sup>MAX</sup> Or HP3<sup>MAX</sup><sup>SC</sup>
- Vacuum-treated, solid wood components resist damage from water and fungus
- Durable .050 extruded aluminum cladding on exterior surfaces of frame and .080" on panels resists dings and dents while providing structural integrity. Available with ADA compliant sill

1. HP glass combines Low-E with argon gas fill for high performance.

2. Available option.

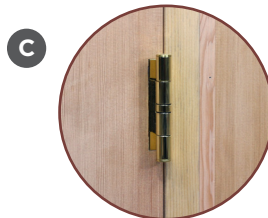
3. Impact Rated units are available in select sizes and configurations.



Integral face groove allows for easy mulling and exterior accessory application



Multi-point lock system; multi-point locking hardware with stainless steel faceplates



Adjustable hinges are standard for smooth operation

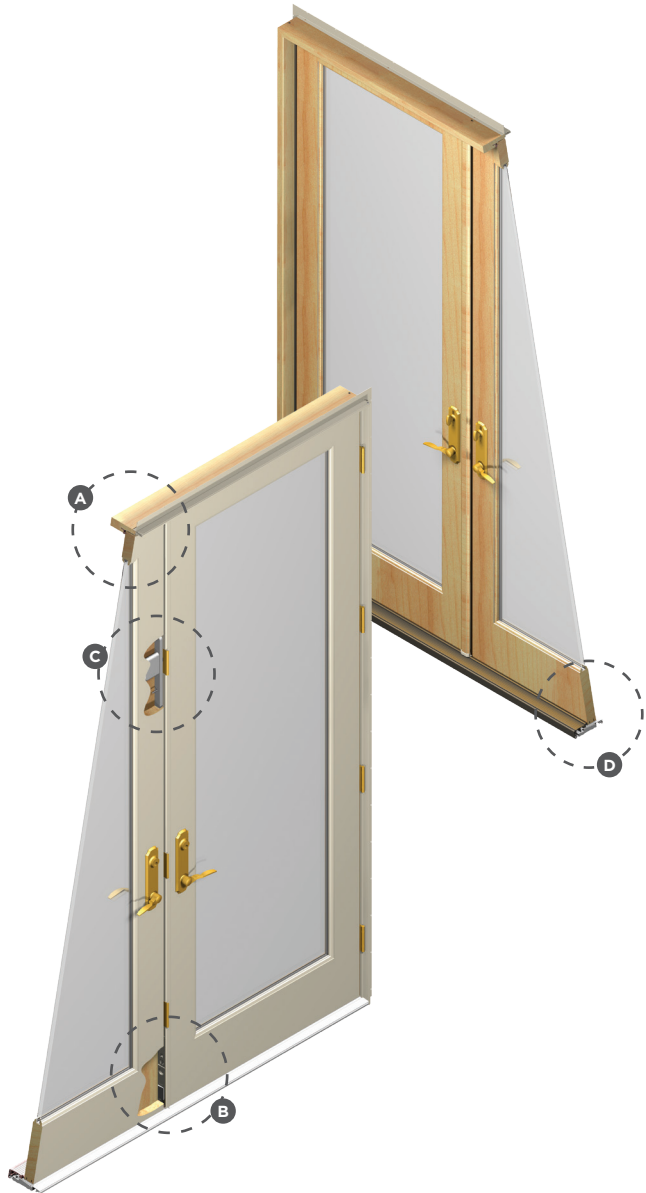


Center mull is integrated into the sill design for higher structural performance



## FRENCH OUTSWING PATIO DOOR

MIRA Aluminum-Clad Wood French Outswing Patio Doors provide classic style coupled with unbeatable performance. This high-quality, aluminum-clad wood patio door features adjustable hinges for smooth operation. Warm edge insulating Low-E glass and argon gas fill, double weatherstrip sealing and a bumper sill provide extra energy-efficiency, while wide stiles and rails give you a true French look.



## STANDARD FEATURES

- Adjustable hinges are standard for smooth operation. Ball Bearing flat hinges optional
- Handle activated shoot bolts at the head and sill for added security
- Aluminum sill deck to prevent sag and resist dents
- Aluminum astragal with stainable wood interior
- Full-perimeter weatherstripping for air-tight performance and smooth operation
- Multi-point lock system
- 1 3/4" panels with wide stiles and rails for a true French look
- 4 9/16" jambs made of clear wood eliminate extensive drywall work
- Select clear wood ready for paint or stain to match any interior décor
- Integral face groove allows for easy mulling and exterior accessory application
- Pre-punched nailing fin for simple installation
- AAMA 2604 paint finish provides superior resistance to chalking and fading
- Energy-efficient Warm Edge insulating tempered HP glass helps reduce energy costs and fabric fading – optional HP<sup>SC</sup>, HP2+, HP2+<sup>SC</sup>, HP2<sup>MAX</sup>, HP2<sup>MAX</sup><sup>SC</sup>, HP3<sup>MAX</sup> or HP3<sup>MAX</sup><sup>SC</sup>
- Vacuum-treated, solid wood components resist damage from water and fungus
- Durable .050 extruded aluminum cladding on exterior surfaces of frame and .080" on panels resists dings and dents while providing structural integrity. Available with ADA compliant sill

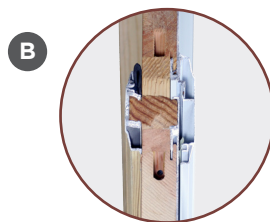
1. HP glass combines Low-E with argon gas fill for high performance.

2. Available option.

3. Impact Rated units are available in select sizes and configurations.



Integral face groove allows for easy mulling and exterior accessory application



Locking flush bolts at the head and sill for increased structural performance and security



Multi-point lock system; multi-point locking hardware with stainless steel faceplates



Bulb weatherstripping and wept sill for increased protection against leaks



## FRENCH INSWING PATIO DOOR

MIRA Aluminum-Clad Wood French Inswing Patio Doors provide classic style and unbeatable performance. These doors feature wide stiles and rails coupled with 1 3/4" door panels to give you a true French look. Adjustable hinges allow for smooth operation, while Warm Edge Low-E insulating glass and argon gas fill, plus full-perimeter weatherstripping keep you comfortable in any season.

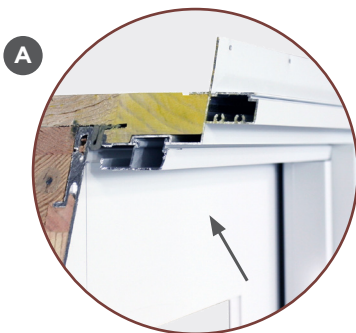


## STANDARD FEATURES

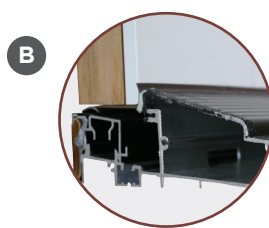
- Adjustable hinges are standard for smooth operation
- Handle activated shoot bolts at the head and sill for added security
- Aluminum sill deck to prevent sag and resist dents
- Aluminum astragal with stainable wood interior
- Full-perimeter weatherstripping for air-tight performance and smooth operation
- Multi-point lock system
- 1 3/4" panels with wide stiles and rails for a true French look
- 4 1/16" jambs made of clear wood eliminate extensive drywall work
- Select clear wood ready for paint or stain to match any interior décor
- Integral face groove allows for easy mulling and exterior accessory application
- Pre-punched nailing fin for simple installation
- AAMA 2604 paint finish provides superior resistance to chalking and fading
- Energy-efficient Warm Edge insulating tempered HP glass helps reduce energy costs and fabric fading – optional HP<sup>SC</sup>, HP2+, HP2+<sup>SC</sup>, HP2<sup>MAX</sup>, HP2<sup>MAX</sup><sup>SC</sup>, HP3<sup>MAX</sup> or HP3<sup>MAX</sup><sup>SC</sup>
- Vacuum-treated, solid wood components resist damage from water and fungus
- Durable .050 extruded aluminum cladding on exterior surfaces of frame and .080" on panels resists dings and dents while providing structural integrity. Available with ADA compliant sill

1. HP glass combines Low-E with argon gas fill for high performance.

2. Available option.



Integral face groove allows for easy mulling and exterior accessory application



Aluminum sill deck to prevent sag and resist dents



Multi-point lock system; multi-point locking hardware with stainless steel faceplates



Locking flush bolts at the head and sill for increased structural performance and security

# NFRC THERMAL PERFORMANCE DATA

DOUBLE HUNG				
	R Value	NFRC CERTIFIED		
		U Factor	SHGC	VT
WITH WARM EDGE				
3/4" HP	2.70	0.37	0.28	0.51
3/4" HP <sup>SC</sup>	3.03	0.33	0.21	0.40
3/4" HP <sup>PS</sup>	2.94	0.34	0.42	0.51
3/4" HP2+	3.33	0.30	0.27	0.49
3/4" HP2+ <sup>SC</sup>	3.33	0.30	0.20	0.39
3/4" HP2+ <sup>PS</sup>	N/A			
WITH WARM EDGE+				
3/4" HP	3.13	0.32	0.28	0.51
3/4" HP <sup>SC</sup>	3.13	0.32	0.21	0.40
3/4" HP <sup>PS</sup>	3.13	0.32	0.42	0.51
3/4" HP2+	3.45	0.29	0.27	0.49
3/4" HP2+ <sup>SC</sup>	3.45	0.29	0.20	0.39
3/4" HP2+ <sup>PS</sup>	N/A			

CASEMENT				
	R Value	NFRC CERTIFIED		
		U Factor	SHGC	VT
WITH WARM EDGE				
7/8" HP	3.13	0.32	0.27	0.48
7/8" HP <sup>SC</sup>	3.13	0.32	0.20	0.38
7/8" HP <sup>PS</sup>	3.13	0.32	0.40	0.49
7/8" HP2+	3.57	0.28	0.26	0.47
7/8" HP2+ <sup>SC</sup>	3.57	0.28	0.19	0.37
WITH WARM EDGE+				
7/8" HP	3.33	0.30	0.27	0.48
7/8" HP <sup>SC</sup>	3.33	0.30	0.20	0.38
7/8" HP <sup>PS</sup>	3.33	0.30	0.40	0.49
7/8" HP2+	3.70	0.27	0.26	0.47
7/8" HP2+ <sup>SC</sup>	3.70	0.27	0.19	0.37

AWNING				
	R Value	NFRC CERTIFIED		
		U Factor	SHGC	VT
WITH WARM EDGE				
7/8" HP	3.13	0.32	0.27	0.48
7/8" HP <sup>SC</sup>	3.13	0.32	0.20	0.38
7/8" HP <sup>PS</sup>	3.13	0.32	0.40	0.49
7/8" HP2+	3.45	0.29	0.26	0.47
7/8" HP2+ <sup>SC</sup>	3.45	0.29	0.20	0.37
WITH WARM EDGE+				
7/8" HP	3.33	0.30	0.27	0.48
7/8" HP <sup>SC</sup>	3.33	0.30	0.20	0.38
7/8" HP <sup>PS</sup>	3.23	0.31	0.40	0.49
7/8" HP2+	3.70	0.27	0.26	0.47
7/8" HP2+ <sup>SC</sup>	3.70	0.27	0.20	0.37

BI-PARTING & FRENCH SLIDING PATIO DOOR				
	R Value	NFRC CERTIFIED		
		U Factor	SHGC	VT
WITH WARM EDGE				
7/8" HP	2.70	0.37	0.22	0.4
7/8" HP <sup>SC</sup>	2.70	0.37	0.17	0.31
7/8" HP2+	2.94	0.34	0.21	0.39
7/8" HP2+ <sup>SC</sup>	2.94	0.34	0.16	0.31
1" HP2 <sub>MAX</sub>	3.23	0.31	0.19	0.31
1" HP2 <sub>MAX</sub> <sup>SC</sup>	3.23	0.31	0.14	0.19
1" HP3 <sub>MAX</sub>	3.33	0.3	0.17	0.3
1" HP3 <sub>MAX</sub> <sup>SC</sup>	3.33	0.3	0.12	0.19
WITH WARM EDGE+				
7/8" HP	2.94	0.34	0.22	0.4
7/8" HP <sup>SC</sup>	2.94	0.34	0.17	0.31
7/8" HP2+	3.13	0.32	0.21	0.39
7/8" HP2+ <sup>SC</sup>	3.03	0.33	0.16	0.31
1" HP2 <sub>MAX</sub>	3.33	0.3	0.19	0.31
1" HP2 <sub>MAX</sub> <sup>SC</sup>	3.33	0.3	0.14	0.19
1" HP3 <sub>MAX</sub>	3.45	0.29	0.17	0.3
1" HP3 <sub>MAX</sub> <sup>SC</sup>	3.45	0.29	0.12	0.19

HINGED PATIO DOOR				
	R Value	NFRC CERTIFIED		
		U Factor	SHGC	VT
WITH WARM EDGE				
7/8" HP	2.86	0.35	0.17	0.32
7/8" HP <sup>SC</sup>	2.94	0.34	0.13	0.25
7/8" HP2+	3.13	0.32	0.17	0.31
7/8" HP2+ <sup>SC</sup>	3.13	0.32	0.13	0.24
1" HP2 <sub>MAX</sub>	3.33	0.3	0.15	0.24
1" HP2 <sub>MAX</sub> <sup>SC</sup>	3.33	0.3	0.11	0.15
1" HP3 <sub>MAX</sub>	3.45	0.29	0.14	0.24
1" HP3 <sub>MAX</sub> <sup>SC</sup>	3.45	0.29	0.1	0.15
WITH WARM EDGE+				
7/8" HP	3.03	0.33	0.17	0.32
7/8" HP <sup>SC</sup>	3.03	0.33	0.13	0.25
7/8" HP2+	3.23	0.31	0.17	0.31
7/8" HP2+ <sup>SC</sup>	3.23	0.31	0.13	0.24
1" HP2 <sub>MAX</sub>	3.45	0.29	0.15	0.24
1" HP2 <sub>MAX</sub> <sup>SC</sup>	3.45	0.29	0.11	0.15
1" HP3 <sub>MAX</sub>	3.57	0.28	0.14	0.24
1" HP3 <sub>MAX</sub> <sup>SC</sup>	3.57	0.28	0.1	0.15

**NOTE:**

All units rated in accordance with NFRC 100/200 standards by a NAMI Accredited lab. Performance values reflect the performance of units tested with the following configuration: 3mm glass, no grilles and Warm Edge spacer system and Warm Edge+ spacer system.

Optional Low-E glass packages are combined with capillary tubes to address performance needs in high altitude applications.

# NFRC THERMAL PERFORMANCE DATA

FRENCH INSWING PATIO DOOR				
	R Value	NFRC CERTIFIED		
		U Factor	SHGC	VT
WITH WARM EDGE				
7/8" HP	2.86	0.35	0.17	0.32
7/8" HP <sup>SC</sup>	2.94	0.34	0.13	0.25
7/8" HP2+	3.13	0.32	0.17	0.31
7/8" HP2+ <sup>SC</sup>	3.13	0.32	0.13	0.24
1" HP2 <sub>MAX</sub>	3.33	0.3	0.15	0.24
1" HP2 <sub>MAX</sub> <sup>SC</sup>	3.33	0.3	0.11	0.15
1" HP3 <sub>MAX</sub>	3.45	0.29	0.14	0.24
1" HP3 <sub>MAX</sub> <sup>SC</sup>	3.45	0.29	0.1	0.15
WITH WARM EDGE+				
7/8" HP	3.03	0.33	0.17	0.32
7/8" HP <sup>SC</sup>	3.03	0.33	0.13	0.25
7/8" HP2+	3.23	0.31	0.17	0.31
7/8" HP2+ <sup>SC</sup>	3.13	0.32	0.13	0.24
1" HP2 <sub>MAX</sub>	3.45	0.29	0.15	0.24
1" HP2 <sub>MAX</sub> <sup>SC</sup>	3.45	0.29	0.11	0.15
1" HP3 <sub>MAX</sub>	3.57	0.28	0.14	0.24
1" HP3 <sub>MAX</sub> <sup>SC</sup>	3.57	0.28	0.1	0.15

FRENCH OUTSWING PATIO DOOR				
	R Value	NFRC CERTIFIED		
		U Factor	SHGC	VT
WITH WARM EDGE				
7/8" HP	3.03	0.33	0.17	0.32
7/8" HP <sup>SC</sup>	3.03	0.33	0.13	0.25
7/8" HP2+	3.23	0.31	0.17	0.31
7/8" HP2+ <sup>SC</sup>	3.23	0.31	0.13	0.24
1" HP2 <sub>MAX</sub>	3.57	0.28	0.15	0.24
1" HP2 <sub>MAX</sub> <sup>SC</sup>	3.57	0.28	0.11	0.15
1" HP3 <sub>MAX</sub>	3.70	0.27	0.13	0.24
1" HP3 <sub>MAX</sub> <sup>SC</sup>	3.70	0.27	0.1	0.15
WITH WARM EDGE+				
7/8" HP	3.13	0.32	0.17	0.32
7/8" HP <sup>SC</sup>	3.13	0.32	0.13	0.25
7/8" HP2+	3.33	0.3	0.17	0.31
7/8" HP2+ <sup>SC</sup>	3.33	0.3	0.13	0.24
1" HP2 <sub>MAX</sub>	3.70	0.27	0.15	0.24
1" HP2 <sub>MAX</sub> <sup>SC</sup>	3.70	0.27	0.11	0.15
1" HP3 <sub>MAX</sub>	3.85	0.26	0.13	0.24
1" HP3 <sub>MAX</sub> <sup>SC</sup>	3.85	0.26	0.1	0.15



## LOW-E GLASS PACKAGES

Our Low-E glass packages combine Low-E and WarmEdge 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-ESC (solar cooling) glass packages are 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 — Dual-pane with one lite of Low-E

Low-E<sup>SC</sup> — Dual-pane with one lite of solar cooling Low-E

Low-E2+ — Dual-pane with one lite of Low-E and one lite of Interior Surface Low-E

Low-E2+<sup>SC</sup> — Dual-pane with one lite of solar cooling Low-E and one lite of Interior Surface Low-E

Low-E<sup>PS</sup> — Dual-Pane with one lite of Passive Solar Low-E

Low-E2+<sup>PS</sup> — Dual-Pane with one lite of Passive

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



## HP GLASS PACKAGES

Our HP glass packages combine Low-E with argon gas fill and WarmEdge 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 packages are 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<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

HP2+<sup>SC</sup> — One lite of solar cooling optimized Low-E and one lite of Interior Surface Low-E with argon gas fill

HP<sup>PS</sup> — One lite of passive solar Low-E glass (Surface 3) with argon gas fill

HP2+<sup>PS</sup> — One lite of passive solar Low-E and one lite of Interior Surface Low-E with argon gas fill

HP2<sub>MAX</sub> — Triple-pane glass package with two lites of Low-E and an interior glass substrate with two chambers of argon gas fill

HP3<sub>MAX</sub> — Triple-pane glass package with two lites of Low-E and one lite of Interior Surface Low-E with two chambers of argon gas fill

# LOW-E & ENERGY STAR

## 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.

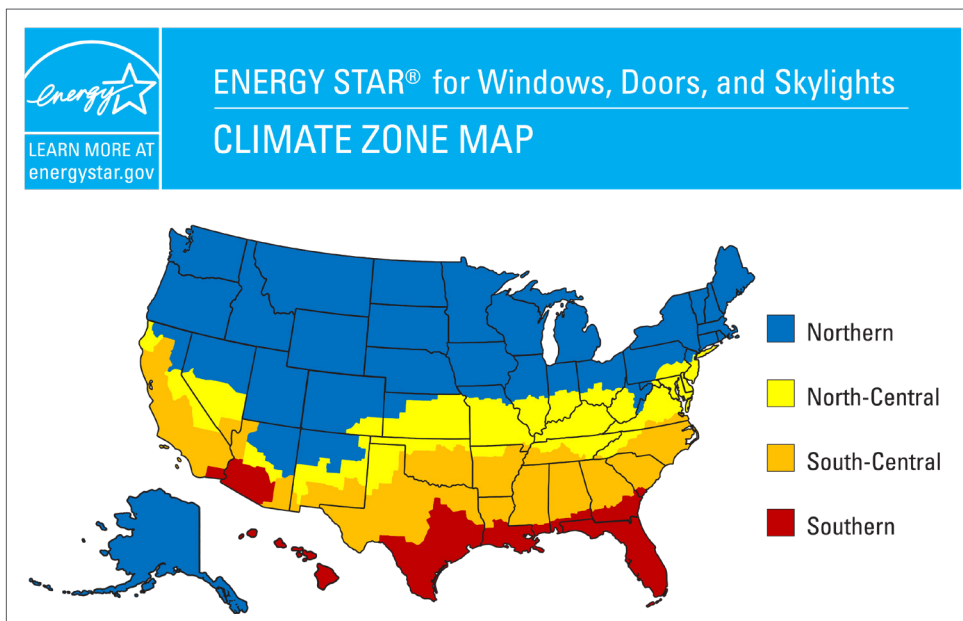
Our *Interior Surface Low-E* is engineered to have the characteristic window manufacturers and homeowners need most — lower U-Factor— and is applied to the surface of the glass you can touch inside your home, providing increased comfort and improved energy savings. One major benefit is a decrease in 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® VERSION 7.0



Ply Gem MIRA Aluminum-Clad Wood 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.

ENERGY STAR Version 7.0 – Effective Date 10/23/2023





# GLASS OPTIONS, SCREENS & IMPACT RATED INFO



## GLASS OPTIONS

- Low-E
- Low-E<sup>SC</sup>
- Low-E2+
- Low-E2+<sup>SC</sup>
- HP
- HP<sup>SC</sup>
- HP2+
- HP2+<sup>SC</sup>
- HP<sup>PS</sup>
- HP2+<sup>PS</sup>
- HP2<sup>MAX</sup>
- HP2<sup>MAX</sup><sup>SC</sup>
- HP3<sup>MAX</sup>
- HP3<sup>MAX</sup><sup>SC</sup>
- Tinted
- Obscure
- Black Spandrel
- Tempered\*

\* Tempered glass is standard on sliding patio doors.

NOTE: Low-E glass packages available to address high altitude applications. Not all glass options are available on all products. See page 25 for explanation of glass packages. Contact your Ply Gem Windows & Doors sales representative for a full list of MIRA Aluminum-Clad Wood glass thickness options and performance values.

## SCREENS

Color-matched full-length aluminum frames with Optimal Viewing screens improve your view without sacrificing strength and durability. Sliding patio door screens are equipped with stainless steel rollers for smooth operation. FlexScreens, which come standard for casements and awnings, hide in the window screen pocket which improve sight lines and eliminate the need for color matching the metal frame.



