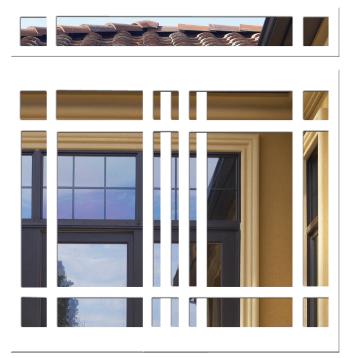


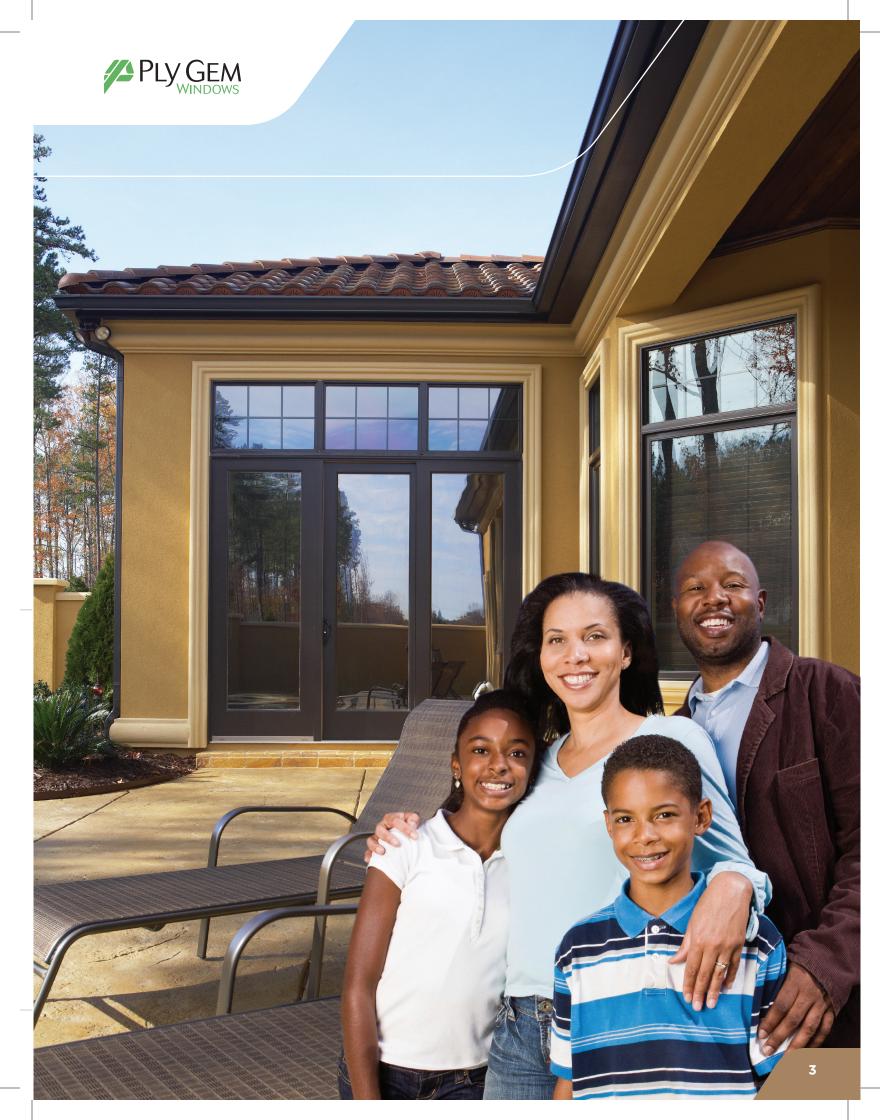
PATIO DOORS



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 the top quality styles and brands across the country. That's why we've taken our entire portfolio of brands, brands you know and trust, and given them one name – Ply Gem Windows. With this one name come 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 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 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.**



PREMIUM SERIES

PATIO DOORS

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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 Windows Mira Premium Series. Designed with exquisite craftsmanship and one-of-a-kind details, Mira Premium can help you bring your unique vision to life. And, because it's a Ply Gem window, you can take comfort in knowing that it's built with energy-efficiency and long-lasting quality in mind.



A WHOLE NEW POINT OF VIEW.

