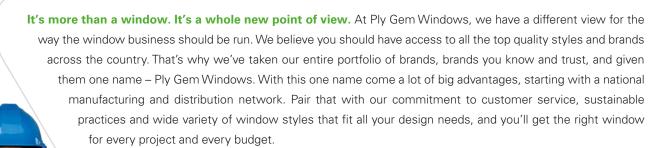




PATIO DOORS





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 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.







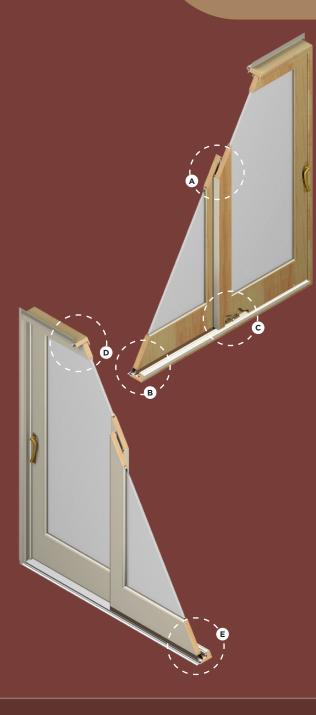
Not all patio doors are created equal. Doors are a reflection of style and a reflection of luxury. Make the best possible statement with Ply Gem Windows MIRA Clad Wood Series. Designed with exquisite craftsmanship and one-of-a-kind details, MIRA can help you bring your unique vision to life. And, because 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.





FRENCH SLIDING PATIO DOOR

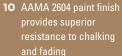




STANDARD FEATURES

- 1 Stainless steel rollers for smooth operation and longlasting performance
- 2 Aluminum sill deck in medium bronze with durable stainless steel track on interior of sill for smooth sliding operation
- 3 Dual finseal weatherstripping over the full height of the door and ½" tall finseal weatherstripping for increased protection against leaks for reduced air infiltration
- 4 2-point locking system
- 5 1¾" panels with wide stiles and rails for a true French look
- 6 49/16" or 69/16" jambs made of clear wood eliminate extensive drywall work
- 7 Select clear wood ready for paint or stain to match any interior décor

- 8 Integral face groove allows for easy mulling and exterior accessory application
- 9 Pre-punched nailing fin for simple installation









12 Vacuum-treated, solid wood components resist damage from water and fungus



13 Durable .050 extruded aluminum cladding on exterior surfaces of frame and .080" on panels resists dings and dents while providing structural integrity



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







HINGED PATIO DOOR





STANDARD FEATURES

- Adjustable hinges standard for smooth operation. Flat hinges optional.
- 2 Center mull is integrated into the sill design for higher structural performance
- 3 Full-perimeter weatherstripping for air-tight performance and smooth operation
- 4 Multi-point lock system
- 5 1¾" panels with wide stiles and rails for a true French look
- 6 49/16" or 69/16" jambs made of clear wood eliminate extensive drywall work
- 7 Select clear wood ready for paint or stain to match any interior décor
- 8 Integral face groove allows for easy mulling and exterior accessory application

- **9** Pre-punched nailing fin for simple installation
- 10 AAMA 2604 paint finish provides superior resistance to chalking and fading
- 11 Energy-efficient Warm Edge insulating tempered HP glass reduces energy costs while reducing fabric fading
- 12 Vacuum-treated, solid wood components resist damage from water and fungus
- 13 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













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





STANDARD FEATURES

- Adjustable hinges standard for smooth operation. Ball Bearing flat hinges optional
- 2 Handle activated shoot bolts at 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 Multi-point lock system
- 7 1¾" panels with wide stiles and rails for a true French look
- 8 49/16" or 69/16" jambs made of clear wood eliminate extensive drawall work
- 9 Select clear wood ready for paint or stain to match any interior décor

- 10 Integral face groove allows for easy mulling and exterior accessory application
- **11** Pre-punched nailing fin for simple installation
- 12 AAMA 2604 paint finish provides superior resistance to chalking and fading
- 13 Energy-efficient Warm Edge insulating tempered HP glass reduces energy costs while reducing fabric fading
- 14 Vacuum-treated, solid wood components resist damage from water and fungus
- 15 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















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

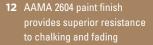


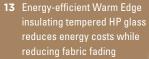


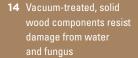
STANDARD FEATURES

- 1 Adjustable hinges are standard for smooth operation
- 2 Handle activated shoot 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 Multi-point lock system
- 7 1¾" panels with wide stiles and rails for a true French look
- 8 49/16" or 69/16" jambs made of clear wood eliminate extensive drywall work
- paint or stain to match and interior décor

- 10 Integral face groove allows for easy mulling and exterior accessory application
- **11** Pre-punched nailing fin for simple installation







15 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













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 WARM EDGE					
⅓″ IGU HP	2.70	0.37	0.22	0.40	
7∕8″ IGU HPsc	2.70	0.37	0.17	0.31	
7∕8″ IGU HP 2+	2.94	0.34	0.21	0.39	
⅓″ IGU HPsc 2+	2.94	0.34	0.17	0.31	
1" IGU HP2MAX	3.23	0.31	0.19	0.31	
1" IGU HP2MAXsc	3.23	0.31	0.14	0.19	
1" IGU HP3MAX	3.33	0.30	0.17	0.30	
1" IGU HP3MAX ^{sc}	3.33	0.30	0.12	0.19	
¾" HP2+sc Glass	2.94	0.34	0.16	0.31	
WITH WARM EDGE+					
⅓″ IGU HP	2.78	0.36	0.22	0.40	
7∕8″ IGU HP ^{sc}	2.86	0.35	0.17	0.31	
7⁄8″ IGU HP 2+	3.03	0.33	0.21	0.39	
%" IGU HPsc 2⁺	3.03	0.33	0.17	0.31	
1" IGU HP2MAX	3.33	0.30	0.19	0.31	
1" IGU HP2MAX ^{sc}	3.33	0.30	0.14	0.19	
1" IGU HP3MAX	3.45	0.29	0.17	0.30	
1" IGU HP3MAX ^{sc}	3.45	0.29	0.12	0.19	