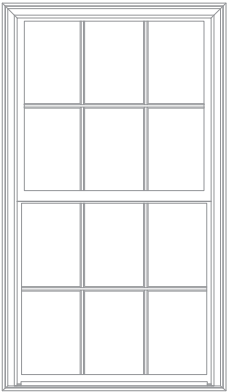
## IMPACT RATED

- Rated in accordance with International Residential Codes and meets impact requirements in U.S. Zone 2 (110-120 mph) and Zone 3 (120-140 mph)
- Passes ASTM E1886/1996 Large Missile Impact and Cycling Tests
- Meets AAMA/WDMA/CSA 101/I.S.2/A440 standards. Florida Building Commission approved
- Meets wind-borne debris specifications for large missile D (8' missile for Impact Zone 3 at 50 ft/sec) and small missile C (4' missile for Impact Zone 2 at 40 ft/sec)
- Double hung units are constructed to meet LC50 rating
- Casement units feature corrosion-resistant coastal hardware and are constructed to meet LC60 rating
- French outswing patio doors feature corrosion-resistant coastal hardware in bright brass, satin nickel, or oil-rubbed bronze finishes and are constructed to meet LC50 rating

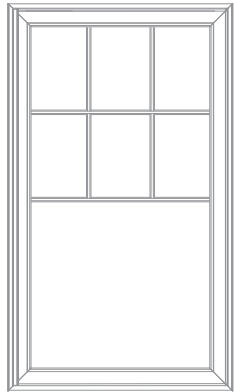


# GRILLE PATTERN & STYLES

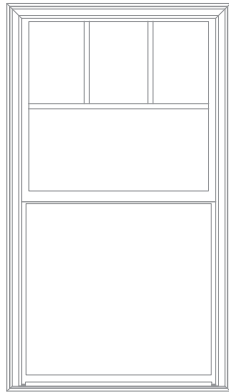
## STANDARD GRILLE PATTERNS



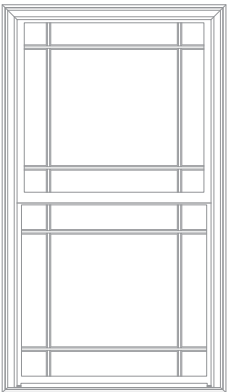
Colonial



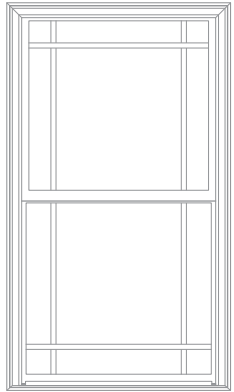
Half Colonial  
(shown on Casement)



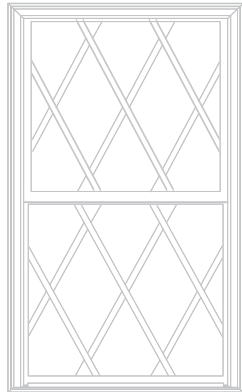
Plaza



Prairie



Perimeter Prairie



Diamond

## GRILLE STYLES



5/8" Flat GBG



7/8" Flat GBG



5/8" Sculptured  
GBG



1" Contoured  
GBG



7/8" SDL



1/4" SDL



7/8" Full Surround  
Removable

GBG = Grilles-Between-the-Glass  
SDL = Simulated-Divided-Light

Putty Glazed  
SDL Bar



Visit [plygem.com/MIRA](http://plygem.com/MIRA) for optional grille patterns.



THE **Standard**Collection

Our standard colors are as durable as they are beautiful. Choose from three eye-catching hues.



THE **Signature**Collection

From subtle shades to vibrant hues, Signature colors offer a full spectrum of fresh choices. Choose from 32 colors.



THE **Radiance**Collection

Our pearlized color process produces rich color with a metallic sheen. Colors become more vivid in bright light. Choose from 11 colors.



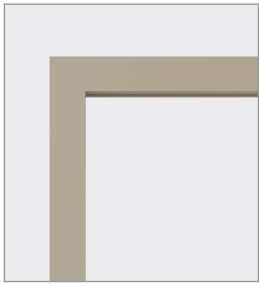
GET **Custom**Options

There's no limit to your color palette with Ply Gem. If you've got a particular color in mind that we don't offer, bring in a sample and we'll match it.

NOTE: Colors shown are close approximations and may not be accurate representations for color matching. Please request color swatches from your Ply Gem sales representative to do so. Additional Signature and Radiance color options available ranging from dark bold hues to vibrant metallics.

# EXTERIOR CASING, INTERIOR COLORS & SHAPES

## EXTERIOR CASING OPTIONS



J-Channel\*



180 Brick Mould



3/4" Williamsburg\*



3 1/2" Flat\*



Sill Nose  
across bottom only

\*Available on non-curved shaped windows and doors only.

## INTERIOR COLORS



Natural Clear  
Wood



Primed



Pre-finished  
White



Pre-finished  
Off-White



Pre-finished  
Black

## EXTENSION JAMBS

Available in widths between 4 3/16" to 8 9/16" for windows and 4 3/16" or 6 3/16" for doors.

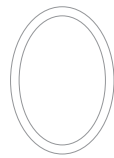
## ARCHITECTURAL SHAPES



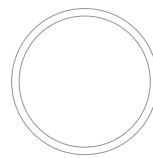
Right Triangle



Octagon



Oval



Full Round



Pentagon



Triangle



Clip Trapezoid



Elliptical



Eyebrow



Rectangle



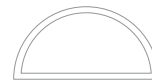
Trapezoid Transom



Segmented Arch Transom



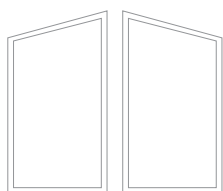
Arch Transom



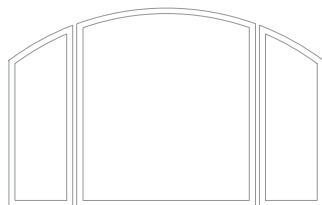
Circle Head



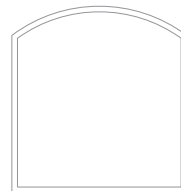
Quarter  
Circle



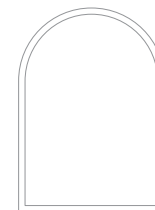
Trapezoid Picture



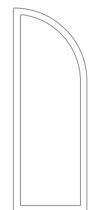
Segmented Arch Picture



Arch



True Radius



Ext. Quarter  
Circle

Consult a Ply Gem sales representative about the details and your specific requirements.

# WINDOW & DOOR HARDWARE



## WINDOW HARDWARE OPTIONS



White



Beige



Taupe



Bright Brass



Antique Brass



Satin Nickel



Oil Rubbed  
Bronze



Black

## DOOR HARDWARE OPTIONS\*

### HINGED PATIO DOORS



Traditional  
Bright Brass



Traditional  
Antique Brass



Traditional  
Satin Nickel



Traditional  
Oil Rubbed Bronze



Contemporary  
White



Contemporary  
Brushed Chrome



Contemporary  
Satin Nickel



Contemporary  
Black

### SLIDING PATIO DOORS



Bright Brass



Antique Brass



Satin Nickel



Oil Rubbed Bronze

\* French outswing impact patio door handles feature PVD (coastal) finishes and are only available in traditional style, and in bright brass, satin nickel and oil-rubbed bronze.

It's more than a window or door.  
**It's a whole new point of view.**





[plygem.com/windows-doors](https://plygem.com/windows-doors)



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PART OF THE CORNERSTONE BUILDING BRANDS FAMILY | SIDING + ACCESSORIES | WINDOWS + DOORS | STONE VENEER | TRIM + MOULDINGS | FENCE + RAILING





A NEW POINT OF VIEW

**WEST VINYL**  
NEW CONSTRUCTION/REPLACEMENT

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# #1 WINDOW MANUFACTURER

## IN NORTH AMERICA



Backed by industry-leading warranties, all products are designed and tested for strength, durability, energy efficiency and overall performance



Innovative energy-efficient glass package options for the energy performance, comfort and weather resistance needs and requirements of the western United States



A wide selection of window and door styles and configurations for any home and budget



Vertically integrated operations and supply chain ensure quality and efficiency. We manufacture our own vinyl profiles to control the quality and supply of our vinyl materials



Interior and exterior options to complement interior design trends and any architectural style





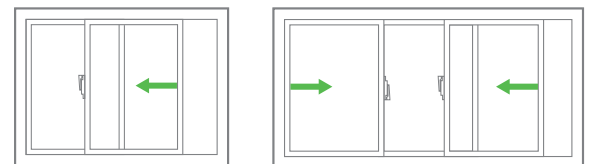
## Sliding Window

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

- Standard heavy-duty adjustable acetal rollers for smooth operation while adding strength for triple pane windows
- Secondary sash stop allows window to open partially for secure ventilation
- Standard baffled weep hole covers resist weather and bugs
- Anti-lift blocks mechanically fastened to prevent unwanted sash removal
- Reinforced meeting rail for added strength and security

Choose from a 2-lite slider, or a 3-lite slider window that features a large picture window with operable end vents.







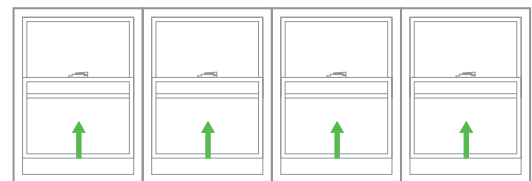
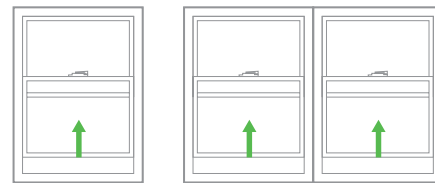
## Single Hung

Bring your rooms to life with our attractive single hung windows, which blend the charm of yesterday with the high-tech innovation performance of today. They will brighten your spaces with timeless beauty and deliver the durability and the latest in energy-efficient features you'll appreciate every day.

### FEATURES

- Block and tackle sash balances for easy and smooth operation
- Lock options meet or exceed strict forced entry code requirements
- Low point high-pressure baffled weep system for efficient water drainage
- Corrosion resistant fasteners and hardware for lifelong durability

Available in twin, triple and quad window combinations.







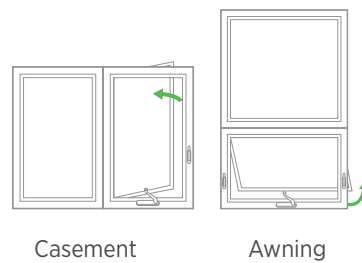


## Casement & Awning

Bring fresh air to out-of-the-way spaces with our casement and awning windows. Sash opens fully for maximum fresh air through an interior screen. Customize your window configuration with picture windows to create a unique look.

### FEATURES

- Folding nested handle hardware for sleek appearance and minimizing interference with window treatments
- Stainless steel hardware and fasteners standard for added strength and longevity
- Double-row bulb compression weatherstripping for tight seal and increased efficiency
- Integral structural mulls provide durability and reinforcement to casement and awning combination units



Color-matched hardware coordinates with and complements interior home décor.



Sleek fold-down and nesting hardware



Multi-point sash lock



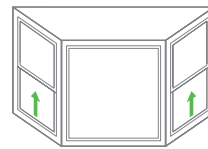
Bay Window



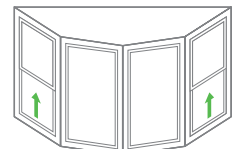
Bow Window

## Bay & Bow Windows

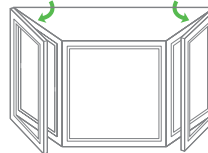
Bay windows feature a picture window center flanked by two single hung windows or casement windows. Bow windows combine 3, 4 or 5 window configurations at 10° or 15° angles for a more rounded look. Select single hung, casement, picture windows or combine styles to create your bow window. Optional head and seatboard in birch can be stained or painted to match your interior décor.



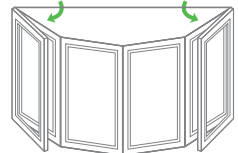
Single Hung Bay



Single Hung Bow



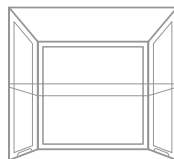
Casement Bay



Casement Bow

## Garden Windows

You don't need 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.



Garden Window



### EXTERNAL KNEE BRACES

- Provides exterior support for bay, bow and garden windows\*
- Available in white, sand and clay
- Knee braces are pre-finished to be maintenance free

\*Additional knee braces and cable system are required for bay, bow and garden window installation when head and seatboard with extension jamb options is selected. Failure to properly support a bay, bow or garden window will void the warranty.



Full Round Window



Extended Eyebrow



## Picture Windows & Architectural Shapes

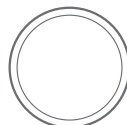
Architectural windows (also known as geometric windows) come in a variety of arched, radius and linear shapes that add visual character to any home's architecture. Ideal for small areas or combine with other windows for a large configuration, geometric windows increase illumination and curb appeal. Select shape windows are also available in operable styles.



Picture Window



Picture Window



Full Round



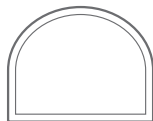
Quarter Round



Extended Quarter Round



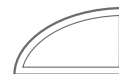
Eyebrow



Extended Half Round



Extended Eyebrow



Quarter Eyebrow



Extended Quarter Eyebrow



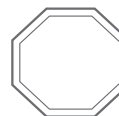
Half Round



Gothic Eyebrow



Extended Gothic



Octagon



Extended Octagon



Ellipse



Pentagon



Pentagon Equilateral



Hexagon



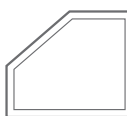
Extended Hexagon



Full Oval



Trapezoid Left or Right



Clipped Trapezoid



Isosceles Triangle



Right Angle Triangle



# Sliding/French Sliding Patio Door

Our reliable, sliding patio door opens up a home to outdoor living and more daylight. Available in multiple styles including French and Bi-Parting, these maintenance free and weather resistant doors are as attractive as they are efficient.

## FEATURES

- Laminated black and bronze exterior options available on 960 Series
- Multi-point lock for security
- Optional deadbolt and head bolt for additional security
- Stainless-steel rollers available for long lasting durability and smooth operation
- Aluminum threshold cover on 960 Series for strength and durability for years to come



Sliding Patio Door

French Sliding Patio Door



Standard color-coordinated exterior handle



Standard color-coordinated interior handle

## HARDWARE FINISHES

Standard color-coordinated interior/exterior hardware perfectly complement Sliding and French Sliding Patio Doors. Optional interior hardware in stylish metal finishes adds a unique touch to your décor.



WHITE SAND CLAY SATIN NICKEL OIL-RUBBED BRONZE BLACK

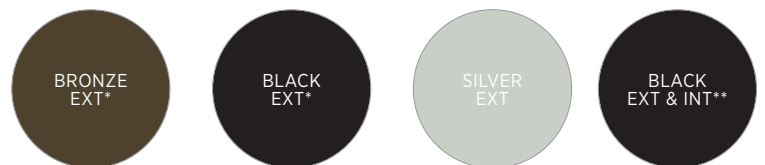


## Exterior/Interior Color Options

### VINYL COLOR OPTIONS



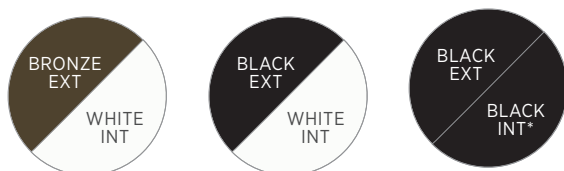
### PAINTED & LAMINATED EXTERIOR COLOR OPTIONS



All painted exterior colors available with a white, sand or clay interior color  
 \*Laminated black and bronze exterior available on 960 Series sliding patio door only.  
 \*\*Laminated black exterior and interior available on 960 Series sliding patio door only.

### CO-EXTRUDED EXTERIOR COLOR OPTIONS

AVAILABLE FOR WINDOWS ONLY



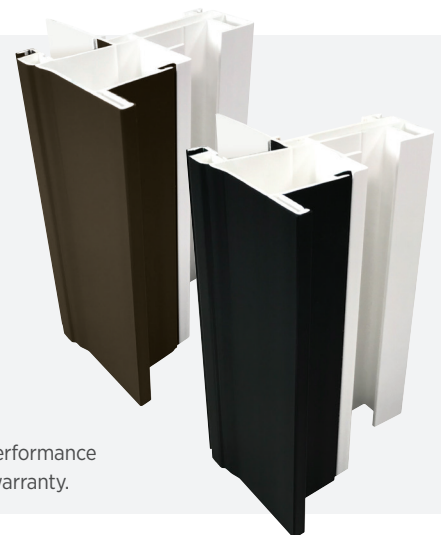
\*Laminated black interior with co-extruded black exterior on 200 and 700 series windows.

Geographically limited availability. Consult with your Ply Gem Windows & Doors representative.

Colors are reproduced as accurately as printer technology allows. Consult with your Ply Gem representative for actual samples.

### CO-EXTRUSION TECHNOLOGY

Co-extruded dark exterior colors for our vinyl windows have been formulated to meet the design and performance needs of the western United States. The co-extrusion process molds the vinyl dark color and white color material together as the profile is created. This means the color is integral to the window and not an applied coating on the exterior surface. This durable, high performance color option is backed by a 10-year warranty.



# Grille Options

## GRILLE PROFILES

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

\* SDL not available for garden windows



5/8" Flat GBG



5/8" Sculptured GBG



1" Sculptured GBG

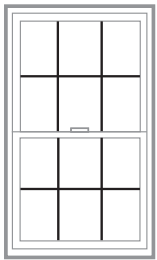


7/8" SDL\*

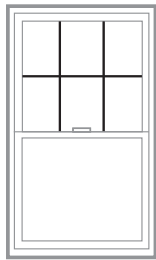


1 1/4" SDL\*

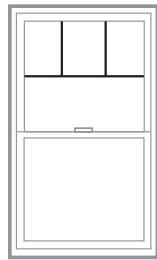
## SELECTION OF POPULAR GRILLE PATTERNS



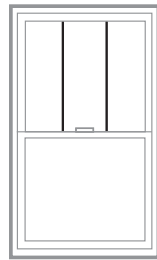
Colonial



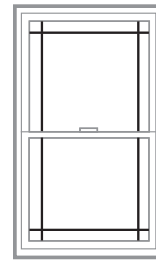
Half Colonial



Plaza



Three over One



Perimeter Prairie

## ADDITIONAL GRILLE PATTERNS AVAILABLE

Consult with your Ply Gem Windows & Doors sales representative or visit [plygem.com/window-doors](http://plygem.com/window-doors) for more details.

# Window Lock Options

Color-matched single hung and sliding window hardware will coordinate with and complement your home décor. Cam action sash lock is standard or upgrade to AUTOLOCK which locks automatically when sash is closed.

## CAM ACTION SASH LOCK



White



Sand



Clay



Black



Standard dual cam-action sash lock provides security

## AUTOLOCK SASH LOCK



White



Sand



Clay



Black



Optional AUTOLOCK locks automatically when unit is closed

# Custom Sizing

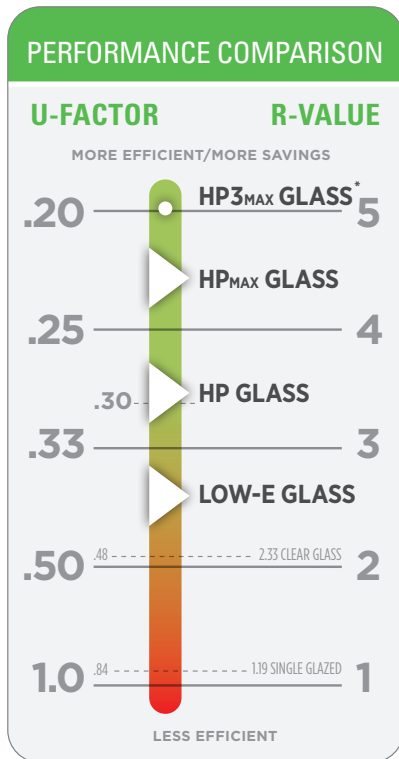
Ply Gem windows and patio doors can be ordered in 1/8 inch increments for any application providing a perfect fit every time. Custom sizing minimizes installation time and special trimming requirements.

## 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
- Tempered<sup>2</sup>
- Laminated (security)
- Sound Package (off-set glass)

\* 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. Consult with your Ply Gem Windows & Doors representative for a full list of glass thickness options and ratings.

1. Consult with your Ply Gem Windows & Doors representative for a complete list of tinted glass types.
2. Tempered glass standard on patio doors.



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 & Doors glass package options, not including energy package upgrade.

\*Ply Gem Windows & Doors HP3<sup>MAX</sup> glass products meet or exceed a U-Factor of 0.20 on fixed units & 0.22 on operating units.

## Glass Packages

### 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>** = Triple-pane with two lites of Low-E with an interior glass substrate

**Low-E3<sup>MAX</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<sup>+</sup>** = 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.

### TITLE 24

Most Ply Gem windows and doors in the west can be configured to meet or exceed the California Energy Commission's standards for Title 24 compliance. Consult with your Ply Gem Windows & Doors representative for more information.





## Obscure Glass Pattern Options



Clear Crossreed



Delta Frost



Flemish



Gluechip



Narrow Reed



Obscure



Rain



Satin Etched

## Glossary

### PERFORMANCE GRADE RATED

Ply Gem windows and patio doors 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 and doors available nationwide.

### WARM EDGE TECHNOLOGY

Standard Warm Edge glass spacer system within Ply Gem windows and patio doors 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 product.

### WARM EDGE+ TECHNOLOGY

Optional Warm Edge+ 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.

### LIMITED LIFETIME WARRANTY



We believe so strongly in the durability of our windows and sliding patio doors that we back each unit with our Limited Lifetime Warranty and a 15-year glass warranty. Lifetime means your windows and sliding patio doors are protected under the warranty for as long as you live in your home. Hinged patio doors have a Limited 10-Year Warranty.

### ENERGY STAR®



Ply Gem West Vinyl 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.