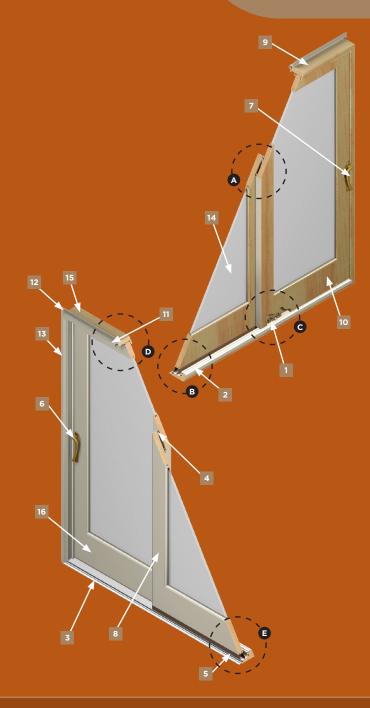


MIRA PREMIUM SERIES FRENCH SLIDING

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





FEATURES

- 1 Stainless steel rollers for smooth operation and longlasting performance
- 2 Durable stainless steel track on interior of the sill for smooth sliding operation
- 3 Aluminum sill deck with wood support to prevent sag and resist dents
- 4 Hollow and foam filled bulb weatherstripping over the full height of the door for reduced air infiltration
- 5 Hollow and foam filled bulb weatherstripping for increased protection against leaks
- 6 Handle set available in bright brass, antique brass, oil rubbed bronze or satin nickel with matching hinge and strike
- 7 2-point locking system
- 8 1¾" panels with wide stiles and rails for a true French look—available in full, ¾ or ½ lite panels
- 9 4⁹/16th or 6⁹/16th jambs made of clear wood eliminate extensive drvwall work
- 10 Select clear wood ready for paint or stain to match any interior décor (also available in pre-finished white)

- 11 Integral face groove allows for easy mulling and exterio accessory application
- **12** Pre-punched nailing fin for simple installation
- 13 AAMA 2604 paint finish provides superior resistance to chalking and fading
- 14 Energy-efficient Warm Edge insulating tempered HP glass reduces energy costs while reducing fabric fading—optional HP^{sc}, HP2+ or HP2+^{sc} glass upgrade and optional Warm Edge+ spacer system upgrade available for enhanced performance
 - Vacuum-treated, solid wood components resist damage from water and fungus
- 16 Durable .050 extruded aluminum cladding on exterior surfaces of frame and .080" on panels resists dings and dents while providing structural integrity



WARM EDGE







1. HP glass combines Low-E with argon gas fill for high performance. 2. Units up to call size 6080 are rated DP50 straight out of the box.





BI-PARTING SLIDING PATIO DOOR

MIRA PREMIUM SERIES BI-PARTING PATIO DOORS open wide to let in your expanding vista. 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.

HINGED PATIO DOOR

MIRA PREMIUM SERIES HINGED PATIO DOORS

elevate elegance and performance to a new level. The historically accurate styling of these doors is designed to let tradition reign. 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.

HINGED PATIO DOOR



FEATURES

- Ball bearing hinges are
- Center mull is integrated into the sill design for higher
- 3 weatherstripping for air-tight performance and smooth operation
- Handle set available in Λ bright brass, antique brass, oil rubbed bronze or satin nickel with matching hinge
- 5 Multi-point lock system
- 1¾" panels with wide stiles and rails for a true French look—available in full, ³4 or ¹⁄₂ lite panels
- **7** $4^{9}/_{16}$ " or $6^{9}/_{16}$ " jambs made of clear wood eliminate extensive drywall work

- **9** Integral face groove allows for easy mulling and exterior accessory application
- **11** AAMA 2604 paint finish provides
- **12** Energy-efficient Warm Edge insulating tempered HP glass reduces energy costs while reducing fabric fading—optional upgrade and optional Warm Edge+ spacer system upgrade
- **13** Vacuum-treated, solid wood components resist damage from water and fungus
- **14** Durable .050 extruded aluminum cladding on exterior surfaces of dings and dents while providing structural integrity





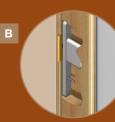






в

Integral face groove allows for easy mulling and exterior accessory application



faceplates





system; multi-point locking hardware with stainless steel

Multi-point lock



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

1. HP glass combines Low-E with argon gas fill for high performance. 2. Units up to call size 6080 are rated DP50 straight out of the box. 3. Available option.