WINDOW: PRODUCT TYPE /SERIES	SLIDING		SINGLE HUNG		CASEMENT	AWNING	SINGLE HUNG BAY	CASEMENT BAY	SINGLE HUNG BOW	CASEMENT BOW	GARDEN	SHAPES
<b>FRAME TYPE</b>	200	400	200	400	700	700	200	700	200	700	400	SHAPES
Frame Depth	3-7/16"	2-5/8"	3-7/16"	2-5/8"	3-7/16"	3-7/16"	3-7/16"	3-7/16"	3-7/16"	3-7/16"	2-5/8"	varies
1" Nailing Fin	■		■		■	■	■	■	■	■		■
1" Nailing Fin with J-Channel	■	■	■	■								■
1" Nailing Fin with Stucco Key	■	■	■	■								■
1-3/8" Nailing Fin	■	■	■	■	■	■	■	■	■	■		■
1-3/8" Nailing Fin with Stucco Key	■	■	■	■								■
Single-wall Flush Flange	■	■	■	■	■	■						■
Dual-wall Flush Flange	■		■		■	■						■
Block Frame	■	■	■	■	■	■	■	■	■	■		■
Flush Fin											■	
<b>FRAME DIMENSIONS</b>	200	400	200	400	700	700	200	700	200	700	400	SHAPES
Maximum Width	96"	72"	48"	48"	36"	60**	96"	120"	72"	84"	72"	varies
Maximum Height	72"	60"	84"	72"	72"	36"	72"	72"	84"	84"	48"	varies
<b>COLOR EXTERIOR / INTERIOR</b>	200	400	200	400	700	700	200	700	200	700	400	SHAPES
White/White	■	■	■	■	■	■	■	■	■	■	■	■
Sand/Sand	■	■	■	■	■	■	■	■	■	■	■	■
Clay/Clay	■	■	■	■	■	■	■	■	■	■	■	■
Co-extruded Bronze/White	■		■		■	■						■
Co-extruded Black/White	■		■		■	■						■
Co-extruded Black/Laminated Black	■		■		■	■						■
Painted Silver/White	■	■	■	■	■	■	■	■	■	■		■
Painted Bronze/White	■	■	■	■	■	■	■	■	■	■		■
Painted Black/White	■	■	■	■	■	■	■	■	■	■		■
<b>GLASS</b>	200	400	200	400	700	700	200	700	200	700	400	SHAPES
Low-E											■	
Low-E <sup>SC</sup>											■	
Low-E <sup>PS</sup>	■	■	■	■	■	■	■	■	■	■		■
Low-E2+ <sup>PS</sup>	■	■	■	■	■	■	■	■	■	■		■
Low-E High Altitude	■	■	■	■	■	■	■	■	■	■	■	■
Low-E <sup>SC</sup> High Altitude	■	■	■	■	■	■	■	■	■	■	■	■
HP	■	■	■	■	■	■	■	■	■	■	■	■
HP <sup>SC</sup>	■	■	■	■	■	■	■	■	■	■	■	■
HP <sup>PS</sup>	■	■	■	■	■	■	■	■	■	■	■	■
HP2+	■	■	■	■	■	■	■	■	■	■	■	■
HP2+ <sup>PS</sup>		■	■	■	■	■	■	■	■	■	■	■
HP2 <sub>Max</sub>	■		■		■	■	■	■	■	■	■	■
HP3 <sub>Max</sub>	■		■		■	■	■	■	■	■	■	■
Title 24 Compliance Option	■	■	■	■	■	■	■	■	■	■	■	■
<b>PATTERN GLASS</b>	200	400	200	400	700	700	200	700	200	700	400	SHAPES
Clear Crossreed	■	■	■	■	■	■	■	■	■	■	■	■
Delta Frost	■	■	■	■	■	■	■	■	■	■	■	■
Flemish	■	■	■	■	■	■	■	■	■	■	■	■
Gluechip	■	■	■	■	■	■	■	■	■	■	■	■
Narrow Reed	■	■	■	■	■	■	■	■	■	■	■	■
Obscure	■	■	■	■	■	■	■	■	■	■	■	■
Rain	■	■	■	■	■	■	■	■	■	■	■	■
Satin Etched	■	■	■	■	■	■	■	■	■	■	■	■
<b>GRILLE TYPES</b>	200	400	200	400	700	700	200	700	200	700	400	SHAPES
Grilles Between Glass (GBG)												
5/8" Flat GBG	■	■	■	■	■	■	■	■	■	■		■
5/8" Sculptured GBG	■		■		■	■	■	■	■	■		■
1" Sculptured GBG	■	■	■	■	■	■	■	■	■	■		■
Simulated Divided Lite (SDL)												
7/8" SDL with Shadow Bar	■		■		■	■	■	■	■	■		
1-1/4" SDL with Shadow Bar	■		■		■	■	■	■	■	■		
2" SDL with Shadow Bar	■		■		■	■	■	■	■	■		
2" Horizontal & 1-1/4" Vertical SDL w/ Shadow Bar	■		■		■	■	■	■	■	■		
<b>GRILLE PATTERNS</b>	200	400	200	400	700	700	200	700	200	700	400	SHAPES
Colonial	■	■	■	■	■	■	■	■	■	■		■
Prairie	■	■	■	■	■	■	■	■	■	■		■
Double Prairie	■	■	■	■	■	■	■	■	■	■		■
Marginal Prairie	■	■	■	■	■	■	■	■	■	■		■
Perimeter Prairie	■	■	■	■	■	■	■	■	■	■		■
Plaza	■	■	■	■	■	■	■	■	■	■		■
Fractional	■	■	■	■	■	■	■	■	■	■		■
<b>HARDWARE</b>	200	400	200	400	700	700	200	700	200	700	400	SHAPES
Cam Action Sash Lock	■	■	■	■			■	■	■	■	■	■
AUTOLOCK	■	■	■	■			■	■	■	■	■	■
	SLIDING		SINGLE HUNG		CASEMENT	AWNING	SINGLE HUNG BAY	CASEMENT BAY	SINGLE HUNG BOW	CASEMENT BOW	GARDEN	SHAPES

\* 12 sq ft max

<b>PATIO DOOR: PRODUCT TYPE /SERIES</b>	<b>SLIDING</b>		<b>FRENCH SLIDING</b>
<b>FRAME TYPES</b>	<b>460</b>	<b>960</b>	<b>970</b>
Frame Depth:	4-1/4"	4-3/8"	4-3/8"
1-3/16" Nailing Fin	■		
1-3/16" Nailing Fin with J-Channel	■		
1-3/8" Nailing Fin		■	■
1-3/8" Nailing Fin with J-Channel		■	■
Dual-wall Flush Flange		■	■
No Fin	■	■	■
<b>FRAME DIMENSIONS</b>	<b>460</b>	<b>960</b>	<b>970</b>
Maximum Width	6' 0"	16' 0"	16' 0"
Maximum Height	6' 10"	8' 0"	8' 0"
<b>PANELS</b>	<b>460</b>	<b>960</b>	<b>970</b>
2-panel	■	■	■
3-panel		■	■
4-panel		■	■
<b>COLOR EXTERIOR /INTERIOR</b>	<b>460</b>	<b>960</b>	<b>970</b>
White/White	■	■	■
Sand/Sand	■	■	■
Clay/Clay	■	■	■
Painted Silver/White	■	■	■
Painted Bronze/White	■	■	■
Painted Black/White	■	■	■
Laminated Black/White or Bronze/White		■	
Laminated Black/Black		■	
<b>GLASS</b>	<b>460</b>	<b>960</b>	<b>970</b>
Low-E High Altitude	■	■	■
Low-E <sup>sc</sup> High Altitude	■	■	■
HP	■	■	■
HP <sup>sc</sup>	■	■	■
HP2+		■	
HP2 <sup>Max</sup>		■	
HP3 <sup>Max</sup>		■	
Title 24 Compliance Option	■	■	■
<b>PATTERN GLASS</b>	<b>460</b>	<b>960</b>	<b>970</b>
Delta Frost	■	■	■
Flemish	■	■	■
Gluechip	■	■	■
Narrow Reed	■	■	■
Obscure	■	■	■
Rain	■	■	■
Satin Etched		■	■
<b>GRILLE TYPES</b>	<b>460</b>	<b>960</b>	<b>970</b>
Grilles Between Glass (GBG)			
5/8" Flat	■	■	■
5/8" Sculptured		■	■
1" Sculptured		■	■
Simulated Divided Lite (SDL)			
7/8" SDL with Shadow Bar		■	■
1-1/4" SDL with Shadow Bar		■	■
2" SDL with Shadow Bar		■	■
2" Horizontal & 1-1/4" Vertical SDL w/ Shadow Bar		■	■
<b>GRILLE PATTERNS</b>	<b>460</b>	<b>960</b>	<b>970</b>
Colonial	■	■	■
Prairie	■	■	■
Double Prairie	■	■	■
Marginal Prairie	■	■	■
Plaza	■	■	■
Fractional	■	■	■
<b>HARDWARE</b>	<b>460</b>	<b>960</b>	<b>970</b>
Stainless Steel Hardware	■	■	■
Handle Color Finishes			
Color Matched Exterior/Interior	■	■	■
Interior Metal Finishes Only	■	■	■
Lock Type			
2-Point Lock	■	■	■
4-Point Lock		■	■
Multi-point Lock		■	
Keyed Options			
Not Keyed	■	■	■
Keyed Differently	■	■	■
Keyed Alike	■	■	■
Patio Door Rollers			
Cad/Zinc Rollers	■	■	■
Stainless Steel Rollers	■	■	■
	<b>SLIDING</b>		<b>FRENCH SLIDING</b>

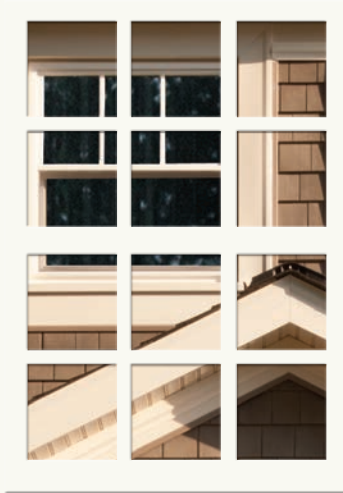


For more information, call 888-9PLYGEM  
[plygem.com/windows](https://plygem.com/windows)



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375110771146/RevL/MS/CG/0623

## 2000 SERIES



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 one name comes big advantages, starting with a national manufacturing and distribution network. Combine that with our commitment to customer service, sustainable practices and a wide variety of window styles that fit every design need, and you'll get the perfect window for every project and every budget.

As part of the Ply Gem family, you'll always have access to leading brands. From 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 more than 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.**





The house in this photo was the winner of Ply Gem's 2011 Designed Exterior Great Green Giveaway. Multiple Ply Gem exterior remodeling products were used in their award-winning design including Ply Gem's Contractor 2000 Series windows. For more details on the Ply Gem Designed Exterior, visit [www.designedexterior.com](http://www.designedexterior.com).

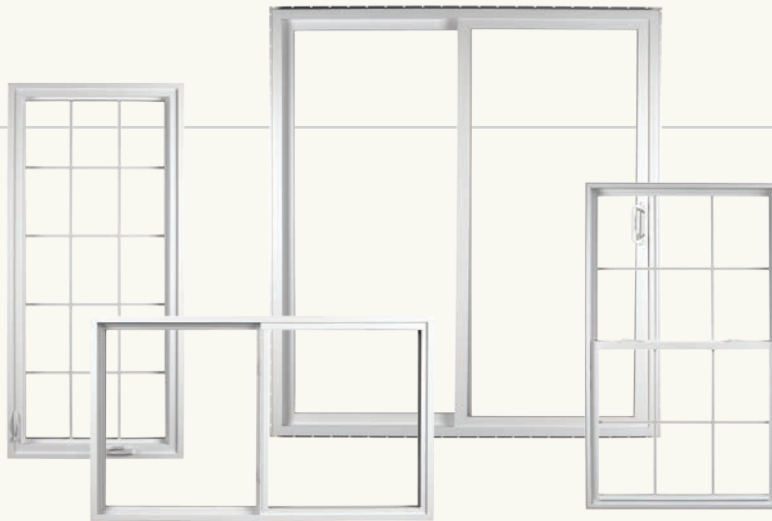
# CONTRACTOR SERIES

REPLACEMENT WINDOWS

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**Replacement windows with irreplaceable looks.**

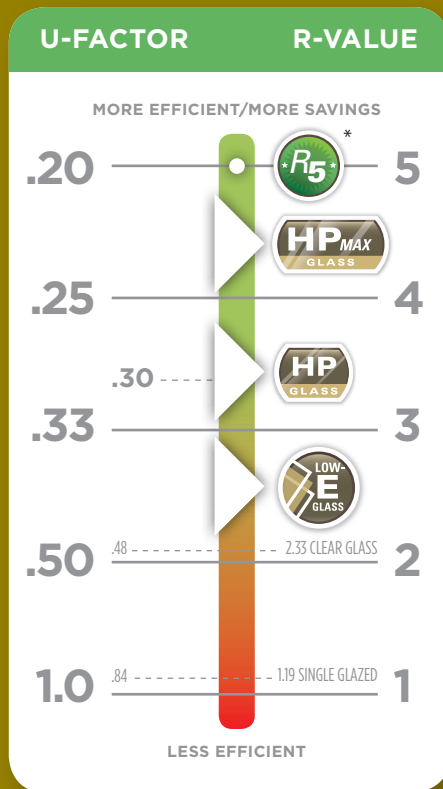
With Ply Gem Windows Contractor Series you can replace and remodel with confidence. That's because our windows deliver value, performance and style to any project and any home. When you're ready to replace your existing windows, Ply Gem Windows Contractor Series can help you make the most of your investment.



A WHOLE NEW POINT OF VIEW.

# 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 packages are 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>SC†</sup>** — One lite of solar cooling Low-E and one lite of Interior Surface Low-E

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

**Low-E3<sup>MAX†</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. Our HP glass package is also available with a solar cooling (<sup>SC</sup>) option 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** — Two lites of Low-E with 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 Contractor 2000 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 like you 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



Shown is Contractor 2000 Series double hung corner cut featuring HP<sub>MAX</sub> glass package upgrade with High DP Performance option.

## OVERALL FEATURES

- 1 Pinch fusion-welding construction creates a solid, one-piece unit with no excess variance for long-term durability
- 2 Warm Edge glass spacer system reduces thermal transfer around the glass perimeter by using a unique U-shaped channel to separate glass panes and interrupt the natural flow of heat to cold; upgrade to Warm Edge+ for enhanced performance
- 3 High DP performance option, featuring reinforced sash on double hung and sliding windows, ensures security and peace of mind when the weather outside is threatening
- 4 Available with Low-E, HP or HP<sub>MAX</sub> glass package options (see page 6 for details)
- 5 All product styles can be configured to meet ENERGY STAR® requirements in all states
- 6 NFRC rated and certified
- 7 3 ¼" frame depth for traditional pocket window installation
- 8 Designed with equal sight line sash on double hung for traditional wood window appearance
- 9 New Generation uPVC vinyl never needs painting or caulking and resists conducting heat and cold
- 10 Hidden SilLock design with a sloped sill eliminates the need for weep holes, forces water to drain to the exterior of the window and keeps your windows dry, providing enhanced weather-tight performance



**A** Warm Edge spacer (standard)



**B** Sleek cam-action sash locks on double hung and sliding windows provide security and performance without compromising beauty



**C** Pinch fusion-welding



## LIMITED LIFETIME WARRANTY

### One of Life's Few Guarantees.

Life comes with few guarantees. Fortunately, Contractor 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.

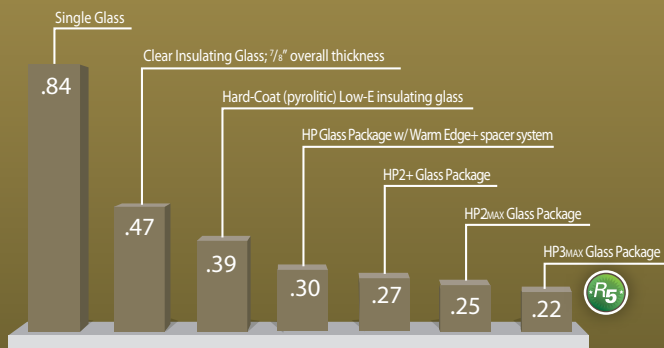
Our *Interior Surface Low-E* is engineered to have the characteristic window manufacturers and homeowners need most — lower U-Factor — and is applied to the surface of the glass you can touch inside your home, providing increased comfort and improved energy savings. One major benefit is a decrease in 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.

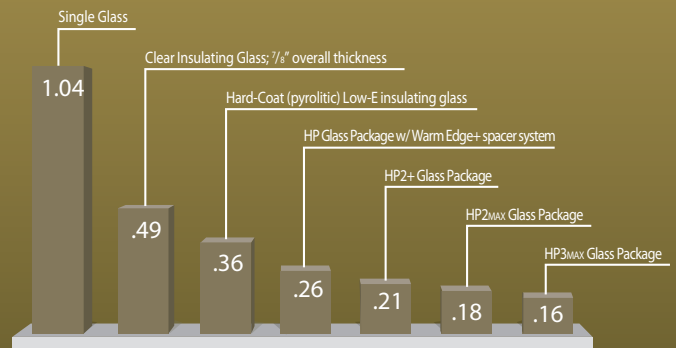
Ply Gem's Low-E glass has many advantages such as minimal visible darkening. Our glass minimizes interior glare, reducing eyestrain and making it easier to watch television or look at a computer screen when bright sunlight fills a room.

## GLASS COMPARISON — TOTAL UNIT — U-FACTOR



The lower the U-Factor the greater the insulation value. Total Unit Factors determined per NFRC-100 (National Fenestration Rating Council). The HP glazing option is certified to NFRC-100. HP w/ Warm Edge+ meets all ENERGY STAR® requirements. Based on double hung product style.

## GLASS COMPARISON — CENTER OF GLASS — U-FACTOR

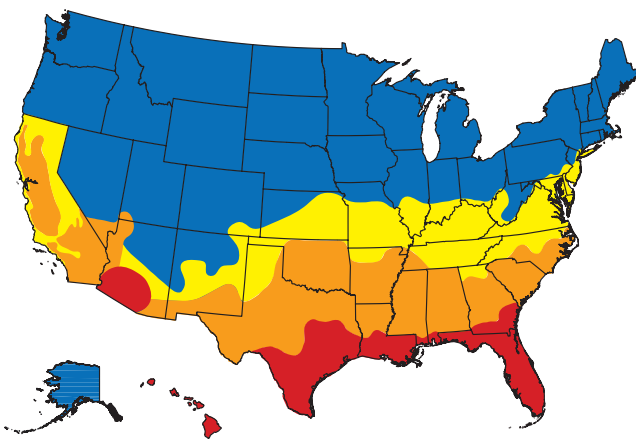


The lower the U-Factor the greater the insulation value. Center of glass factors calculated per Windows 5.2 simulation software (LBNL – Lawrence Berkeley National Laboratories).

## ENERGY STAR® INFORMATION



### ENERGY STAR® for Windows, Doors, and Skylights CLIMATE ZONE MAP



- Northern
- North-Central
- South-Central
- Southern

Ply Gem Replacement Contractor Series windows and patio doors can be configured with an optional glass package (see glass comparison charts above) 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, as well as increase the comfort level inside your home.



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

This means you can be assured that Ply Gem Contractor 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.



## 2000 DOUBLE HUNG WINDOW

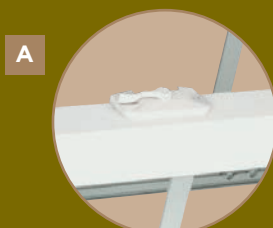
**2000 DOUBLE HUNG WINDOWS.** Open up a world of opportunities with our double hung windows. They're easy to operate, easy to clean and provide customers with the energy efficiency and durability they want. Configurations include singles, stationary and combinations and a wide variety of architectural shapes.

# 2000 DOUBLE HUNG WINDOW



## FEATURES

- 1 Maintenance-free multi-chamber PVC construction with fusion-welded sash and frame
- 2 Sleek cam-action sash locks provide security and enhanced performance without compromising beauty
- 3  $\frac{7}{8}$ " IGU glass systems with energy efficient Warm Edge (standard) or Warm Edge+ (optional upgrade) available in Low-E, HP or HP<sub>MAX</sub> glass package options (see page 6 for details)
- 4 High DP performance option, featuring reinforced sash, ensures security and peace of mind when the weather outside is threatening
- 5  $3\frac{1}{4}$ " frame depth for traditional pocket window installation with flange and fin options to meet a variety of installation options (flange, no fin nail fin or nail fin w/j-channel)
- 6 Designed with equal sight line sash for traditional wood window appearance
- 7 Both sash tilt in and are removable for easy and safe cleaning
- 8 Locking pivot bar and shoe assembly in upper sash and jamb jacks at meeting rail help ensure a square installation and enhance energy efficiency
- 9 Integral interlock system provides protection against air infiltration and makes window more secure
- 10 Double weatherstripped sash provides extra protection against dust, dirt and noise
- 11 Integral lift handles make opening windows easier
- 12 Extruded aluminum half screen with fiberglass mesh standard; full screen optional
- 13 Tested and approved to meet NFRC requirements; ENERGY STAR<sup>®</sup> units available
- 14 Interior and exterior accessory groove allows for a wide selection of installation options
- 15 Two ventilation limit latches standard, child safety latches optional
- 16 Hidden SilLock design with a sloped sill eliminates the need for weep holes, forces water to drain to the exterior of the window, and keeps your windows dry, providing enhanced weather-tight performance



A

Sleek cam-action sash locks provide security, performance and beauty



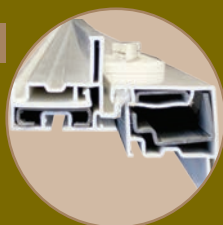
B

Ventilation limit latches



C

Optional child safety vent latch



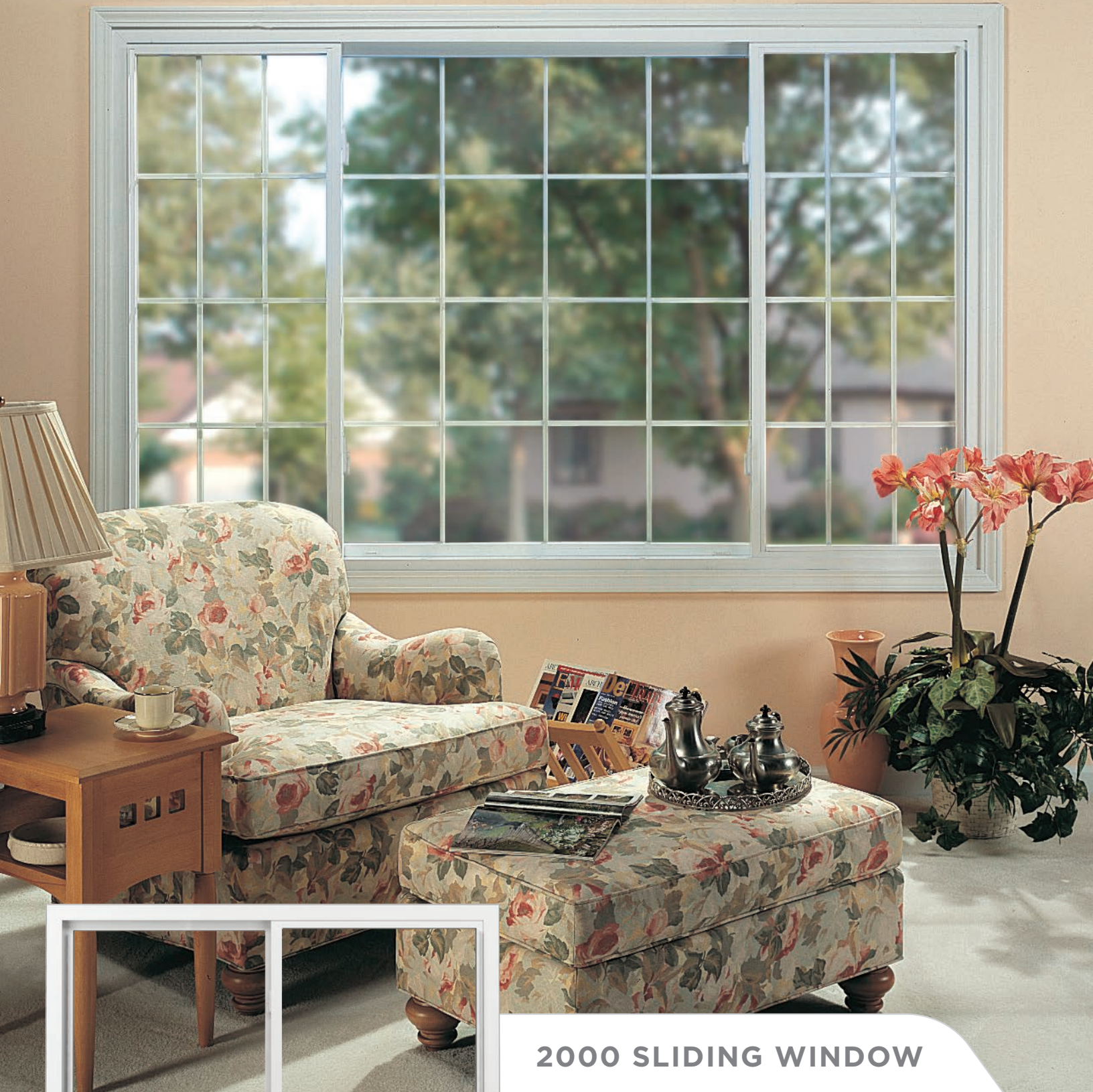
D

High DP Performance option features reinforced meeting rails



E

High DP Performance option features reinforced rails and stiles



## 2000 SLIDING WINDOW

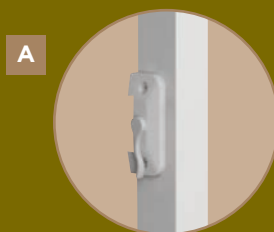
**2000 SLIDING WINDOWS.** Our sliding windows are some pretty smooth operators. Designed with a track and roller system that makes opening and closing easy, these windows perform just as good as they look. Available in two different picture configurations ( $\frac{1}{4}$ - $\frac{1}{2}$ - $\frac{1}{4}$  or  $\frac{1}{3}$ - $\frac{1}{3}$ - $\frac{1}{3}$ ).





## FEATURES

- 1 Maintenance-free multi-chamber PVC construction with fusion-welded sash and frame
- 2 3 1/4" frame depth for traditional pocket window installation with flange and fin options to meet a variety of installation options (flange, no fin nail fin or nail fin w/j-channel)
- 3 7/8" IGU glass systems with energy efficient Warm Edge (standard) or Warm Edge+ (optional upgrade) available in Low-E, HP or HP<sub>MAX</sub> glass package options (see page 6 for details)
- 4 High DP performance option, featuring reinforced sash, ensures security and peace of mind when the weather outside is threatening
- 5 Convenient lift-out sash for easy cleaning
- 6 Track and adjustable roller system for ease of operation
- 7 Sleek cam-action sash locks provide security and enhanced performance without compromising beauty
- 8 Double-opposed weatherstrip on sash ensures smooth operation
- 9 Extruded aluminum half screen with fiberglass mesh
- 10 Tested and approved to meet NFRC requirements; ENERGY STAR® units available
- 11 Interior and exterior accessory grooves provides a wide selection of installation options
- 12 One ventilation limit latch standard or child safety latch optional at bottom rail



A

Sleek cam-action sash locks provide security, performance and beauty



B

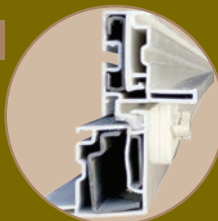
Ventilation limit latch



C

Optional child safety vent latch

D



High DP Performance option features reinforced meeting rails

E



High DP Performance option features reinforced rails and stiles



## 5100 CASEMENT & AWNING WINDOW

**5100 CASEMENT & AWNING WINDOWS.** Our casement and awning windows are a breath of fresh air. With a sash that opens 90°, your customers will enjoy great ventilation and will be able to clean it with ease. Plus, our awning windows can be combined, mullied and stacked with fixed casement picture windows. Configurations include singles, stationary and factory mullied twins and triples.



## FEATURES

- 1 Maintenance-free multi-chamber PVC construction with fusion-welded sash and frame
- 2  $\frac{7}{8}$ " IGU glass systems with energy efficient Warm Edge (standard) or Warm Edge+ (optional upgrade) available in Low-E, HP or HP<sub>MAX</sub> glass package options (see page 6 for details)
- 3  $3\frac{1}{4}$ " frame depth for traditional pocket window installation
- 4 Interior and exterior accessory grooves provides a wide selection of installation options
- 5 Available right- or left-hand operating
- 6 Sash opens 90° for ventilation and easy cleaning
- 7 Single-handle multi-point locking system
- 8 Awning windows can be combined / mulled / stacked with fixed casement picture windows
- 9 Adjustable hinges
- 10 Full screen with fiberglass mesh
- 11 Tested and approved to meet NFRC requirements; ENERGY STAR® units available



NOTE: This product manufactured in our Toledo, OH facility.

**A**



Color-coordinated lock features a sleek low profile that won't interfere with window dressing

**B**



Color-coordinated crank handle

**C**



Split-arm gear operator on sizes up to 36" x 60". Dual-arm gear operator on larger units



## 5000 CASEMENT & AWNING WINDOW

**5000 CASEMENT & AWNING WINDOWS.** Our casement and awning windows are a breath of fresh air. With a sash that opens 90°, your customers will enjoy great ventilation and will be able to clean it with ease. Plus, our awning windows can be combined, mullied and stacked with fixed casement picture windows. Configurations include singles, stationary and factory mullied twins and triples.



## FEATURES

- 1 Maintenance-free multi-chamber PVC construction with fusion-welded sash and frame
- 2  $\frac{3}{4}$ " IGU glass systems with energy efficient Warm Edge (standard) or Warm Edge+ (optional upgrade) available in Low-E or HP glass package options (see page 6 for details)
- 3 Welded corners on frame and sash
- 4  $3\frac{9}{16}$ " frame depth
- 5 Interior accessory groove
- 6 Available right- or left-hand operating
- 7 Sash opens 90° for ventilation and easy cleaning
- 8 Single-handle multi-point locking system
- 9 Awning windows can be combined / mulled / stacked with fixed casement picture windows
- 10 Adjustable hinges
- 11 Full screen with fiberglass mesh
- 12 Tested and approved to meet NFRC requirements; ENERGY STAR® units available



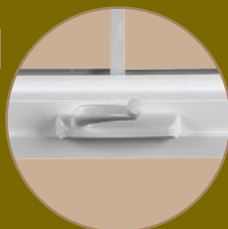
NOTE: This product manufactured in our Rocky Mount, VA facility.

**A**



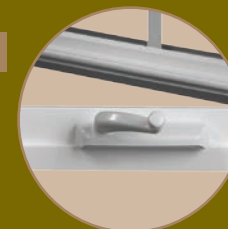
Color-coordinated lock features a sleek low profile that won't interfere with window dressing

**B**



Color-coordinated crank handle

**C**



Split-arm gear operator on sizes up to 36" x 60". Dual-arm gear operator on larger units



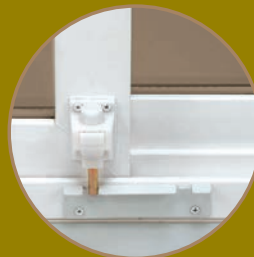
## 5800 SLIDING PATIO DOOR

**5800 SLIDING PATIO DOORS.** Strength. Energy efficiency. Performance. When your customers are looking for a patio door, it's time to unlock the potential of our sliding patio doors. They give a home more room and more beauty. Configurations include operating, transoms, fixed panels and side lites.



## FEATURES

- 1 Pinch fusion-welded for a weathertight assembly with maximum strength
- 2 3/4" IGU glass systems with energy efficient Warm Edge (standard) or Warm Edge+ (optional upgrade) available in Low-E or HP glass package options (see page 6 for details)
- 3 Unique self-centering interlock improves operation and performance
- 4 Field reversible both before and after installation
- 5 Color-coordinated handle
- 6 Operating units available in 5', 6' and 8' widths, and 79 1/2" or 81 1/2" heights
- 7 Aluminum threshold and sill track
- 8 Tested and approved to meet NFRC requirements; ENERGY STAR® units available
- 9 Screen door with fiberglass mesh
- 10 Classic brass or brushed chrome hardware with key lock available



Optional footbolt

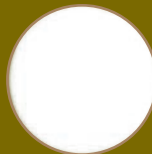
NOTE: This product manufactured in our Toledo, OH facility.



Handle

### Standard handle colors:

WHITE



BEIGE

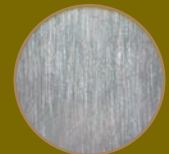


### Optional handle colors:

CLASSIC BRASS



BRUSHED CHROME





## 5700 SLIDING PATIO DOOR

**5700 SLIDING PATIO DOORS.** Strength. Energy efficiency. Performance. When your customers are looking for a patio door, it's time to unlock the potential of our sliding patio doors. They give a home more room and more beauty. Configurations include operating, transoms, fixed panels and side lites.







## FEATURES

- 1 Pinch fusion-welded for a weathertight assembly with maximum strength
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- 7 Aluminum threshold and sill track
- 8 Tested and approved to meet NFRC requirements; ENERGY STAR® units available
- 9 Screen door with fiberglass mesh
- 10 Classic brass hardware with key lock available



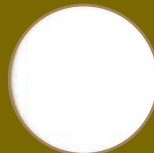
NOTE: This product manufactured in our Rocky Mount, VA facility.



Handle

### Standard handle colors:

WHITE



BEIGE



### Optional handle colors:

CLASSIC BRASS



## CUSTOM GRILLES



5/8" Flat GBG



1 1/16" Sculptured GBG

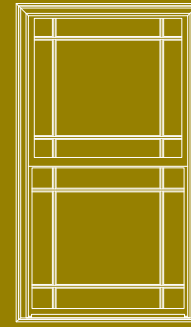


7/8" SDL\*

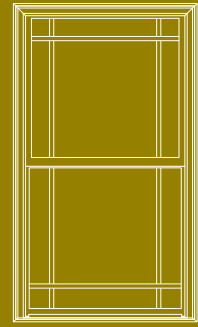
GBG = Grilles-Between-the-Glass  
SDL = Simulated-Divided-Lite

\* Not available in combination with triple pane glass packages.

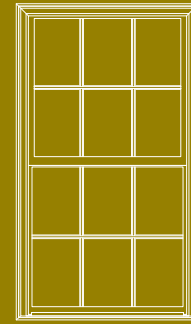
## GRILLE PATTERNS



Prairie



Perimeter Prairie

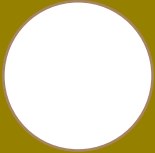


Colonial

## COLOR OPTIONS

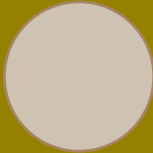
### WHITE

INTERIOR/EXTERIOR



### BEIGE

INTERIOR/EXTERIOR



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

## ARCHITECTURAL SHAPES/FIXED



Full Round



Eyebrow



Quarter Round, Left or Right



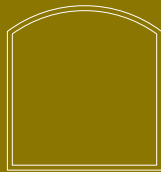
Half Round



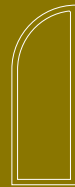
Right Angle Triangle, Left or Right



Isosceles Triangle



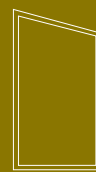
Extended Eyebrow



Extended Quarter Round, Left or Right



Extended Half Round



Trapezoid, Left or Right



Extended Quarter Eyebrow, Left or Right

## SCREEN OPTIONS

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

### ALUMINUM MESH

Provides added protection against aggressive regional insects that eat through normal fiberglass mesh. Charcoal finish reduces glare.

### SOLAR BLOCK MESH

Blocks 70% of the sun's heat and glare. Keeps living spaces cooler, reduces energy costs and protects furnishings against fading.

### OPTIMUM VIEWING MESH

Thinner fiberglass material allows maximum viewing while tighter mesh pattern keeps tiny insects out.

# FRAME OPTIONS

# GLASS OPTIONS\*

## IDEAL FOR REPLACEMENT



NO FIN



FLANGE

## IDEAL FOR NEW CONSTRUCTION\*



NAIL FIN



NAIL FIN w/J-CHANNEL

\* Note: For proper installation, windows with nail fin options require both fasteners through jambs and the nail fin.

- Low-E
- Low-E<sup>SC</sup>
- Low-E2
- Low-E2<sup>SC</sup>
- Low-E2<sup>MAX</sup>\*
- Low-E3<sup>MAX</sup>\*
- HP
- HP<sup>SC</sup>
- HP2
- HP2+
- HP2<sup>MAX</sup>\*
- HP3<sup>MAX</sup>\*
- Tinted
- Double Strength glass
- Obscure
- Glue Chip Obscure
- Tempered
- Laminated (security)
- Sound Package (off-set glass)

\* See page 6 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 Windows sales representative for a full list of Contractor Series glass thickness options and ratings.



Optional Advanced Easy Clean® Glass is a remarkable advancement in glass design that eliminates frequent exterior window cleaning. Windows and doors with special Easy Clean Glass require less effort than windows with ordinary glass.

# ICON GLOSSARY

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



### SIL LOCK

Contractor 2000 Series windows with SilLock are built with a sloped sill, which forces water to drain to the exterior of the window, keeping your windows dry. This unique design also ensures a tight weatherstrip contact at the sill.



### 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 Contractor Series Replacement 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 Contractor Series Replacement 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 Contractor Series Replacement windows can be ordered in 1/8" increments to accommodate any replacement application providing a perfect fit and minimizing installation time and special trimming requirements.



### WARM EDGE TECHNOLOGY

Our standard Warm Edge glass spacer system within Ply Gem Contractor Series Replacement 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.



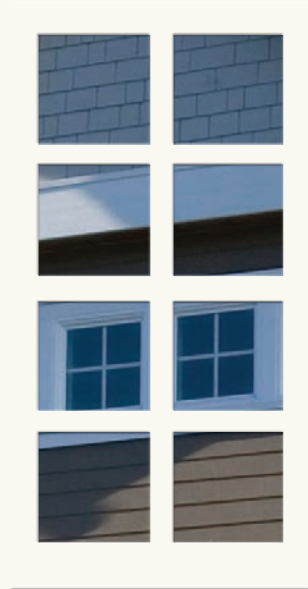
### WARM EDGE+ TECHNOLOGY

Our optional Warm Edge+ 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.



Ply Gem, the Ply Gem logo, the "Building Products. Building Success." slogan, Ply Gem Windows and the Ply Gem Windows logo are trademarks of Ply Gem Industries, Inc. ENERGY STAR® is a registered trademark of the U.S. Environmental Protection Agency. ©2017 Ply Gem Industries, Inc. 3751101101146/Rev1/MS/CG/0717

For more information, call 888-9PLYGEM.



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 one name comes big advantages, starting with a national manufacturing and distribution network. Combine that with our commitment to customer service, sustainable practices and a wide variety of window styles that fit every design need, and you'll get the perfect window for every project and every budget.

As part of the Ply Gem family, you'll always have access to leading brands. From 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 more than 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.**





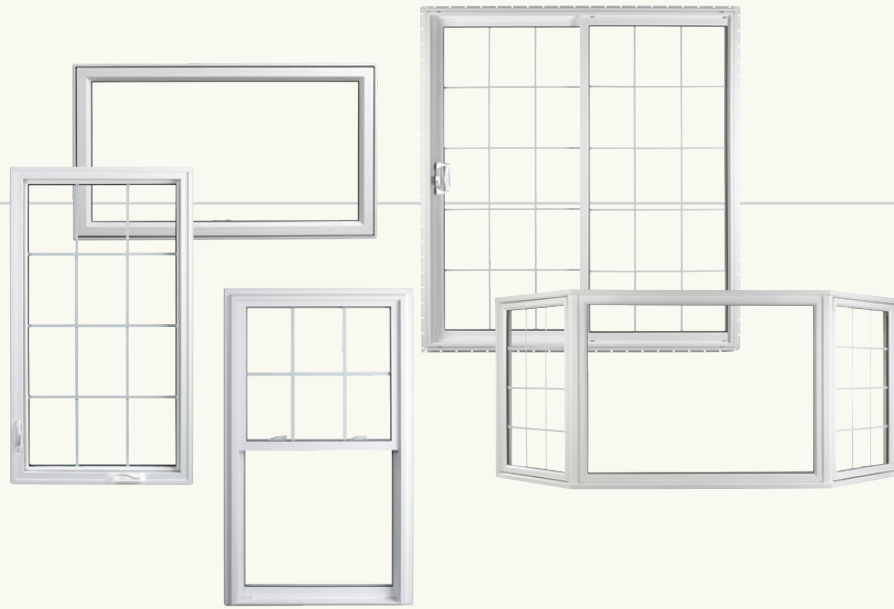
# PRO SERIES

REPLACEMENT WINDOWS

## TABLE OF CONTENTS

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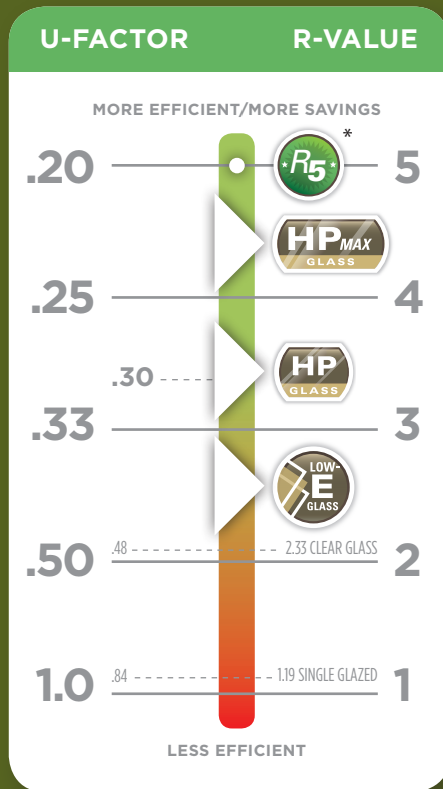
**Built to last. Made to impress.** You have a vision for how you want your replacement windows to look. Ply Gem Windows Pro Series can help you realize that vision. Every window is designed to fit your needs. You'll find the right sizes, the right designs and the right solutions to help make your window replacement project a success.



A WHOLE NEW POINT OF VIEW.

# 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 FOR HIGH ALTITUDES

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 packages are 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 altitude applications.

**Low-E<sup>+</sup>** — 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>SC+</sup>** — One lite of solar cooling Low-E and one lite of Interior Surface Low-E

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

**Low-E3<sup>MAX+</sup>** — 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 altitude 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. Our HP glass package is also available with a solar cooling (<sup>SC</sup>) option 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** — Two lites of Low-E with 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



## OVERALL FEATURES

- 1 Glass systems with Warm Edge (standard) or Warm Edge+ (optional upgrade) spacer systems and HP or HP<sub>MAX</sub> glass package options offer increased energy efficiency
- 2 Vinyl won't conduct heat or cold, dramatically reducing frost and condensation
- 3 Pinch fusion-welded sash and mainframes for high strength and high energy efficiency
- 4 Double hung windows feature integral interlock for a weathertight seal and extra security
- 5 New Generation uPVC vinyl never needs painting or caulking and resists conducting heat and cold
- 6 Limited lifetime warranty means your windows are protected under the warranty for as long as you own your home
- 7 Sloped sill with unique SilLock design ensures natural water run-off
- 8 Warm Edge glass spacer systems reduce thermal transfer around the glass perimeter by using a unique U-shaped channel to separate glass panes and interrupt the natural flow of heat to cold



A



Fusion-welded strength

B



Warm Edge spacer

## DESIGN PRESSURE (DP) RATINGS



Ply Gem Pro Series products are tested to meet the air, water and structure requirements of AAMA/WDMA 101/I.S.2. Our products meet a Design Pressure (DP) rating of 35 (double hung) to as high as 70 (operating casement gateway size of 24" x 60").

With advanced level engineering and top-notch innovation, you are assured of the most durable, high-performing windows available nationwide.

Ask your Ply Gem Windows dealer or distributor for specific DP ratings for each Pro replacement style.



## LIMITED LIFETIME WARRANTY

### One of Life's Few Guarantees.

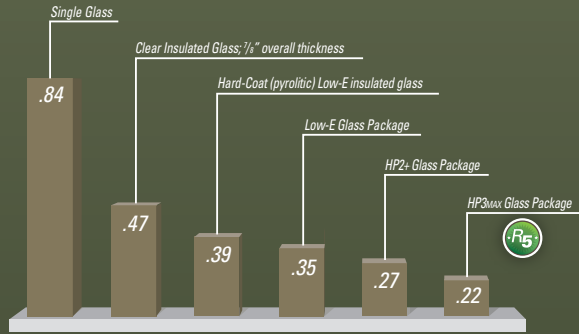
Life comes with few guarantees. Fortunately, Pro Windows offer you a permanent solution. Our custom vinyl windows offer more than construction quality, unmatched energy efficiency and low maintenance. They also offer a Limited Lifetime Warranty.

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?**

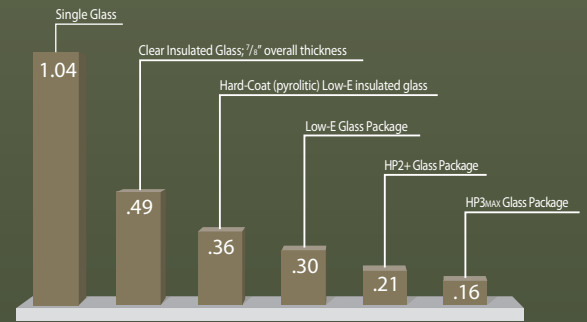


## GLASS COMPARISON — TOTAL UNIT — U-FACTOR



The lower the U-Factor the greater the insulation value.  
Total Unit Factors determined per NFRC-100 (National Fenestration Rating Council). The HP glazing option is certified to NFRC-100, and HP+Plus meets all ENERGY STAR requirements. Based on double hung product style.

## GLASS COMPARISON — CENTER OF GLASS — U-FACTOR

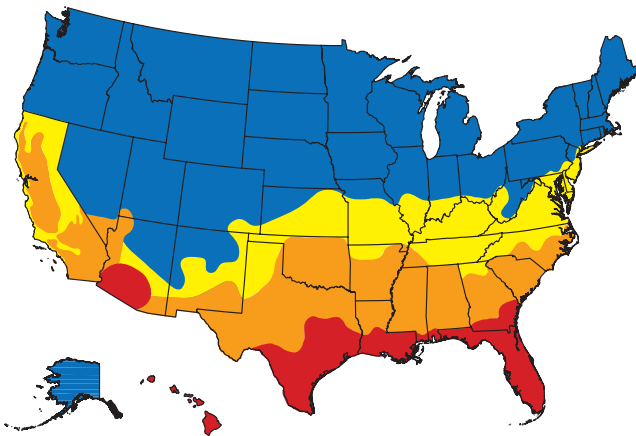


The lower the U-Factor the greater the insulation value.  
Center of glass factors calculated per Windows 5.2 simulation software (LBNL - Lawrence Berkeley National Laboratories).

## ENERGY STAR® INFORMATION



### ENERGY STAR® for Windows, Doors, and Skylights CLIMATE ZONE MAP



- Northern
- North-Central
- South-Central
- Southern

Ply Gem Replacement 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, as well as increase the comfort level inside your home.



**Home Innovation**  
NGBS GREEN CERTIFIED™

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](http://www.GreenApprovedProducts.com) for more details.



## DOUBLE HUNG WINDOW

**DOUBLE HUNG WINDOWS** offer beauty, maintenance freedom and peace of mind at a price you can live with. Configurations include operating, fixed and factory mullered units.