HINGED PATIO DOOR

MIRA PREMIUM SERIES 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 designs needs to create the look that reflects your style and matches your décor.





MIRA PREMIUM SERIES FRENCH OUTSWING

PATIO DOORS provide classic style coupled with unbeatable performance. This high-quality, aluminum-clad wood patio door features ball bearing 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.

FRENCH OUTSWING PATIO DOOR





FEATURES

- 1 Ball bearing hinges are standard for smooth operation
- 2 Locking flush bolts at the head and sill for added security
- **3** Aluminum sill deck to prevent sag and resist dents
- 4 Aluminum astragal with stainable wood interior
- 5 Full-perimeter weatherstripping for air-tight performance and smooth operation
- 6 Handle set available in bright brass, antique brass, oil rubbed bronze or satin nickel with matching hinge and strike—in traditional or contemporary styles
- 7 Multi-point lock system
- 8 1¾" panels with wide stiles and rails for a true French look—available in full, ¾ or ½ lite panels
- 9 4⁹/₁₆" or 6⁹/₁₆" jambs made of clear wood eliminate extensive drywall work

- 10 Select clear wood ready for paint or stain to match any interior décor (also available in pre-finished white)
- **11** Integral face groove allows for easy mulling and exterior accessory application
- **12** Pre-punched nailing fin for simple installation
- 13 AAMA 2604 paint finish provides superior resistance to chalking and fading
- 14 Energy-efficient Warm Edge insulating tempered HP glass reduces energy costs while reducing fabric fading optional HP^{sc}, HP2+ or HP2+^{sc} glass upgrade and optional Warm Edge+ spacer system upgrade available for enhanced performance
- 15 Vacuum-treated, solid wood components resist damage from water and fungus
- 16 Durable .050 extruded aluminum cladding on exterior surfaces of frame and .080" on panels resists dings and dents while providing structural integrity









Integral face Locking flush bolts at the groove allows for head and sill for increased easy mulling and structural performance exterior accessory and security application D Multi-point lock Dual weatherstripping system; multi-point for increased protection locking hardware against leaks with stainless steel faceplates

> 1. HP glass combines Low-E with argon gas fill for high performance. 2. Units up to call size 6080 are rated DP50 straight out of the box. 3. Available option. 4. Impact Rated units are available in select sizes and configurations.

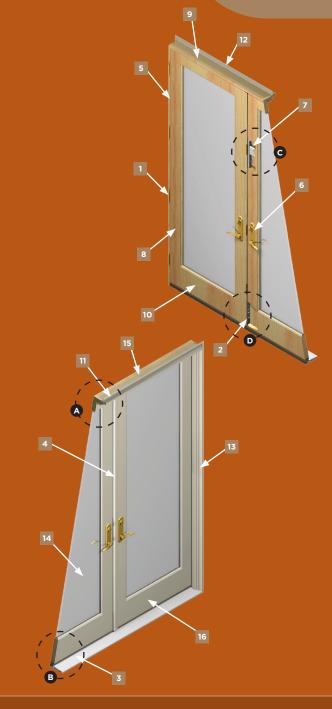
FRENCH INSWING PATIO DOOR

MIRA PREMIUM SERIES FRENCH INSWING PATIO

DOORS provide classic style and unbeatable performance. These doors feature wide stiles and rails coupled with 1¾" door panels to give you a true French look. Ball bearing 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.

FRENCH INSWING PATIO DOOR





FEATURES

- 1 Ball bearing hinges are standard for smooth operation
- 2 Locking flush bolts at the head and sill for added security
- **3** Aluminum sill deck to prevent sag and resist dents
- **4** Aluminum astragal with stainable wood interior
- 5 Full-perimeter weatherstripping for air-tight performance and smooth operation
- 6 Handle set available in bright brass, antique brass, oil rubbed bronze or satin nickel with matching hinge and strike—in traditional or contemporary styles
- 7 Multi-point lock system
- 8 1¾" panels with wide stiles and rails for a true French look—available in full, ¾ or ½ lite panels
- 9 4⁹/16th or 6⁹/16th jambs made of clear wood eliminate extensive drywall work

- **10** Select clear wood ready for paint or stain to match any interior décor (also available in pre-finished white)
- **11** Integral face groove allows for easy mulling and exterior accessory application
- **12** Pre-punched nailing fin for simple installation
- **13** AAMA 2604 paint finish provides superior resistance to chalking and fading
- 14 Energy-efficient Warm Edge insulating tempered HP glass reduces energy costs while reducing fabric fading optional HP^{SC}, HP2+ or HP2+^{SC} glass upgrade and optional Warm Edge+ spacer system upgrade available for enhanced performance
- 15 Vacuum-treated, solid wood components resist damage from water and fungus
- 16 Durable .050 extruded aluminum cladding on exterior surfaces of frame and .080" on panels resists dings and dents while providing structural integrity











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

FRENCH SLIDING PATIO DOOR

		NFRC CERTIFIED		
	R Value	U Factor	SHGC	VT
	WITH WA	RM EDGE		
³ /4" Clear	2.00	0.50	0.46	0.47
³ / ₄ ″ Low-E	2.50	0.40	0.22	0.40
³ / ₄ " Low-E ^{sc}	2.56	0.39	0.17	0.31
³ / ₄ ″ Low-E2+	2.78	0.36	0.22	0.39
³ / ₄ " Low-E2+ ^{sc}	2.78	0.36	0.17	0.31
³ /4" HP Glass	2.70	0.37	0.22	0.40
³ / ₄ " HP ^{sc} Glass	2.70	0.37	0.17	0.31
³ /4" HP2+ Glass	2.94	0.34	0.21	0.39
³ / ₄ " HP2+ ^{sc} Glass	2.94	0.34	0.16	0.31
	WITH WAR	RM EDGE+		
³ / ₄ " Low-E	2.63	0.38	0.22	0.40
³ / ₄ " Low-E ^{sc}	2.63	0.38	0.17	0.31
³ /4″ Low-E2+	2.86	0.35	0.22	0.39
³ / ₄ " Low-E2+ ^{sc}	2.86	0.35	0.17	0.31
³ / ₄ " HP Glass	2.78	0.36	0.22	0.40
³ / ₄ " HP ^{sc} Glass	2.86	0.35	0.17	0.31
³ / ₄ " HP2+ Glass	3.03	0.33	0.21	0.39
³ /4" HP2+ ^{sc} Glass	3.03	0.33	0.16	0.31

HINGED PATIO DOOR				
		NFRC CERTIFIED		
	R Value	U Factor	SHGC	VT
	WITH WA	RM EDGE		
³/₄" Clear	2.27	0.44	0.36	0.37
³ / ₄ ″ Low-E	2.70	0.37	0.17	0.32
³ / ₄ " Low-E ^{sc}	2.78	0.36	0.14	0.25
³ / ₄ " Low-E2+	2.94	0.34	0.17	0.31
³ / ₄ " Low-E2+ ^{sc}	2.94	0.34	0.13	0.24
³ / ₄ " HP Glass	2.86	0.35	0.17	0.32
³ / ₄ " HP ^{sc} Glass	2.94	0.34	0.13	0.25
³ / ₄ " HP2+ Glass	3.13	0.32	0.17	0.31
³ / ₄ " HP2+ ^{sc} Glass	3.13	0.32	0.13	0.24
	WITH WAR	RM EDGE+		
³ /4″ Low-E	2.78	0.36	0.17	0.32
³ / ₄ " Low-E ^{sc}	2.86	0.35	0.14	0.25
³ / ₄ " Low-E2+	3.03	0.33	0.17	0.31
³ / ₄ " Low-E2+ ^{sc}	3.03	0.33	0.13	0.24
³ / ₄ " HP Glass	3.03	0.33	0.17	0.32
³ /4" HP ^{sc} Glass	3.03	0.33	0.13	0.25
³ / ₄ " HP2+ Glass	3.23	0.31	0.17	0.31
³ / ₄ " HP2+ ^{sc} Glass	3.23	0.31	0.13	0.24

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: ¾" IGU, 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.*