## Color Options



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

## FEATURES

- 1 Equal sightline sash to match traditional wood window appearance
- 2 Ventilation limit-locks for added security when windows are partially open. Optional child safety vent latch available
- 3 Fusion-welded frames and sash stay strong and in place for a lifetime of dependable performance
- 4 Fin and pile weatherstripping on both sash and mainframe protect against air, dust and moisture
- 5 Constant force balance system
- 6 New sleek, low-profile design — two cam-action locks on windows over 25" wide
- 7 Warm Edge (standard) or Warm Edge+ (optional upgrade) spacer systems and HP or HP<sub>MAX</sub> glass package options offer increased energy efficiency
- 8 Lift rail for ease of operation
- 9 Ergonomically designed tilt latch buttons for easy tilting in of both sashes makes it easy and safe to clean the exterior of the window
- 10 New Generation uPVC vinyl never needs painting or caulking and resists conducting heat and cold
- 11 Extruded aluminum half-screen with fiberglass mesh
- 12 SilLock design — featuring sloped sill to keep windows dry and weather-tight seal at sill
- 13 Integral interlock and dual fin and pile weatherstripping on both sash and airframe for protection against air, dust and moisture



A

Cam-action locks



C

Optional child safety vent latch



B

Ventilation limit latches



D

Tilt-latch for ease of cleaning



## SLIDING WINDOW

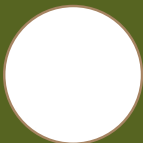
**SLIDING WINDOWS.** Panoramic vistas meet ultimate convenience with our sliding windows. Their undeniable beauty is matched only by their superior thermal performance, letting you enjoy your view ever so comfortably. Available sliding window configurations include two- and three-lite configurations. Three-lite configurations available in  $\frac{1}{4}$ - $\frac{1}{2}$ - $\frac{1}{4}$  lite and  $\frac{1}{3}$ - $\frac{1}{3}$ - $\frac{1}{3}$  equal lite.





## Color Options

### INTERIOR



WHITE

### EXTERIOR



WHITE



EARTHTONE



DARK BRONZE



BEIGE



SANDSTONE

### INTERIOR



BEIGE

### EXTERIOR



BEIGE

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

## FEATURES

- 1 State-of-the-art track and adjustable roller system for easy gliding
- 2 Fully fusion-welded sash and mainframe for extra strength
- 3 Ventilation limit-locks for added security when windows are partially open. Optional child safety vent latch available
- 4 New sleek, low-profile design, cam-action locks on windows over 25" tall
- 5 In-home removable sash for safe, easy cleaning
- 6 Warm Edge (standard) or Warm Edge+ (optional upgrade) spacer systems and HP or HP<sub>MAX</sub> glass package options offer increased energy efficiency
- 7 Integral interlock and dual fin and pile weatherstripping on both sash and mainframe for protection against air, dust and moisture
- 8 Extruded aluminum half-screen with fiberglass mesh
- 9 Trim line design for maximum viewing area
- 10 New Generation uPVC vinyl never needs painting or caulking and resists conducting heat and cold



A



Cam-action locks

C



Ventilation limit lock open

B



Ventilation limit lock closed

D



Optional child safety vent latch



## CASEMENT & AWNING WINDOW

**CASEMENT & AWNING WINDOWS.** Dressing up your home with European flair has never been so easy or rewarding. With a full 90° sweep, these windows give nature a warm welcome in nice weather. But they work even better at giving bad weather the cold shoulder. Configurations include single, twin, triple and quad with integral or factory mullied options.



## FEATURES

- 1 Fusion-welded frames and sash stay strong and in place for a lifetime of dependable performance
- 2 Casements open a full 90° for easier, safer cleaning
- 3 Aluminum extruded screen with low profile retention clips
- 4 Warm Edge (standard) or Warm Edge+ (optional upgrade) spacer systems and HP or HP<sub>MAX</sub> glass package options offer increased energy efficiency
- 5 Easy-to-reach multi-point locking system provides increased security with a single conveniently located handle
- 6 New Generation uPVC vinyl never needs painting or caulking and resists conducting heat and cold
- 7 Folding/nested operating handles are standard on all Pro Series casement & awning windows
- 8 Upgrade casement windows with the optional stainless steel hardware for protection against corrosion in coastal areas; this option includes the operator mechanism arms, sash brackets, hinges, snubbers, tiebars and keepers



## Color Options



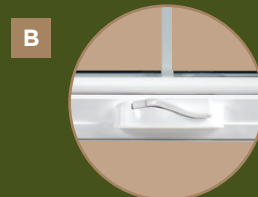
Colors are reproduced as accurately as printer technology allows. Please see your authorized Ply Gem Windows representative for actual samples.



Upgrade casement windows with the Pro Series stainless steel hardware option to provide protection against corrosion in coastal areas.



**A** Fusion-welded strength



**B** Folding/nested operator handle



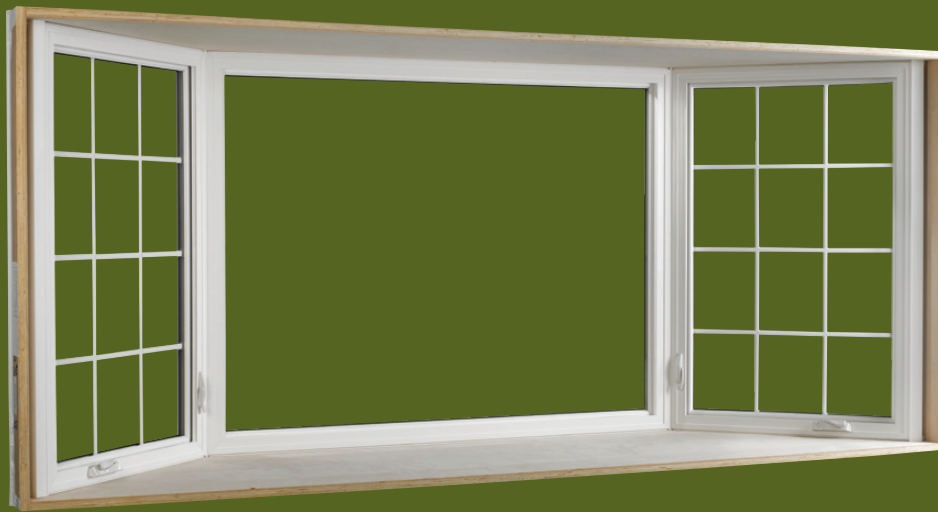
**C** Matching lock features a sleek low-profile design that, in either the locked or unlocked position, won't interfere with curtains or blinds

1. Most awning and operating casement windows meet a Design Pressure (DP) rating of 70 (gateway size of 24" x 60") and most fixed casement windows meet a Design Pressure (DP) rating of 45.



## BAY WINDOW

**BAY WINDOWS.** All the world's a stage, and this is your personal theater. The best part is that while the drama happens outdoors, award-winning performances for beauty and energy efficiency go on and on inside. Bays available in 3 or 4-window, 35° and 45° configurations.



Knee Braces

## Pre-finished or Laminated Interior Head, Seat and Jamb Options

BIRCH



OAK



## Solid Surface Seat Options



Cameo White



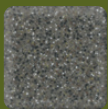
Beach



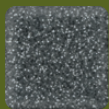
Sandstone



Dusk



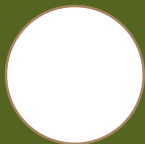
Dark Brown



Black

## Color Options

INTERIOR



WHITE

EXTERIOR



WHITE



EARTHTONE



DARK BRONZE



BEIGE



SANDSTONE

INTERIOR



BEIGE

EXTERIOR



BEIGE

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

## FEATURES

- 1 Custom made to ensure a good fit in your home
- 2 Fusion-welded frames and sash for extra strength and dependable performance
- 3 Available in casement or double hung styles
- 4 Choose from four available grille options
- 5 Warm Edge (standard) or Warm Edge+ (optional upgrade) spacer systems and HP or HP<sub>MAX</sub> glass package options offer increased energy efficiency
- 6 Heavy-duty weatherstripping ensures a tighter seal
- 7 Multi-point locking system secures the window in several locations simultaneously with a single handle
- 8 New Generation uPVC vinyl never needs painting or caulking and resists conducting heat and cold



## Support and Insulation Systems

### (2) Cable Kits Standard

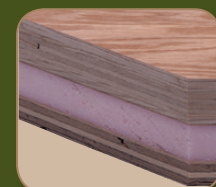
#### External Knee Braces

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

<sup>1</sup> Knee braces and cable system kits are required for bay/bow windows and are included with the window.

### Superior Insulated Seats

- 1 Insulated with high density polystyrene insulating board combined with a 3/4" exterior grade plywood surface – 3" overall thickness
- 2 R-Value of 7.6 – six times that of a typical non-insulated bay/bow windows
- 3 Available in white or beige (earthtone units are clad with brown coil)





## BOW WINDOW

**BOW WINDOWS.** Adding a touch of sophistication to your home is easy with these custom-made Bow Windows. Offering an array of designer accessories, these windows are available in 3, 4 or 5-window configurations.



Knee Braces

## Pre-finished or Laminated Interior Head, Seat and Jamb Options

BIRCH



OAK



## Solid Surface Seat Options



Cameo White

Beach

Sandstone

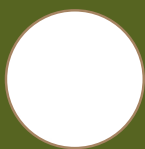
Dusk

Dark Brown

Black

## Color Options

INTERIOR



WHITE

EXTERIOR



WHITE



EARTHTONE



DARK BRONZE



BEIGE



SANDSTONE

INTERIOR



BEIGE

EXTERIOR



BEIGE

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

## FEATURES

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- 3 Available in casement or double hung styles
- 4 Choose from four available grille options
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- 7 Multi-point locking system secures the window in several locations simultaneously with a single handle
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## Support and Insulation Systems

### (2) Cable Kits Standard

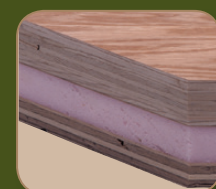
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- 2 Available in white, beige, earthtone and sandstone
- 3 Pre-finished to be maintenance free

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### Superior Insulated Seats

- 1 Insulated with high-density polystyrene insulating board combined with a 3/4" exterior grade plywood surface – 3" overall thickness
- 2 R-Value of 7.6 – six times that of typical non-insulated bay/bow windows
- 3 Available in white or beige (earthtone units are clad with brown coil)





## SLIDING PATIO DOOR

**SLIDING PATIO DOORS** are your home's way of welcoming guests with arms wide open. But when heat, cold, rain, wind or intruders come knocking, this beauty is tough as nails. Configurations include two-panel units with optional complementary side lites and transoms.





## FEATURES

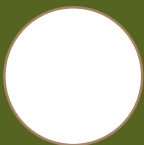
- Both the panels and frame are fully welded for superior strength and durability
- Full perimeter, high performance weatherstripping
- Warm Edge (standard) or Warm Edge+ (optional upgrade) spacer systems and HP or HP<sub>MAX</sub> glass package options offer increased energy efficiency
- Doors glide on tandem steel rollers, which provide smooth and effortless operation, no matter how many times they are opened and closed
- Add the convenience of an easy-to-activate security lock that allows you to vent your home while providing peace of mind
- Standard sizes: 5' x 68", 6' x 68" and 8' x 68"
- Side lites and transoms available
- New Generation uPVC vinyl never needs painting or caulking and resists conducting heat and cold



Optional footbolt

## Color Options

INTERIOR / EXTERIOR



WHITE

INTERIOR / EXTERIOR



BEIGE

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

Pro Replacement Series Sliding Patio Doors are available in white (interior/exterior) and beige (interior/exterior) only.

## Standard handle colors:

WHITE

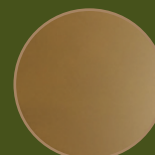


BEIGE

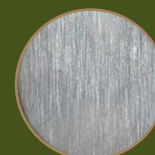


## Optional handle colors:

CLASSIC BRASS



BRUSHED CHROME



Handle

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

# GLASS OPTIONS

- Low-E
- Low-E<sup>SC</sup>
- Low-E2
- Low-E2<sup>SC</sup>
- Low-E2<sup>MAX</sup>\*
- Low-E3<sup>MAX</sup>\*
- HP
- HP<sup>SC</sup>
- HP2
- HP2+
- HP2<sup>MAX</sup>\*
- HP3<sup>MAX</sup>\*
- Tinted
- Double Strength glass
- Obscure
- Glue Chip Obscure
- Tempered
- Laminated  
(security)
- Sound Package  
(off-set glass)

\* See page 6 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.



**Optional Advanced Easy Clean® Glass** is a remarkable advancement in glass design that eliminates frequent exterior window cleaning. Windows and doors with special Easy Clean Glass require less effort than windows with ordinary glass.

## 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, works to reflect interior 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.

### 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.



## SCREEN OPTIONS

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

### ALUMINUM MESH

Provides added protection against aggressive regional insects that eat through normal fiberglass mesh. Charcoal finish reduces glare.

### SOLAR BLOCK MESH

Blocks 70% of the sun's heat and glare. Keeps living spaces cooler, reduces energy costs and protects furnishings against fading.

### OPTIMUM VIEWING MESH

Thinner fiberglass material allows maximum viewing while tighter mesh pattern keeps out tiny insects.

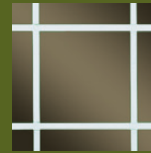
## GRILLES-BETWEEN-THE-GLASS



3/8" Flat Colonial



3/8" Flat Diamond



3/8" Flat Perimeter



11/16" Sculptured Colonial



1" Sculptured Colonial

## ICON GLOSSARY

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



### WARM EDGE TECHNOLOGY

The Warm Edge glass spacer system within Ply Gem Pro Series Replacement 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.



### SIL LOCK

Pro Series Replacement double hung windows with SilLock are built with a sloped sill, which forces water to drain to the exterior of the window, keeping your windows dry. This unique design also ensures a tight weatherstrip contact at the sill.



### WARM EDGE+ TECHNOLOGY

The Warm Edge+ 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.



### CUSTOM SIZING

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



### R-CORE® INSULATION

Available as an option on the Ply Gem Windows Pro Series, the vinyl mainframes can be filled with patented\* R-Core® offering more than twice the insulating performance as the typical wood frame and nearly 4x more than hollow vinyl or aluminum frames.



### COASTAL HARDWARE

Typical hardware can easily become corroded or damaged when exposed to constant salt in the air. Ply Gem windows with coastal hardware will consistently stand up to saltwater and other harsh coastal conditions.



### 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 Pro Series Replacement 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.



### DP CERTIFIED

Ply Gem Pro Series Replacement windows are tested to meet the air, water and structure requirements of AAMA/WDMA 101/I.S.2. Our products meet a Design Pressure (DP) rating of 35 (double hung) to as high as DP70 operating casement (gateway size of 24" x 60"). With advanced level engineering and top-notch innovation, you are assured of the most durable, high-performing windows available nationwide.



### PINCH FUSION WELDING

Ply Gem Pro Series Replacement 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, the Ply Gem logo, the “Building Products. Building Success.” slogan, Ply Gem Windows and the Ply Gem Windows logo are trademarks of Ply Gem Industries, Inc. R-Core and Advanced Easy Clean are registered trademarks of Ply Gem Windows. ENERGY STAR® is a registered trademark of the U.S. Environmental Protection Agency. ©2018 Ply Gem Industries, Inc.

For more information, call 888-9PLYGEM.

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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 one name comes big advantages, starting with a national manufacturing and distribution network. Combine that with our commitment to customer service, sustainable practices and a wide variety of window styles that fit every design need, and you'll get the perfect window for every project and every budget.

As part of the Ply Gem family, you'll always have access to leading brands. From 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 75 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.**





# PREMIUM SERIES

REPLACEMENT WINDOWS

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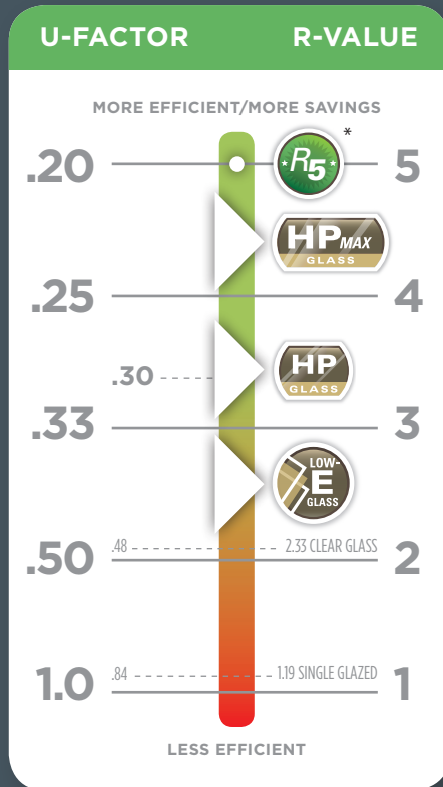
**Stunning statements. Smart solutions.** Stand out with a stylish new look. Upgrade to a more energy-efficient option. Recreate the authentic look of an old window. Whatever your reason, when you're ready for replacement windows choose the ultimate in performance and luxury – choose Ply Gem Windows Premium Series Replacement. These custom, top-of-the-line windows provide great looks that last. With styles and options to meet the demands of even the most discriminating homeowner and performance to match, this is truly a replacement window for a lifetime of luxury.



A WHOLE NEW POINT OF VIEW.

# 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 packages are 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>SC†</sup>** — One lite of solar cooling Low-E and one lite of Interior Surface Low-E

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

**Low-E3<sup>MAX†</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. Our HP glass package is also available in a solar cooling (<sup>SC</sup>) glass package 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** — Two lites of Low-E with 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 Premium 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

## OVERALL FEATURES

- 1 Pinch fusion-welding construction creates a solid, one-piece unit with no excess variance for long-term durability
- 2 Heavy-duty weatherstripping provides a barrier to air and water, saving energy dollars
- 3 Sloped sill with unique SilLock design ensures natural water runoff
- 4 Premium Series comes standard with the vinyl mainframe filled with patented R-Core® insulation (pre-expanded high-density solid polyurethane), the same type used in many refrigerator/freezer doors; for enhanced performance Premium Series Energy Package options feature the mainframe and sash filled with patented R-Core
- 5 Interforce II™ reinforced meeting rails on double hung and sliding windows with Premium Series Energy Package options feature internal structural fiberglass extrusions for reinforcement along with an integral interlocking system, providing unsurpassed strength and durability without conduction
- 6 Glass systems with Warm Edge (standard) or Warm Edge+ (optional upgrade) spacer systems and HP or HP<sub>MAX</sub> glass package options (see page 6 for details) offer increased energy-efficiency
- 7 New Generation uPVC vinyl never needs painting or caulking and resists conducting heat and cold



A



Fusion-welded strength

B



R-Core® insulated frames and sash

C



Interforce II™ fiberglass-reinforced sash meeting rails

D



Warm Edge spacer (standard)

## DESIGN PRESSURE (DP) RATINGS



Ply Gem Premium Series products are tested to meet the air, water and structure requirements of AAMA/WDMA 101/I.S.2. Our products meet a Design Pressure (DP) rating of 35 (double hung) to as high as DP70 (operating casement gateway size of 24" x 60").

With advanced level engineering and top-notch innovation, you are assured of the most durable, high-performing windows available nationwide.

Ask your Ply Gem Windows dealer or distributor for specific DP ratings for each Premium Series replacement style.

## ENERGY PACKAGE UPGRADE OPTIONS



The Energy Package Upgrade options include the HP Glass Package (see page 6 for glass package options) of your choice with the addition of R-Core to the sash and frame. R-Core is a patented process utilizing pre-formed polyurethane insulation. In addition, Interforce II™ fiberglass reinforcement is placed in the meeting rails of double hung and slide windows providing DP50 and DP45 product ratings. The Energy Package options provide unsurpassed strength, durability and energy-efficiency.

## LIMITED LIFETIME WARRANTY

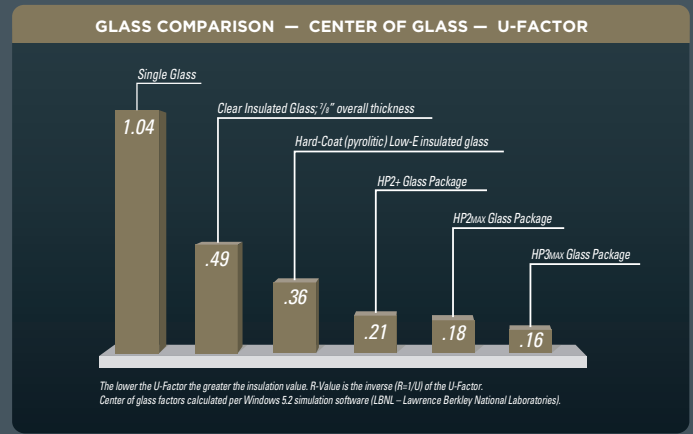
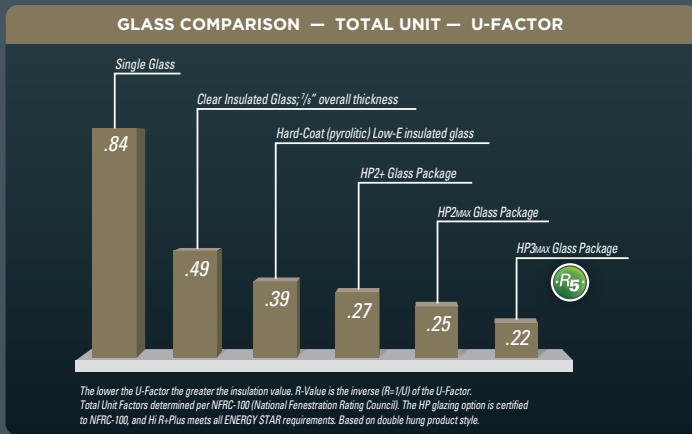
### One of Life's Few Guarantees.

Life comes with few guarantees. Fortunately, Premium 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?





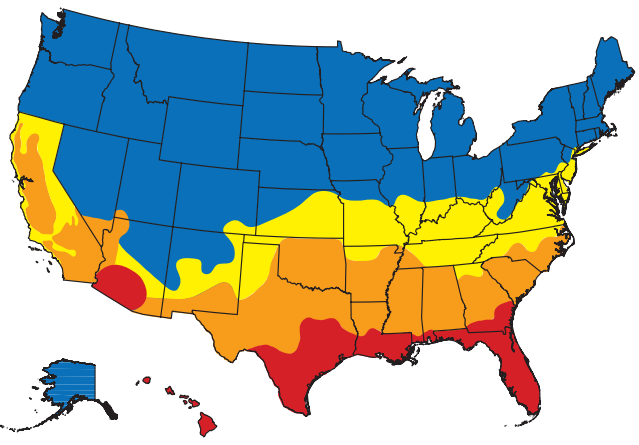
## ENERGY STAR® INFORMATION



### ENERGY STAR® for Windows, Doors, and Skylights

## CLIMATE ZONE MAP

LEARN MORE AT [energystar.gov](http://energystar.gov)



- Northern
- North-Central
- South-Central
- Southern

Ply Gem Replacement Premium 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, as well as increase the comfort level inside your home.



PLY GEM PREMIUM SERIES WINDOWS HAVE BEEN GREEN APPROVED BY THE HOME INNOVATION RESEARCH CENTER.

This means you can be assured that Ply Gem Premium 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.