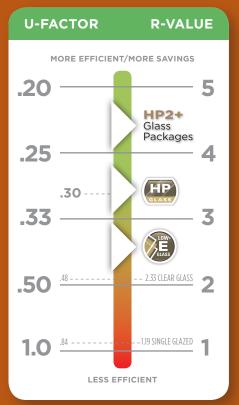
FRENCH INSWING PATIO DOOR					
		NFRC CERTIFIED			
	R Value	U Factor	SHGC	VT	
	WITH WA	RM EDGE			
³/₄" Clear	2.27	0.44	0.36	0.37	
³ /4″ Low-E	2.70	0.37	0.17	0.32	
³ / ₄ " Low-E ^{sc}	2.78	0.36	0.14	0.25	
³ / ₄ " Low-E2+	2.94	0.34	0.17	0.31	
³ / ₄ " Low-E2+ ^{sc}	2.94	0.34	0.13	0.24	
³ / ₄ " HP Glass	2.86	0.35	0.17	0.32	
³ /4" HP ^{sc} Glass	2.94	0.34	0.13	0.25	
³ / ₄ " HP2+ Glass	3.13	0.32	0.17	0.31	
³ / ₄ " HP2+ ^{sc} Glass	3.13	0.32	0.13	0.24	
	WITH WARM EDGE+				
³ /4″ Low-E	2.78	0.36	0.17	0.32	
³ / ₄ " Low-E ^{sc}	2.86	0.35	0.14	0.25	
³ / ₄ " Low-E2+	3.03	0.33	0.17	0.31	
³ / ₄ " Low-E2+ ^{sc}	3.03	0.33	0.13	0.24	
³ / ₄ " HP Glass	3.03	0.33	0.17	0.32	
³ / ₄ " HP ^{sc} Glass	3.03	0.33	0.13	0.25	
³ /4" HP2+ Glass	3.23	0.31	0.17	0.31	
³ / ₄ " HP2+ ^{sc} Glass	3.23	0.31	0.13	0.24	

FRENCH OUTSWING PATIO DOOR					
		NFRC CERTIFIED			
	R Value	U Factor	SHGC	VT	
	WITH WA	RM EDGE			
³/₄" Clear	2.33	0.43	0.36	0.37	
³ / ₄ " Low-E	2.86	0.35	0.17	0.32	
³ / ₄ " Low-E ^{sc}	2.86	0.35	0.14	0.25	
³ / ₄ " Low-E2+	3.13	0.32	0.17	0.31	
³ / ₄ " Low-E2+ ^{sc}	3.13	0.32	0.13	0.24	
	3.03	0.33	0.17	0.32	
³ / ₄ " HP ^{sc} Glass	3.03	0.33	0.13	0.25	
³ /4" HP2+ Glass	3.23	0.31	0.17	0.31	
³ /4" HP2+ ^{sc} Glass	3.23	0.31	0.13	0.24	
	WITH WARM EDGE+				
³ / ₄ ″ Low-E	2.94	0.34	0.17	0.32	
³ / ₄ ″ Low-E ^{sc}	2.94	0.34	0.14	0.25	
³ / ₄ " Low-E2+	3.23	0.31	0.17	0.31	
³ / ₄ " Low-E2+ ^{sc}	3.23	0.31	0.13	0.24	
³ / ₄ " HP Glass	3.13	0.32	0.17	0.32	
³ / ₄ " HP ^{sc} Glass	3.13	0.32	0.13	0.25	
³ / ₄ " HP2+ Glass	3.33	0.30	0.17	0.31	
³ / ₄ " HP2+ ^{sc} Glass	3.33	0.30	0.13	0.24	

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

NFRC THERMAL PERFORMANCE DATA

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.



LOW-E GLASS PACKAGES

Our Low-E glass packages combine Low-E and Warm Edge spacer options, providing insulating glass options to meet your specific

needs. Our Low-E glass packages provide better performance in regions with hot summers and cold winters. Our Low-E^{sc} (solar cooling) glass 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** One lite of Low-E.
- $Low-E^{sc}$ One lite of solar cooling Low-E.
- $Low-E2^{\ddagger}$ One lite of Low-E and one lite of Interior Surface Low-E.
- Low-E2^{sc‡} One lite of solar cooling Low-E and one lite of Interior Surface Low-E

t 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. 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^{sc} – 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+^{sc} — One lite of solar cooling optimized Low-E and one lite of Interior Surface Low-E with argon gas fill.



WHAT IS LOW-E?

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

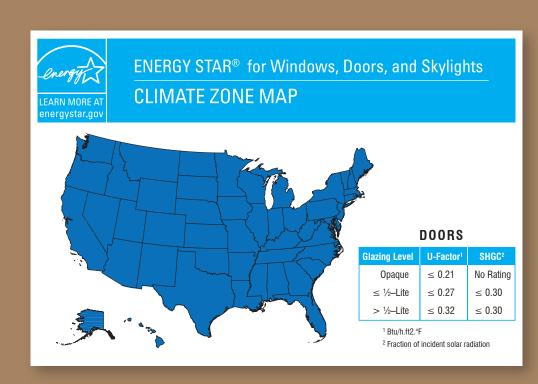
Our Interior Surface Low-E is engineered to have the characteristic window manufacturers and homeowners need most — lower U-Factor — and is applied to the surface of the glass you can touch inside your home, providing increased comfort and improved energy savings. One major benefit is a decrease in U-Factor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



NATURAL LIGHT WITHOUT THE GLARE.

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

ENERGY STAR®



Ply Gem Mira Premium Series patio doors can be configured to meet ENERGY STAR 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.





PLY GEM MIRA PREMIUM SERIES DOORS HAVE BEEN GREEN APPROVED BY THE NAHB RESEARCH CENTER.

This means you can be assured that Ply Gem Mira Premium Series doors comply with specific green practice criteria in the National Green Building Standard. Visit www.GreenApprovedProducts.com for more details.



GLASS OPTIONS

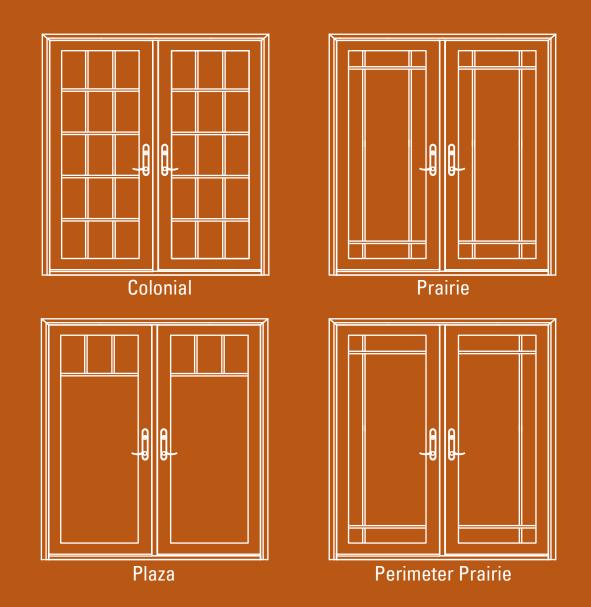
- Low-E
- Low-E^{sc}
- Low-E2+
- HP • HP^{sc}
- HP2+
- Low-E2+^{SC}
- HP2+^{sc}
- Tinted
- Obscure
- Tempered*
- Laminated
- Sound Package

* Tempered glass is standard on sliding patio doors.

NOTE: Low-E glass packages available to address high altitude aplications. See page 19 for explanation of glass packages. Contact your Ply Gem Windows sales representative for a full list of Mira Premium glass thickness options and ratings.

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.



GRILLE STYLES

















5/8" Flat GBG

7/8" Flat GBG

5/8" Sculptured GBG

1" Contoured GBG

7⁄8" SDL

11/4" SDL



7/8" Full Surround **Removable Grilles**

GBG = Grilles-Between-the-Glass

SDL = Simulated-Divided-Light

EXTERIOR CASING OPTIONS



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

EXTENSION JAMBS

Available in primed or natural "clear" wood custom from $4^{9}/_{16}$ " to $8^{9}/_{16}$ " for windows. Consult a Ply Gem sales representative about the details and your specific requirements.



EXTERIOR COLOR OPTIONS



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

HARDWARE & FINISH OPTIONS*



T





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).
- French outswing patio doors feature corrosion-resistant coastal hardware in bright brass or satin nickel fininshes and are constructed to meet DP50 performance.



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For more information, call 888-9PLYGEM.



SHU#