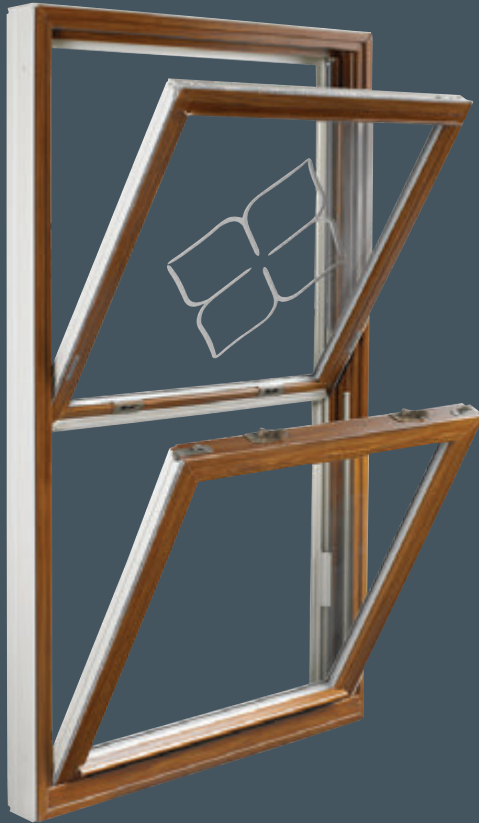
## DOUBLE HUNG WINDOW

**DOUBLE HUNG WINDOWS** remain a favorite for their combination of classic looks and convenient operation. And though these may look like traditional windows, they're the picture of modern window innovation. Available double hung configurations include operating, fixed and factory mullied units.



## FEATURES

- 1 Fully fusion-welded New Generation uPVC vinyl sash and mainframe for extra strength and enduring beauty with SilLock design – featuring a sloped sill to keep windows dry while ensuring a weather-tight seal at sill
- 2 Meeting rails have integral interlock for a weather-tight seal and extra security
- 3 Fin and pile weatherstripping on both sash and mainframe for protection against air, dust and moisture
- 4 7/8" IGU glass systems offer energy-efficient Warm Edge standard and optional Warm Edge+ for improved performance
- 5 Triple weatherstripped check rail and sash ensures long-term performance
- 6 Ventilation limit latches for added security when windows are partially open; optional child safety vent latch available
- 7 Interforce II™ fiberglass reinforcement in the meeting rails for unsurpassed strength and durability with Premium Series Energy Package option
- 8 Two flush-mounted cam-action locks on windows over 25" wide
- 9 Top and bottom lift rail for ease of operation and both sash tilt-in for easy and safe cleaning of the exterior of window
- 10 Equal sight lines for traditional wood window aesthetics
- 11 Premium Series comes standard with the vinyl mainframe filled with patented R-Core® insulation (pre-expanded high-density solid polyurethane), the same type used in many refrigerator/freezer doors; for enhanced performance Premium Series Energy Package options feature the mainframe and sash filled with patented R-Core
- 12 Constant force balance system
- 13 Comes standard with aluminum extruded half screen with fiberglass mesh



A



Flush-mounted cam-action locks

B



Ventilation limit latches

C



Interforce II™ fiberglass-reinforced sash meeting rails

D



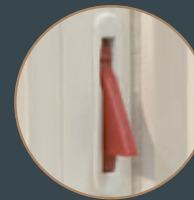
Ergonomically designed tilt-latch for ease of cleaning

E



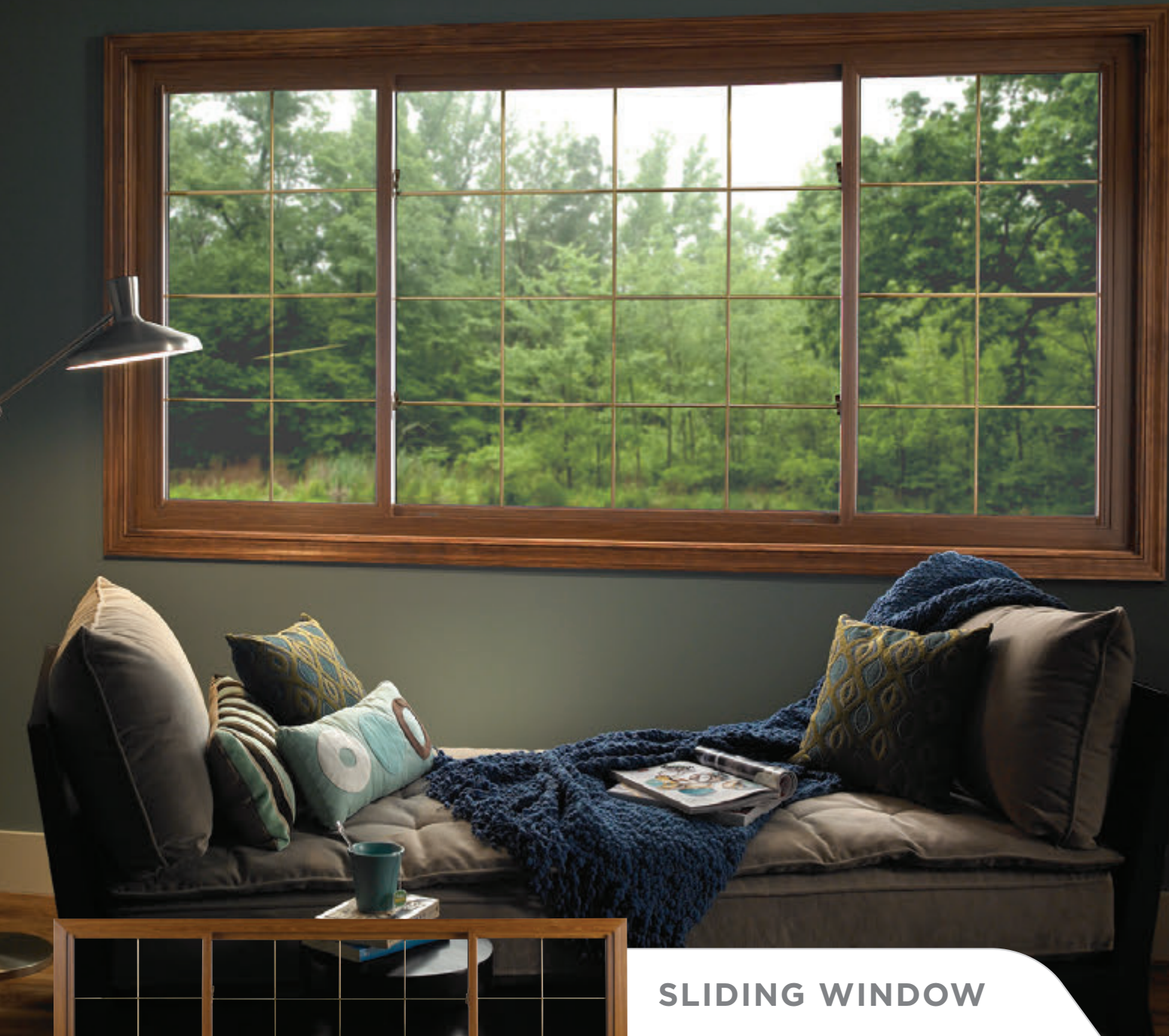
Top and bottom lift rail for ease of operation

F



Optional child safety vent latch

1. Most double hung windows meet a Design Pressure (DP) rating of 50 (with Energy Package Upgrade).



## SLIDING WINDOW

**SLIDING WINDOWS.** Panoramic views meet ultimate convenience. Their undeniable beauty is matched only by their superior thermal performance, letting you enjoy your view ever so comfortably. Available sliding window configurations include two- and three-lite configurations. Three-lite configurations available in  $\frac{1}{4}$ - $\frac{1}{2}$ - $\frac{1}{4}$  lite and  $\frac{1}{3}$ - $\frac{1}{3}$ - $\frac{1}{3}$  equal lite.





## FEATURES

- 1 Premium Series comes standard with the vinyl mainframe filled with patented R-Core® insulation (pre-expanded high-density solid polyurethane), the same type used in many refrigerator/freezer doors; for enhanced performance Premium Series Energy Package options feature the mainframe and sash filled with patented R-Core
- 2 Integral interlock with Interforce II™ reinforces the meeting rails for unsurpassed strength, warmth and durability with Premium Series Energy Package upgrade
- 3 Full-perimeter, high-performance weatherstripping provides maximum energy-efficiency
- 4 7/8" IGU glass systems offer energy-efficient Warm Edge standard and optional Warm Edge+ for improved performance
- 5 Fully fusion-welded New Generation uPVC vinyl sash and mainframe for extra strength and enduring beauty featuring a sloped sill to keep windows dry while ensuring a weather-tight seal at sill
- 6 Ventilation limit latch for added security when windows are partially open; optional child safety latch available



A

Flush-mounted cam-action locks



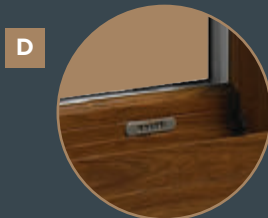
B

Left and right pull rails for ease of operation



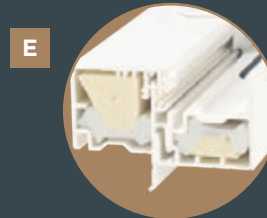
C

Optional child safety vent latch



D

Ventilation limit latches



E

Interforce II™ fiberglass-reinforced sash meeting rails

1. Most sliding windows meet a Design Pressure (DP) rating of 45 (with Energy Package Upgrade).



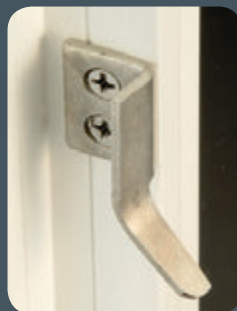
## CASEMENT & AWNING WINDOW

**CASEMENT & AWNING WINDOWS.** Dressing up your home with European flair has never been so rewarding. With a full 90° sweep, these windows give nature a warm welcome in nice weather. But they work even better at giving bad weather the cold shoulder. Configurations include single, triple and quad integral mulled or factory mulled units.

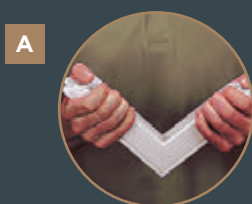


## FEATURES

- 1 Premium Series comes standard with the vinyl mainframe filled with patented R-Core<sup>®</sup> insulation (pre-expanded high-density solid polyurethane), the same type used in many refrigerator/freezer doors; for enhanced performance Premium Series Energy Package options feature the mainframe and sash filled with patented R-Core
- 2 Fusion-welded frames and sash stay strong and in place for a lifetime of dependable performance
- 3 Easy-to-reach multi-point locking system provides increased security with a single conveniently located handle
- 4 Folding/nested operating handle standard
- 5 New Generation uPVC vinyl never needs painting or caulking and resists conducting heat and cold
- 6 Aluminum extruded screens with low profile retention clips
- 7 Upgrade casement windows with the optional Premium Series stainless steel hardware for protection against corrosion in coastal areas; this option includes the operator mechanism arms, sash brackets, hinges, snubbers, tiebars and keepers
- 8 <sup>7</sup>/<sub>8</sub>" IGU glass systems offer energy-efficient Warm Edge standard and optional Warm Edge+ for improved performance



Upgrade casement windows with the optional coastal hardware package.



**A** Fusion-welded strength

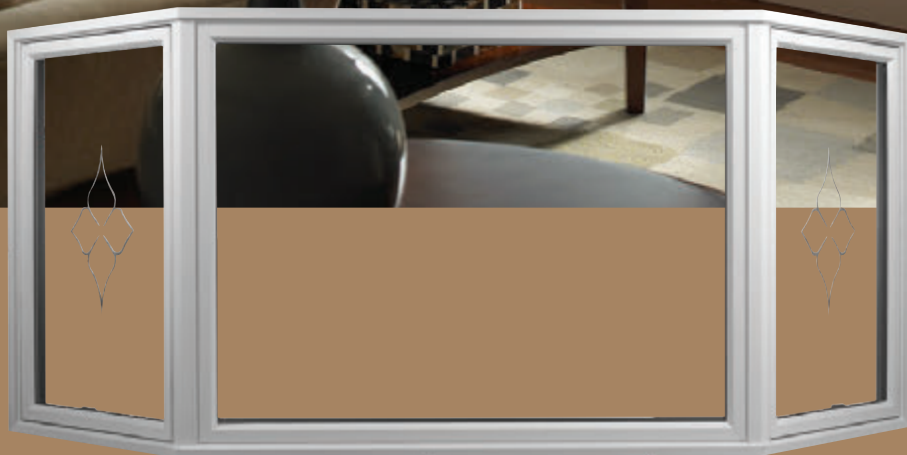


**B** Folding/nested operator handle



**C** Matching lock features a sleek operating design

1. Most awning and operating casement windows meet a Design Pressure (DP) rating of 70 (gateway size of 24" by 60") and most fixed casement windows meet a Design Pressure (DP) rating of 45. 2. Optional.



## BAY & BOW WINDOW

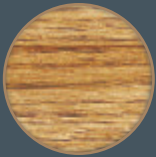
**BAY & BOW WINDOWS.** Custom made with every detail in mind, our bay & bow windows offer an array of designer accessories with endless design options. Bays available in 3- or 4-window, 35° and 45° configurations. Bows available in 3-, 4- or 5-window configurations.



Knee Braces

## Pre-finished or Laminated Interior Options

GOLDEN OAK



NATURAL OAK



COLONIAL CHERRY



## Solid Surface Seat Options



Cameo White



Beach



Sandstone



Dusk



Dark Brown



Black

## FEATURES

- 1 Custom made to ensure a good fit in your home
- 2 Fusion-welded New Generation uPVC vinyl frames and sash for extra strength, dependable performance and enduring beauty
- 3 Available in casement or double hung styles to complement your architectural style or personal preference
- 4 Heavy-duty weatherstripping ensures a tighter seal
- 5 Bays & bows with double hung or casement style window configurations feature R-Core® insulation and Warm Edge or optional Warm Edge+ spacer system to help keep utility costs down
- 6 For bay or bow configurations with casement style windows, multi-point locking system secures the window in several locations simultaneously with a single handle
- 7 Pre-finished interiors are sealed for beauty and durability and available in golden oak, natural oak and colonial cherry
- 8 Laminated interiors available in three woodgrains and two solid colors: golden oak, natural oak, colonial cherry, white and beige



## Support and Insulation Systems

### (2) Cable Kits Standard

#### External Knee Braces

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

<sup>1</sup> Required and included standard with garden window. Knee braces and cable system are required for bay/bow windows and are included with the window.

### Superior Insulated Seats

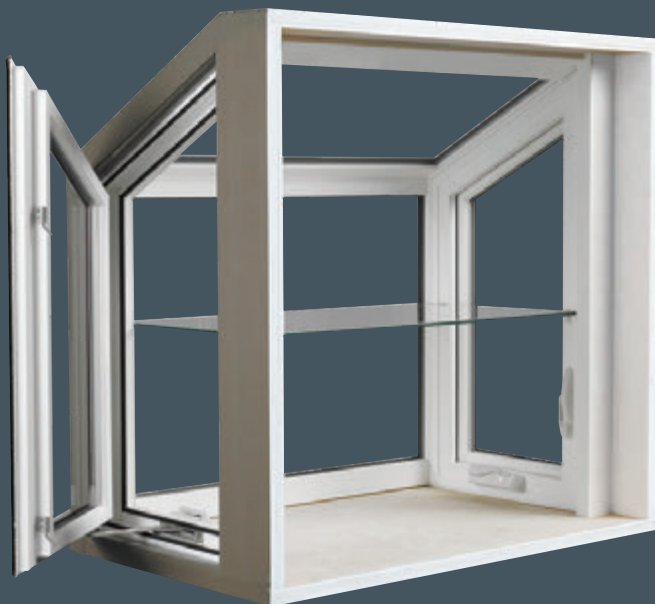
- 1 Insulated with high-density polystyrene insulating board combined with a 3/4" exterior grade plywood surface – 3" overall thickness
- 2 R-Value of 7.6 – six times that of typical non-insulated bay/bow windows
- 3 Available in white or beige (earthtone units are clad with brown coil)





## GARDEN WINDOW

**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.



Knee Braces

## Pre-finished Laminated Seats, Jambs and Heads are Available in White and Beige

WHITE



BEIGE



## Solid Surface Seat Color Options



Cameo White



Beach



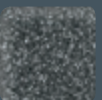
Sandstone



Dusk



Dark Brown



Black

Add custom style to your garden window (available for bays/bows also) by adding a solid surface seat available in six colors

## Support and Insulation Systems

### External Knee Braces

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

### Superior Insulated Seats

- 1 Insulated with high-density polystyrene insulating board combined with a 3/4" exterior grade plywood surface – 3" overall thickness
- 2 R-Value of 7.6 – six times that of typical non-insulated bay/bow windows
- 3 Available in white or beige (earthtone units are clad with brown coil)



## FEATURES

- 1 New Generation uPVC vinyl never needs painting or caulking and resists conducting heat and cold
- 2 Tempered glass interior shelf adds space for plants (standard on units under 50')
- 3 Operating trapezoid casement side panels feature easy-to-operate, easy-to-reach, multi-point locking system
- 4 Fusion-welded frames and sash for extra strength and dependable performance
- 5 Add custom style to your garden window (available for bays/bows also) by adding a solid surface seat available in six colors
- 6 Available in white, beige or earthtone color options on exterior and white on interior
- 7 Sloped top lite is only available with a dual pane insulated glass unit
- 8 7/8" IGU glass systems offer energy-efficient Warm Edge standard and optional Warm Edge+ for improved performance



<sup>1</sup> Required and included standard with garden window. Knee braces and cable system are required for bay/bow windows and are included with the window.



## SLIDING PATIO DOOR

**SLIDING PATIO DOORS** are your home's way of welcoming guests with arms wide open. But when heat, cold, rain, wind or intruders come knocking, this beauty is as tough as nails. Configurations include two and three panel operating units as well as complementary side lites and transoms.







Oversized tandem steel rollers for smooth, effortless operation. Access to adjustment screw for ease of panel alignment through exterior face of panel eliminates unsightly screw caps on the interior and ensures proper operation.

## FEATURES

- 1" IGU glass systems offer energy-efficient Warm Edge standard and optional Warm Edge+ for improved performance
- Custom-fit interlock system provides extra protection against air infiltration for enhanced energy performance
- Our doors glide on oversized tandem steel rollers and provide smooth and effortless operation
- A heavy-duty vinyl sill with a stainless steel roller guide delivers superior strength, resists frost and condensation
- Anti-take-out device in the head of every door makes it virtually impossible to remove the active panel even with the rollers in their lowest adjustment position, providing comfort and peace of mind
- While Ply Gem Replacement Series patio doors come standard with a rugged locking system, for optimum security, choose our optional dual-point lock and/or our optional footbolt lock with vent latch position
- Available on Ply Gem Replacement Series patio doors, optional pet-resistant screen is seven times stronger than standard insect screening and offers excellent outward visibility, is made from vinyl-coated polyester and is not harmful to pets
- Constructed of New Generation uPVC vinyl for enduring beauty with fusion-welded panels for added strength and durability



1. Most 6' sliding doors meet a Design Pressure (DP) rating of 30, and most 8' sliding doors meet a Design Pressure (DP) rating of 25 (with Energy Package Upgrade).

# DOOR OPTIONS

## Optional Solar Blinds or Shades Between the Glass

### Solar Blind Colors:



### Solar Shade Colors:

#### INTERIOR



If you desire the ultimate in solar control then you will fall in love with our Solar Blind and Solar Shade options. Our Solar Blinds are available in Slide action (available in white) or Pull Cord action (available in Gray, White, Gold, Almond or Tan) for lift and tilt operation. Our Solar Shade interior color options are Taupe, Almond, Charcoal, and Gray.



Exterior keyed lock in optional brass (brass is standard on woodgrains and two-tone options)



Interior lock in optional brass (brass is standard on woodgrains and two-tone options)



Optional dual-point lock available with keyed metallic finish handle or with non-keyed standard handle



Multi-position optional footbolt

### Standard



WHITE      BEIGE

### Optional Handle Colors



SATIN CHROME      OIL-RUBBED      CLASSIC BRASS





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



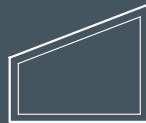
Extended Octagon



Hexagon



Extended Hexagon



Trapezoid Left or Right



Clipped Trapezoid



Pentagon



Pentagon Equilateral



Right Angle Triangle



Isosceles Triangle

## CUSTOMIZE YOUR VIEW

From the road and from within your home, windows tell a story. Every choice adds distinction: from the woodgrain or solid colors that surround each window to the grilles or subtle elegance of Regal V-grooved cut glass. Ultimately, the story of your home is what you see through your eyes.

Premium Windows feature our two-color vinyl extrusion process allowing you design flexibility to match your exterior style with an easy to coordinate white interior.

Now share your Premium Windows with the world.

# COLOR OPTIONS

## GOLDEN OAK WOODGRAIN

INTERIOR



EXTERIOR



WHITE BEIGE EARTHTONE

## COLONIAL CHERRY WOODGRAIN

INTERIOR



EXTERIOR



WHITE BEIGE EARTHTONE

## NATURAL OAK WOODGRAIN

INTERIOR



EXTERIOR



WHITE BEIGE

## WHITE

INTERIOR



EXTERIOR



WHITE BEIGE SANDSTONE EARTHTONE DARK BRONZE

## BEIGE

INTERIOR



EXTERIOR



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 replacement products with available half or full screens. This product provides good outward visibility and ventilation and will not rust, corrode or stain. Additional options available include:

### ALUMINUM MESH

Provides added protection against aggressive regional insects that eat through normal fiberglass mesh. Charcoal finish reduces glare.

### SOLAR BLOCK SCREEN

Blocks 70% of the sun's heat and glare. Keeps living spaces cooler, reduces energy costs and protects furnishings against fading.

### OPTIMAL VIEWING SCREEN

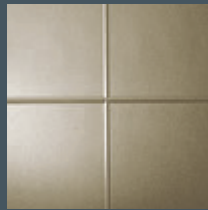
Thinner fiberglass material allows maximum viewing while tighter mesh pattern keeps out tiny insects.

### PET-RESISTANT SCREEN<sup>1</sup>

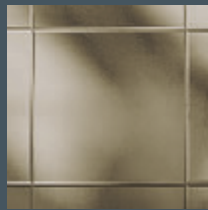
Strong vinyl-coated polyester provides a screen seven times stronger than traditional insect screening with excellent outward visibility.

1. Doors only.

REGAL  
V-GROOVE



Regal Colonial



Regal Perimeter



Regal Florentine

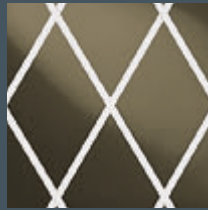


Regal Florentine  
Elongated

GRILLES-BETWEEN-  
THE-GLASS



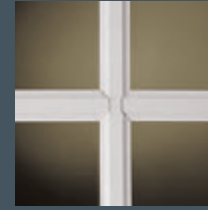
5/8" Flat Colonial



5/8" Flat Diamond



5/8" Flat Perimeter



1/16" or 1" Sculptured  
Colonial



Narrow Brass

CUSTOM DESIGNER WINDOW GLASS

**Brighten your outlook with decorative options.**

How do you make an endearing home absolutely exquisite? Add a spectacular accent, with custom designer glass. Designed and crafted by hand as fine decorative glass has always been, Premium Windows custom designer glass brings invaluable character and distinction to your home.



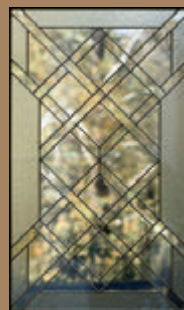
Star-beveled



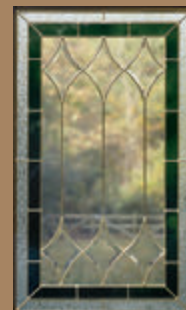
Ceylon



La Parisienne



Charlevoix



Bratenahl



Sheffield

Shown above is a small selection of the Custom Designer Window Glass options available.

**Caming Color Options**



Brass



Pewtertone  
(Patina)



Zinc

# GLASS OPTIONS

- Low-E
- Low-E<sup>SC</sup>
- Low-E2
- Low-E2<sup>SC</sup>
- Low-E2<sup>MAX</sup>\*
- Low-E3<sup>MAX</sup>\*
- HP
- HP<sup>SC</sup>
- HP2
- HP2+
- HP2<sup>MAX</sup>\*
- HP3<sup>MAX</sup>\*
- Tinted
- Double Strength glass
- Obscure
- Glue Chip Obscure
- Tempered
- Laminated  
(security)
- Sound Package  
(off-set glass)

\* See page 6 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 Premium Series glass thickness options and ratings.



Optional Advanced Easy Clean® Glass is a remarkable advancement in glass design that eliminates frequent exterior window cleaning. Windows and doors with special Easy Clean Glass require less effort than windows with ordinary glass.



## 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.

Below is a glossary of our icons that you will see throughout the Ply Gem Windows Replacement 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 Premium Series Replacement windows and patio doors can be ordered in 1/8 inch increments to accommodate any replacement application, providing a perfect fit and minimizing installation time and special trimming requirements.



### DP CERTIFIED

Ply Gem Premium Series Replacement windows are tested to meet the air, water and structure requirements of AAMA/WDMA 101/I.S.2. Our products meet a Design Press (DP) rating of 35 (double hung) to as high as DP70 on our operating casement (gateway size 24" x 60"). With advanced-level engineering and top-notch innovation, you are assured of the most durable, high-performing windows available nationwide.



### INTERFORCE II™

Our Premium windows feature Interforce II™ internal fiberglass reinforced meeting rails for unsurpassed strength and durability.



### WARM EDGE TECHNOLOGY

The Warm Edge glass spacer system within Ply Gem Premium Series Replacement 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.



### WARM EDGE+ TECHNOLOGY

The Warm Edge+ 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.



### R-CORE® INSULATION

The vinyl mainframes of Ply Gem Premium Series windows are filled with patented† R-Core® insulation (pre-expanded high-density solid polyurethane), the same type used in many refrigerator/freezer doors. It prevents voids and settling and results in even distribution of the maximum insulating barrier. Premium Series windows with Energy Package (EP – see page 9 for details) upgrades feature R-Core in both the frame and sash for the ultimate in thermal performance.

†U.S. Patent Number: 4,516,356



### NEW GENERATION VINYL

Wood or metal windows can stick when they swell or deteriorate from corrosion. New Generation Vinyl withstands harsh weather as well as wear and tear better. Ply Gem Premium Series Replacement 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 Premium Series Replacement 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.



### SIL LOCK

Premium double hung windows with SilLock are built with a sloped sill which forces water to drain to the exterior of the window, keeping your windows dry. This unique design also ensures a tight weatherstrip contact at the sill.



### COASTAL HARDWARE

Typical hardware can easily become corroded or damaged when exposed to constant salt in the air. Ply Gem casement windows with optional coastal hardware will consistently stand up to saltwater and other harsh coastal conditions.

## PREMIUM SERIES REPLACEMENT

**PREMIUM SERIES REPLACEMENT** windows are available in double hung, sliding, casement & awning, garden, bay & bow and sliding patio doors. A number of grilles, glass packages and color options as well as designer glass are also available.



Ply Gem, the Ply Gem logo, the "Building Products. Building Success." slogan, Ply Gem Windows and the Ply Gem Windows logo are trademarks of Ply Gem Industries, Inc. R-Core and Advanced Easy Clean are registered trademarks of Ply Gem Windows. ENERGY STAR® is a registered trademark of the U.S. Environmental Protection Agency. ©2018 Ply Gem Industries, Inc.

For more information, call 888-9PLYGEM.

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CLASSIC SERIES



A WHOLE NEW POINT OF VIEW.

E A S T

DOUBLE HUNG, CASEMENT,  
AWNING & SLIDING PATIO DOOR

**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 75 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.**



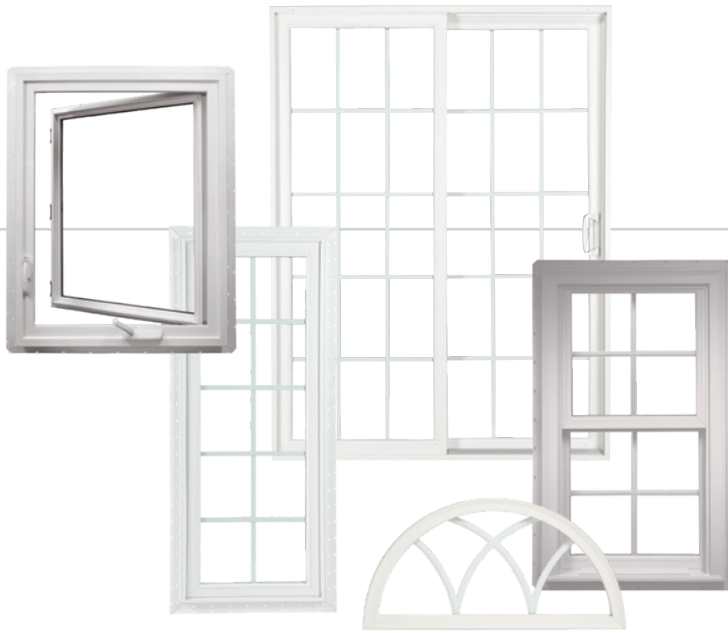


# PRO SERIES

W I N D O W S

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**Uncompromising quality. Superior value.** There's one clear choice when it comes to finding the quality and value you want in windows – Ply Gem Windows Pro Classic Series. Our distinct product offerings provide you with the selection and craftsmanship you need to bring your next project to life. Our windows are designed to meet every need and every budget. Plus, with our service and support you'll be able to get the job done right the first time, every time.



A WHOLE NEW POINT OF VIEW.

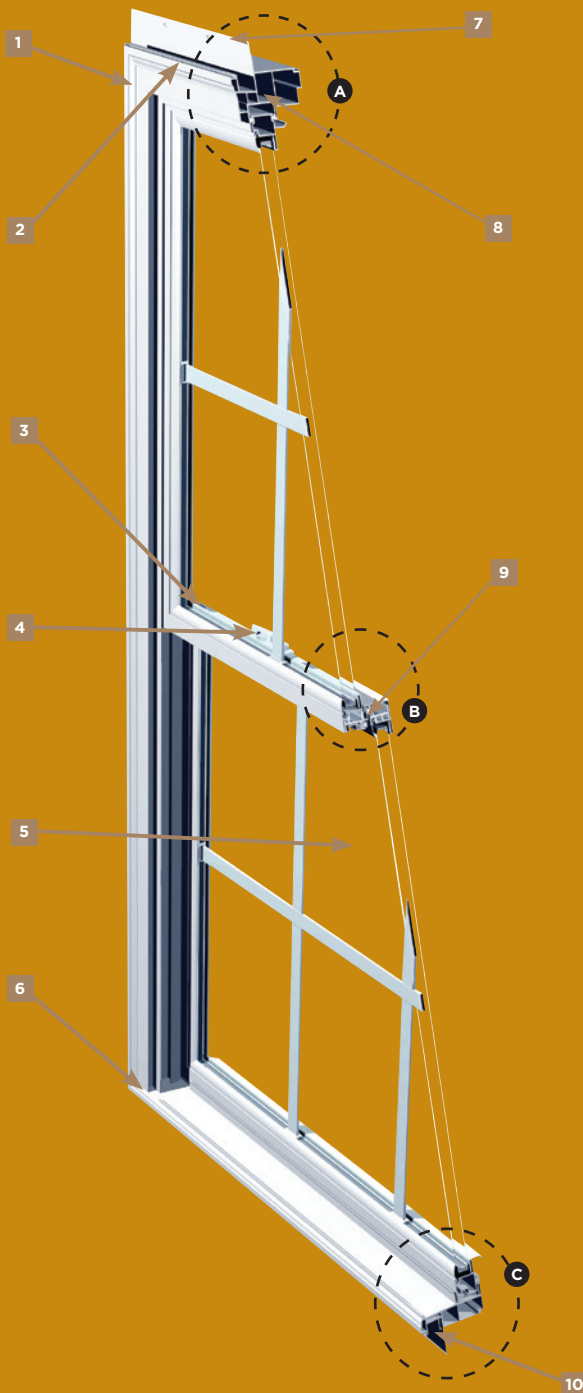


## CLASSIC DOUBLE HUNG

**PRO SERIES CLASSIC DOUBLE HUNG** windows help reflect your own personal style. Constructed with a traditional brickmould or 3/2" flat\* exterior (see page 19), they are available in singles, twins, triples, combinations, 30° and 45° angle bays, fixed and a wide selection of architectural shapes.



ASTM E330  
+/- DP50  
most sizes

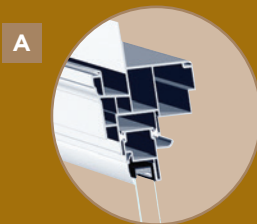


## FEATURES

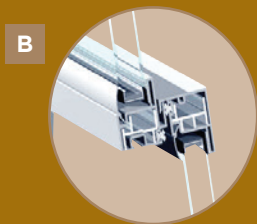
- 1 Classic brickmould profile provides an authentic sculptured appearance that matches traditional exterior millwork
- 2 Interior and exterior accessory grooves allow for easy accessory application
- 3 Both sash tilt in and remove for safe and easy cleaning of exterior glass
- 4 Weather-tight dual action sash lock provides security while sealing out the weather and sealing in your comfort
- 5 3/4" IGU glass systems with energy-efficient Warm Edge (standard) or Warm Edge+ (optional upgrade) available in Low-E or HP glass package options (see page 12 for details)
- 6 Low-profile sill nosing resembles a traditional wood window
- 7 Integral nailing fin with welded corners for simple and accurate installation
- 8 Maintenance-free multi-chamber PVC construction with fusion-welded corners for durability, weather-tight performance and beauty
- 9 Robust interlock satisfies forced entry requirements and improves structural performance
- 10 Integral 1/16" siding pocket with undersill trim leg allows for simple and secure siding installation



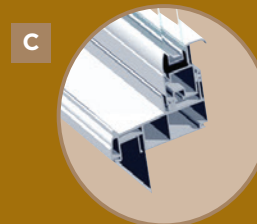
Our Classic vinyl double hung windows are taking quality and value to a whole new level. They come with a convenient tilting sash system that allows for easy cleaning. Integral mullers are available on twin and triple units providing a continuous head and sill for a sleek appearance and enhanced performance.



**A** Maintenance-free multi-chamber PVC construction with fully welded corners for durability and weather-tight performance



**B** Robust interlock satisfies forced entry requirements and improves structural performance



**C** Integral 1/16" siding pocket with undersill trim leg allows for simple and secure siding installation

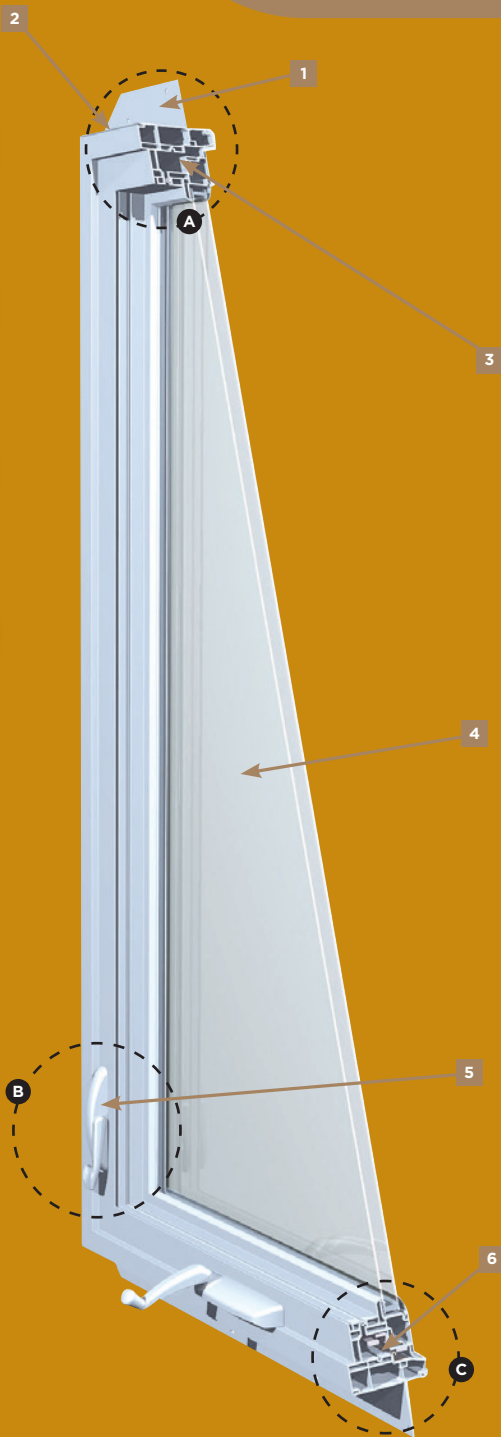


## CLASSIC CASEMENT & AWNING

**PRO SERIES CLASSIC CASEMENT & AWNING** windows are available in singles, twins, triples, side lites, fixed, combinations, 30° and 45° angle bays, 4 and 5 unit bows and a wide variety of architectural shapes.



# CLASSIC CASEMENT & AWNING

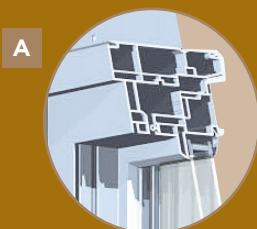


## FEATURES

- 1 Integral nailing fin with welded corners for simple and accurate installation
- 2 Interior and exterior accessory grooves for easy accessory application
- 3 Maintenance-free multi-chamber PVC construction with fusion-welded corners for durability, weather-tight performance and beauty
- 4 3/4" IGU glass systems with energy-efficient Warm Edge (standard) or Warm Edge+ (optional upgrade) available in Low-E or HP glass package options (see page 12 for details)
- 5 Single-handle multi-point locking system so you can easily secure your windows in one operation
- 6 Stainless steel hinge track and lock bar on all standard sizes
- 7 Split-arm gear operator for call sizes up to 3050 and dual-arm gear operator on larger units to ensure smooth operation when opening and closing your windows



Make your view one-of-a-kind with Classic casement & awning windows. They feature a weather-resistant stainless steel hinge track and an adjustable hinge to ensure smooth, precise operation. The sash opens a full 90° to make cleaning easy.



**A** Maintenance-free multi-chamber PVC construction with fully welded corners for durability and weather-tight performance

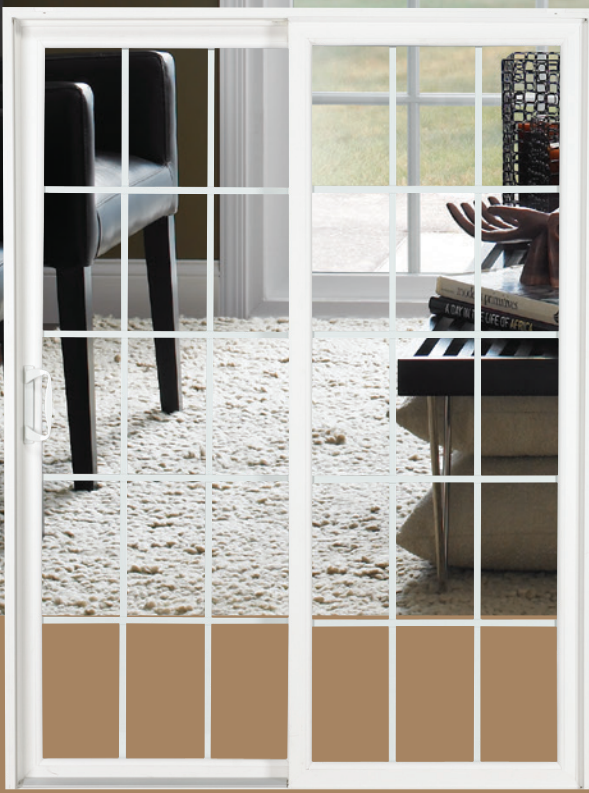


**B** Single-handle multi-point locking system so you can easily secure your windows in one operation



**C** Split-arm gear operator to ensure smooth operation when opening and closing your windows

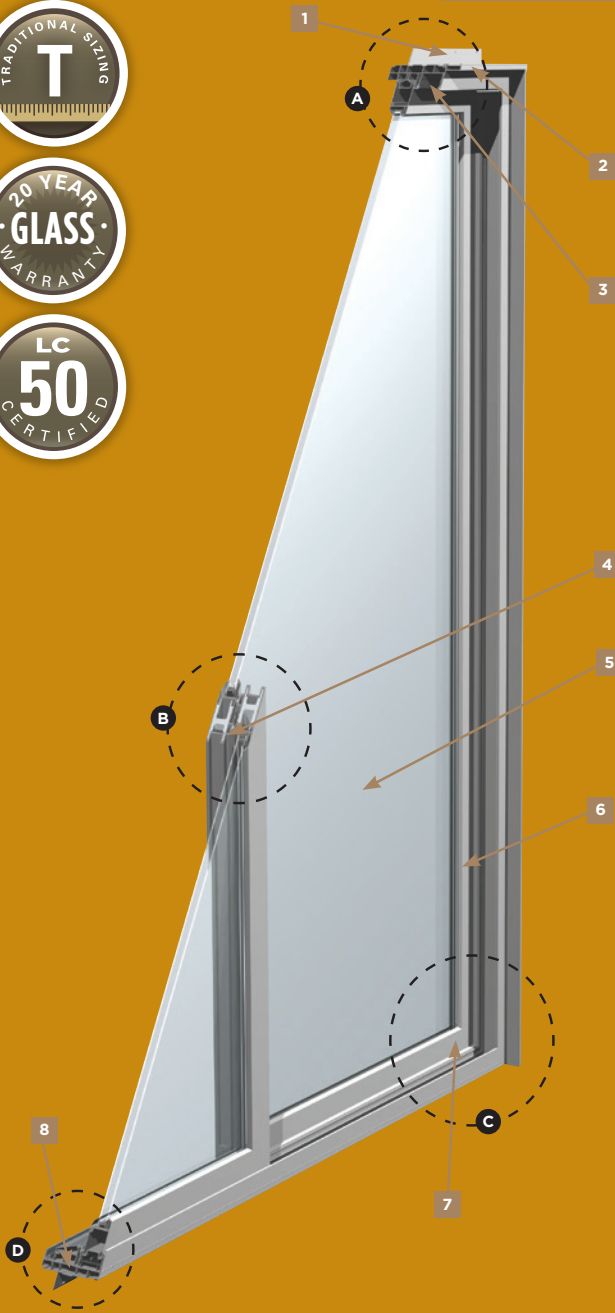
1. Optional Warm Edge+ spacer upgrade for enhanced performance. 2. Optional Low-E glass packages for better performance, see page 12 for details.  
3. Optional HP glass packages combines Low-E with argon gas fill for high performance, see page 12 for details.  
4. Impact Rated units are available in select sizes and configurations, see page 14 for details. 5. Optional coastal hardware available.



## CLASSIC SLIDING PATIO DOOR

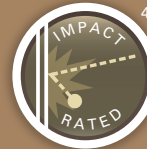
**PRO SERIES CLASSIC SLIDING PATIO DOORS** invite the style in. They are available with matching fixed panels, side lites, transoms and segmented transoms.

# CLASSIC SLIDING PATIO DOOR



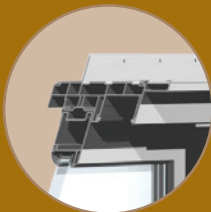
## FEATURES

- 1 Pre-punched nailing fin with fusion-welded corners for simple and accurate installation
- 2 Interior and exterior accessory groove for drywall return, extension jamb and exterior brickmould application
- 3 Maintenance-free multi-chamber PVC construction with fully welded corners for weather-tight performance
- 4 Self-centering interlock satisfies forced entry requirements
- 5 3/4" IGU tempered glass systems with energy-efficient Warm Edge (standard) or Warm Edge+ (optional upgrade) available in Low-E or HP tempered glass package options (see page 12 for details)
- 6 Field reversible panels for simple on-site conversions (8-0 height is not reversible)
- 7 Simple roller adjustment access through end of panel ensures smooth operation
- 8 Aluminum threshold and sill track for enhanced durability



One door opens up all kinds of possibilities. Our Classic sliding patio doors feature a unique design that allows for simple field reversibility before or even after installation. They are constructed with full-perimeter weatherstripping for a tight and consistent seal. Plus, you can pick from a variety of optional features including exterior handles with or without a keyed lock, coastal hardware or an ADA compliance kit for 6-0 wide doors with an ADA handle and ramps, and coastal hardware.

A



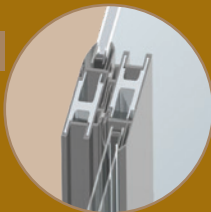
Maintenance-free multi-chamber PVC construction with fully welded corners for weather-tight performance

C



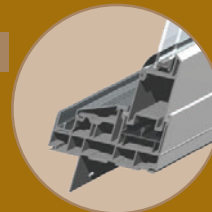
Simple roller adjustment access through end of panel ensures smooth operation

B



Self-centering interlock satisfies forced entry requirements

D



Aluminum threshold and sill track

1. Optional Warm Edge+ spacer upgrade for enhanced performance. 2. Optional Low-E glass packages for better performance, see page 12 for details. 3. Optional HP glass packages combines Low-E with argon gas fill for high performance, see page 12 for details. 4. Impact Rated units are available in select sizes and configurations, see page 14 for details. 5. Optional coastal hardware available. 6. Americans with Disabilities Act (ADA) compliant accessibility upgrade package available.

# 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<sup>®</sup> 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.

Like our other Low-E glass, Ply Gem's *Passive Solar* glass provides superior U-value performance to reduce your electric bill all year round. Passive Solar glass has the added benefit of allowing the sun's energy to help heat your home in the coldest winter months. It is specifically tailored to meet the latest Energy Star qualifications for the Northern Zone.



## 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.

# EXPLANATION OF GLASS PACKAGES



## 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 packages are 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>SC+</sup>** — One lite of solar cooling Low-E and one lite of Interior Surface Low-E

**Low-E<sup>PS</sup>** — One lite of passive solar Low-E glass (surface 3)

**Low-E2<sup>PS</sup>** — One lite of passive solar Low-E and one lite of Interior Surface Low-E

‡ *These glass packages can be combined with capillary tubes to address performance needs in high elevation applications.*



## HIGH PERFORMANCE 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 packages are 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<sup>+</sup>** — One lite of Low-E and one lite of Interior Surface Low-E with argon gas fill

**HP2<sup>SC</sup>** — One lite of Low-E and one lite of Interior Surface Low-E with argon gas fill

**HP<sup>PS</sup>** — One lite of passive solar Low-E glass (surface 3) with argon gas fill

**HP2<sup>PS</sup>** — One lite of passive solar Low-E and one lite of Interior Surface Low-E with argon gas fill

## GLASS OPTIONS

### Tinted Glass

Bronze, Grey or  
Black Spandrel

### Patterned Glass

Obscure

### Tempered

(Standard on  
doors, option  
for windows)

# THERMAL PERFORMANCE DATA

## CASEMENT THERMAL PERFORMANCE

For comparison, these are a few select configurations using 3mm glass within a 3/4" IGU and no grilles	R Value	NFRC CERTIFIED		
		U Factor	SHGC	VT
<b>WARM EDGE SPACER</b>				
LE	3.13	0.32	0.25	0.46
LE <sup>SC</sup>	3.33	0.30	0.19	0.36
LE2+	3.57	0.28	0.24	0.45
LE2+ <sup>SC</sup>	3.57	0.28	0.19	0.35
HP	3.45	0.29	0.25	0.46
HP <sup>SC</sup>	3.57	0.28	0.19	0.36
HP2+	3.85	0.26	0.24	0.45
HP2+ <sup>SC</sup>	4.00	0.25	0.18	0.35
<b>WARM EDGE PLUS SPACER (METAL)</b>				
HP	3.57	0.28	0.25	0.46
HP <sup>SC</sup>	3.70	0.27	0.19	0.36
HP2+	4.00	0.25	0.24	0.45
HP2+ <sup>SC</sup>	4.00	0.25	0.18	0.35

## SLIDING PATIO DOOR THERMAL PERFORMANCE

For comparison, these are a few select configurations using 3mm glass within a 3/4" IGU and no grilles	R Value	NFRC CERTIFIED		
		U Factor	SHGC	VT
<b>WARM EDGE SPACER</b>				
LE	3.03	0.33	0.29	0.55
LE <sup>SC</sup>	3.03	0.33	0.23	0.43
HP	3.33	0.30	0.29	0.55
HP <sup>SC</sup>	3.45	0.29	0.22	0.43
LE2+	3.57	0.28	0.28	0.53
LE2+ <sup>SC</sup>	3.57	0.28	0.22	0.42
HP2+	3.85	0.26	0.28	0.53
HP2+ <sup>SC</sup>	4.00	0.25	0.21	0.42
<b>WARM EDGE PLUS SPACER (METAL)</b>				
HP	3.45	0.29	0.29	0.55
HP <sup>SC</sup>	3.57	0.28	0.22	0.43
HP2+	4.00	0.25	0.28	0.53
HP2+ <sup>SC</sup>	4.00	0.25	0.21	0.42

R VALUE: Restrictive ambient air flow;  
U FACTOR: Rate of heat loss;

SHGC: Solar Heat Gain Coefficient;  
VT: Visible Transmittance

## DOUBLE HUNG THERMAL PERFORMANCE

For comparison, these are a few select configurations using 3mm glass within a 3/4" IGU and no grilles	R Value	NFRC CERTIFIED		
		U Factor	SHGC	VT
<b>WITH WARM EDGE</b>				
LE (Low-E, Air IGU)	2.94	0.34	0.28	0.52
LE <sup>SC</sup> (Solar Cooling Low-E, Air IGU)	2.94	0.34	0.22	0.41
HP (Low-E, Argon IGU)	3.23	0.31	0.28	0.52
HP <sup>PS</sup> (Passive Solar Low-E, Argon IGU)	3.23	0.31	0.44	0.54
HP <sup>SC</sup> (Solar Cooling Low-E, Argon IGU)	3.33	0.30	0.21	0.41
LE2+ (Low-E, Air IGU)	3.45	0.29	0.27	0.51
LE <sup>SC</sup> 2+ (Low-E, Air IGU)	3.45	0.29	0.21	0.40
HP <sup>PS</sup> 2+ (Passive Solar Low-E, Argon IGU)	3.57	0.28	0.43	0.54
HP2+ (Two Lites Low-E, Argon IGU)	3.70	0.27	0.27	0.51
HP <sup>SC</sup> 2+ (Two Lites Low-E, Argon IGU)	3.70	0.27	0.21	0.40
<b>WITH WARM EDGE PLUS SPACER</b>				
HP (Low-E, Argon IGU)	3.33	0.30	0.28	0.52
HP <sup>PS</sup> (Passive Solar Low-E, Argon IGU)	3.33	0.30	0.44	0.54
HP <sup>SC</sup> (Solar Cooling Low-E, Argon IGU)	3.45	0.29	0.21	0.41
HP <sup>PS</sup> 2+ (Passive Solar Low-E, Argon IGU)	3.70	0.27	0.43	0.54
HP2+ (Two Lites Low-E, Argon IGU)	3.85	0.26	0.27	0.51
HP <sup>SC</sup> 2+ (Two Lites Low-E, Argon IGU)	3.85	0.26	0.21	0.40

## AWNING THERMAL PERFORMANCE

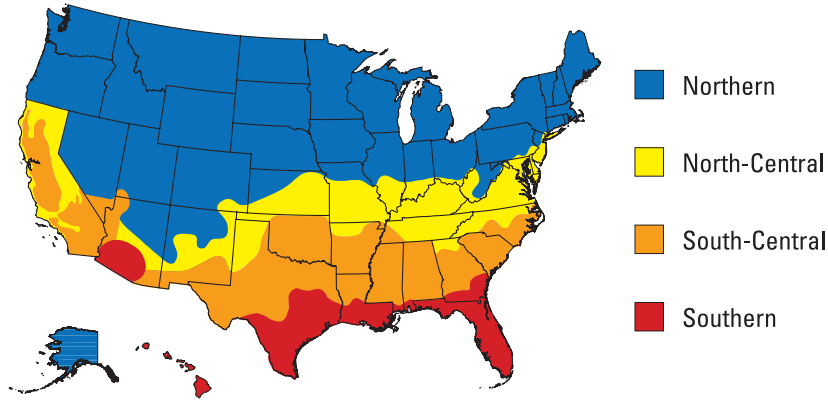
For comparison, these are a few select configurations using 3mm glass within a 3/4" IGU and no grilles	R Value	NFRC CERTIFIED		
		U Factor	SHGC	VT
<b>WITH WARM EDGE</b>				
LE (Low-E, Air IGU)	3.13	0.32	0.25	0.46
LE <sup>SC</sup> (Solar Cooling Low-E, Air IGU)	3.33	0.30	0.19	0.36
LE2+ (Low-E, Air IGU)	3.45	0.29	0.24	0.45
LE2+ <sup>SC</sup> (Low-E, Air IGU)	3.45	0.29	0.19	0.35
HP (Low-E, Argon IGU)	3.45	0.29	0.25	0.46
HP <sup>SC</sup> (Solar Cooling Low-E, Argon IGU)	3.45	0.29	0.19	0.36
HP2+ (Two Lites Low-E, Argon IGU)	3.85	0.26	0.24	0.45
HP2+ <sup>SC</sup> (Two Lites Low-E, Argon IGU)	3.85	0.26	0.18	0.35
<b>WARM EDGE PLUS SPACER (METAL)</b>				
HP (Low-E, Argon IGU)	3.57	0.28	0.25	0.46
HP <sup>SC</sup> (Solar Cooling Low-E, Argon IGU)	3.57	0.28	0.19	0.36
HP2+ (Two Lites Low-E, Argon IGU)	3.85	0.26	0.24	0.45
HP2+ <sup>SC</sup> (Two Lites Low-E, Argon IGU)	4.00	0.25	0.18	0.35

### 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, 3mm glass and no grilles.



## ENERGY STAR® for Windows, Doors, and Skylights CLIMATE ZONE MAP



Ply Gem Pro Classic 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.



**Home Innovation**  
NGBS GREEN CERTIFIED™

**PLY GEM PRO CLASSIC SERIES WINDOWS HAVE BEEN GREEN APPROVED BY THE HOME INNOVATIONS RESEARCH LAB.**

This means you can be assured that Ply Gem Pro Classic Series windows comply with specific green practice criteria in the National Green Building Standard. Visit [www.homeinnovation.com/greenproducts](http://www.homeinnovation.com/greenproducts) for more details.



## CLASSIC VINYL IMPACT WINDOWS & DOORS

- **Casement windows** feature corrosion-resistant coastal hardware and are constructed to meet C-LC50 performance.
- **Sliding patio doors** feature corrosion-resistant coastal hardware and are constructed to meet SGD-LC50 performance.
- **Architectural shape windows** are constructed to meet FW-R60 performance.
- Rated in accordance with the International Residential Codes and meet impact requirements in U.S. Zone 2 (110-120 mph) and Zone 3 (120-140 mph).
- Passes ASTM E1886/1996 Large Missile Impact and Cycling Tests.
- Meets AAMA/WDMA/CSA 101/I.S.2/A440 standard.
- Florida Building Commission Approved - FL 15297.
- Meets wind-borne debris specifications for large missile D (8' missile for Impact Zone 3 at 50 ft/sec).



# COLOR OPTIONS



WHITE



BEIGE



CLAY

Colors shown may not be accurate representations. For color matching, please request color swatches from your Ply Gem sales representative.

# HARDWARE OPTIONS

## PATIO DOOR HANDLES

WHITE



CLASSIC PATIO DOOR HANDLE (Exterior with optional lock)

BEIGE



CLASSIC PATIO DOOR HANDLE (Exterior)

CLAY



CLASSIC PATIO DOOR HANDLE (Exterior)

BRASS



CLASSIC PATIO DOOR HANDLE (Exterior with optional lock)

## HUNG WINDOW SASH LOCKS



CLASSIC SERIES

## CASEMENT & AWNING HANDLES & LOCKS



CLASSIC SERIES

## HARDWARE COLOR OPTIONS



WHITE



BEIGE



CLAY

# GRILLE STYLES



5/8" Sculptured GBG



1" Contoured GBG



5/8" Flat GBG



7/8" Flat GBG



7/8" SDL



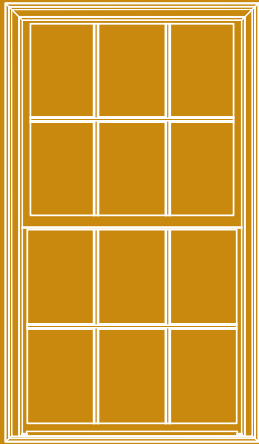
1 1/4" SDL

GBG = Grilles-Between-the-Glass

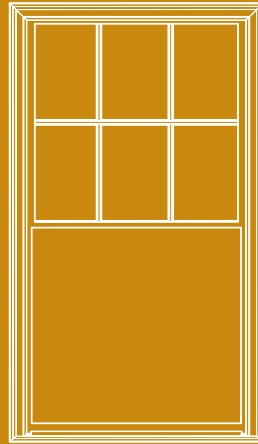
SDL = Simulated Divided Lites



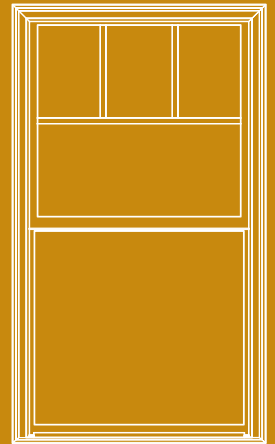
# STANDARD GRILLE PATTERNS



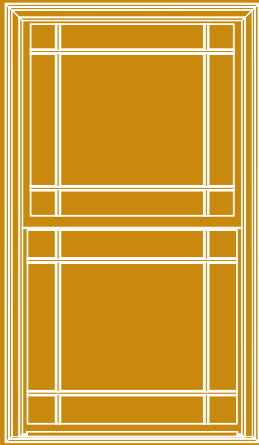
Colonial



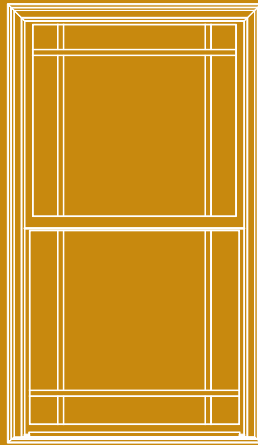
Half Colonial  
(shown on casement)



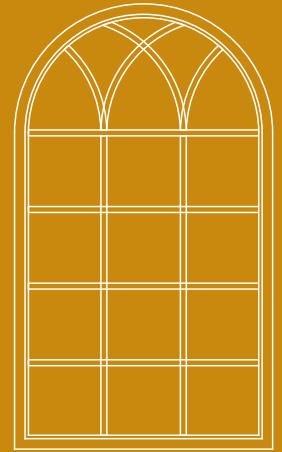
Plaza



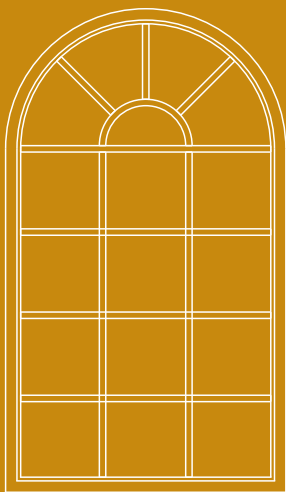
Prairie



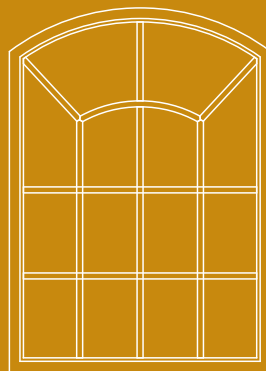
Marginal Prairie



Gothic

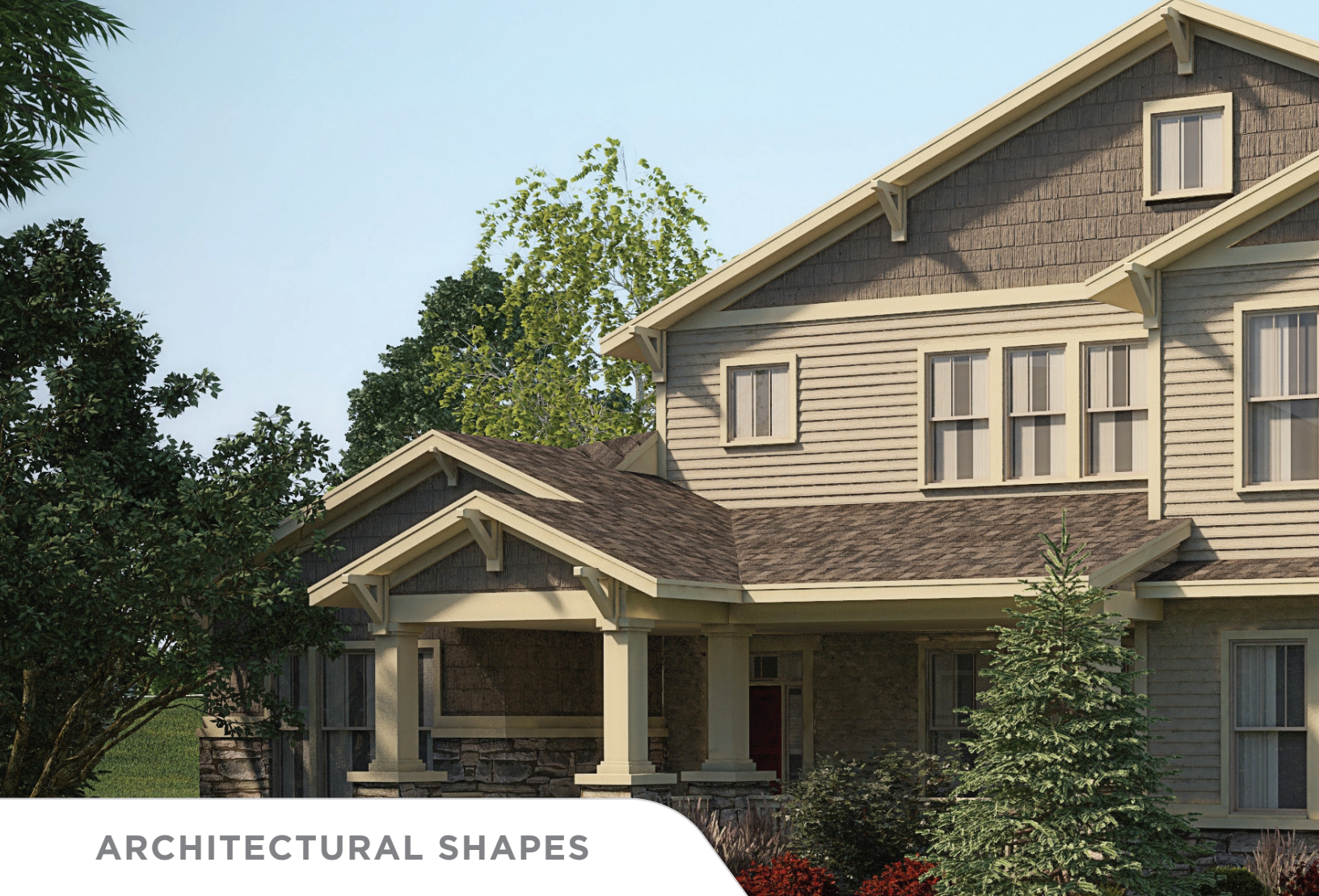


Hub and Spoke



Renaissance

**CALL CUSTOMER  
SERVICE FOR  
OPTIONAL  
GRILLE PATTERNS  
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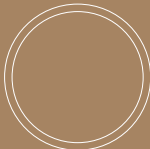
## ARCHITECTURAL SHAPES



Isosceles Triangle



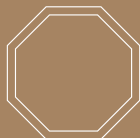
Pentagon



Full Round



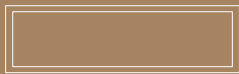
Full Oval



Octagon



Right Angle Triangle



Transom



Eye brow



Clipped Right Angle Triangle



Quarter Round



Half Round



Extended Eye brow Transom



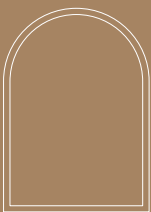
Extended Eye brow Transom



Trapezoid Transom



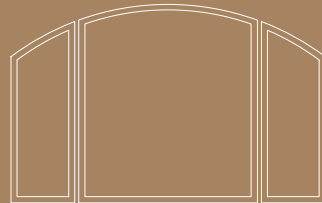
Extended Quarter Round



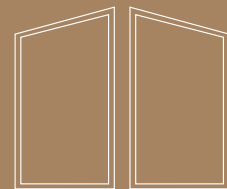
Extended Half Round



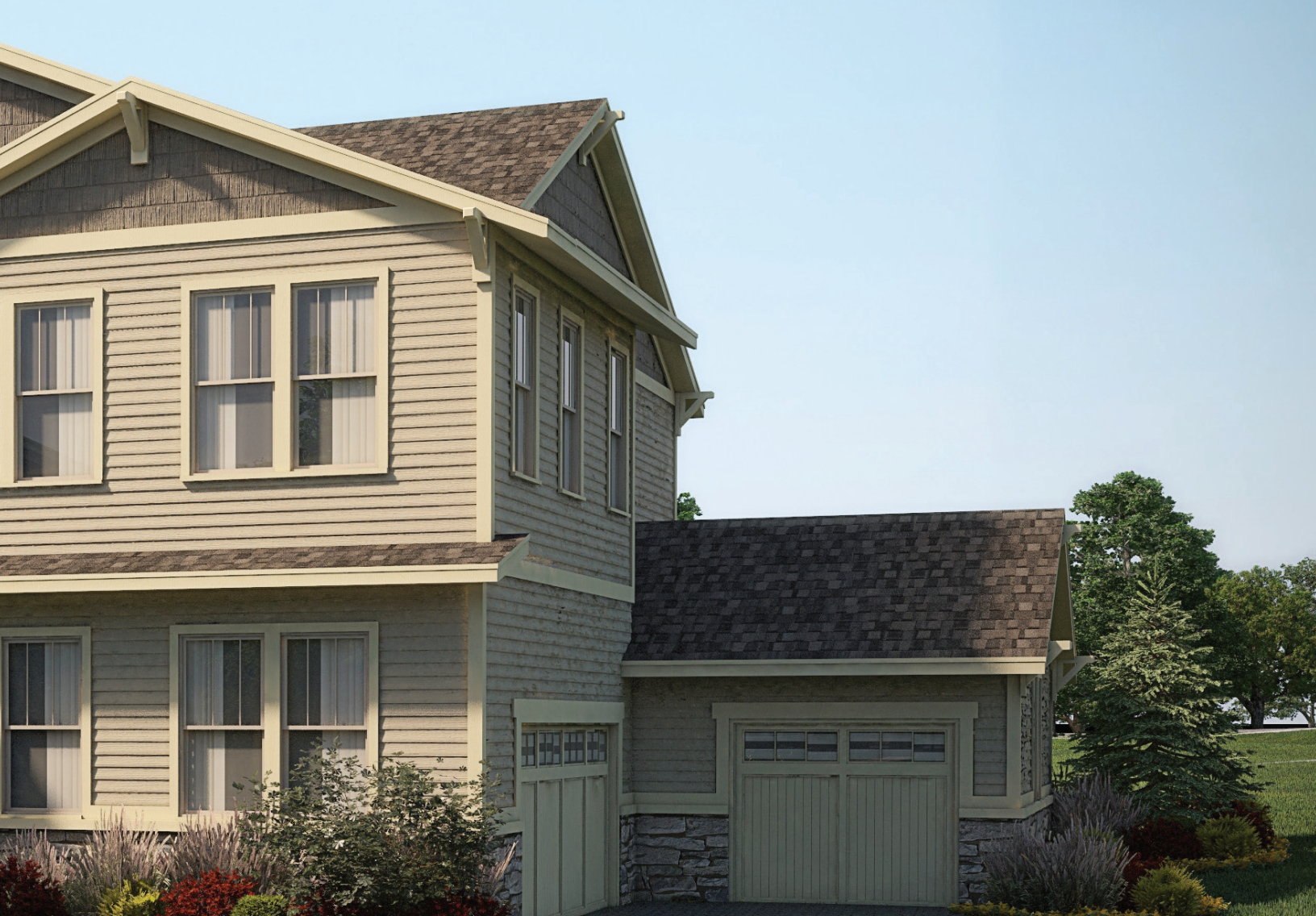
Extended Eye brow



Segmented Extended Eye brow



Trapezoid



## FRAME/CASING OPTIONS

## EXTENSION JAMBS



**BRICKMOULD**



**3 1/2" FLAT\***



**3/4" RECEIVER**  
(For simpler drywall or trim applications)

Brickmould and 3 1/2" flat frame available on double hung windows. Brickmould and 3 1/2" flat\* snap-on casings available for casement and awning windows and sliding patio doors.

### PRO SERIES CLASSIC

Available in natural "clear" wood, primed or cellular PVC in 4 9/16" and 6 9/16" widths; custom widths up to 9 1/8" on windows and doors

## SCREENS

Pro Classic Series screens feature aluminum frames with fiberglass mesh. Screens for double hung, casement and awning windows are full length. Sliding patio door screens are full-length and feature steel rollers for ease of operation.

\*Currently not available on radius or bay units.



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