IN-SWING PATIO DOORS						
		NFRC CERTIFIED				
	R Value	U Factor	SHGC	VT		
WITH WARM EDGE						
⅓″ IGU HP	2.86	0.35	0.17	0.32		
7∕8″ IGU HPsc	2.94	0.34	0.13	0.25		
7⁄8" IGU HP 2+	3.13	0.32	0.17	0.31		
⅓" IGU HP ^{sc} 2+	3.13	0.32	0.13	0.24		
1" IGU HP2MAX	3.33	0.30	0.15	0.24		
1" IGU HP2MAX ^{sc}	3.33	0.30	0.11	0.15		
1" IGU HP3MAX	3.45	0.29	0.14	0.24		
1" IGU HP3MAX ^{sc}	3.45	0.29	0.10	0.15		
¾" HP2+sc Glass	3.13	0.32	0.13	0.24		
	WITH WARM EDGE+					
⅓" IGU HP	3.03	0.33	0.17	0.32		
7∕8″ IGU HPsc	3.03	0.33	0.13	0.25		
7⁄8" IGU HP 2+	3.23	0.31	0.17	0.31		
⅓" IGU HP ^{sc} 2+	3.23	0.31	0.13	0.24		
1" IGU HP2MAX	3.45	0.29	0.15	0.24		
1" IGU HP2MAX ^{sc}	3.45	0.29	0.11	0.15		
1" IGU HP3MAX	3.57	0.28	0.13	0.24		
1" IGU HP3MAX ^{sc}	3.57	0.28	0.10	0.15		

OUT-SWING PATIO DOOR					
		NFRC CERTIFIED			
	R Value	U Factor	SHGC	VT	
WITH WARM EDGE					
⅓″ IGU HP	3.03	0.33	0.17	0.32	
⅓″ IGU HPsc	3.03	0.33	0.13	0.25	
%″ IGU HP 2+	3.23	0.31	0.17	0.31	
⅓″ IGU HPsc 2+	3.23	0.31	0.13	0.24	
1" IGU HP2MAX	3.57	0.28	0.15	0.24	
1" IGU HP2MAXsc	3.57	0.28	0.11	0.15	
1" IGU HP3MAX	3.70	0.27	0.17	0.24	
1" IGU HP3MAXsc	3.70	0.27	0.10	0.15	
¾" HP2+sc Glass	3.23	0.31	0.13	0.24	
WITH WARM EDGE+					
%" IGU HP	3.13	0.32	0.17	0.32	
7∕8″ IGU HP ^{sc}	3.13	0.32	0.13	0.25	
7⁄8" IGU HP 2+	3.33	0.30	0.17	0.25	
⅓″ IGU HP ^{sc} 2+	3.33	0.30	0.13	0.24	
1" IGU HP2MAX	3.70	0.27	0.15	0.24	
1" IGU HP2MAX ^{sc}	3.70	0.27	0.11	0.15	
1" IGU HP3MAX	3.85	0.26	0.13	0.23	
1" IGU HP3MAX ^{sc}	3.85	0.26	0.10	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: ½" 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.

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

NFRC THERMAL PERFORMANCE DATA

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-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^{sc} — 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.

 $\textbf{Low-E2+}^{\text{sc}} \leftarrow \text{Dual-pane with one lite of solar cooling Low-E and one lite of Interior}$

Surface Low-EPS — Dual-Pane with one lite of Passive Solar Low-E

Low-E2+PS — Dual-Pane with one lite of Passive Solar Low-E and one lite of Interior Surface Low-E

(HP)

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-Esc 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

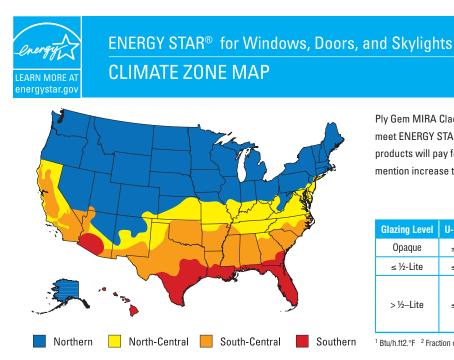


ENERGY STAR® zone requirements. The neutral color with low haze and ultra-smooth surface of our Interior Surface Low-E provides a clearer view of the outdoors and can be cleaned with common household glass cleaners. No special instructions. Our Interior Surface Low-E is durable and scratch-resistant.

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 Clad Wood 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

DOORS

mention increase the comfort level inside your home.

Glazing Level	U-Factor ¹	SHGC ²	
Opaque	≤ 0.17	No Rating	
≤ ½-Lite	≤ 0.25	≤ 0.25	
> ½Lite	≤ 0.30	Northern North-Central	≤ 0.40
		Southern South-Central	≤ 0.25





¹ Btu/h.ft2.°F ² Fraction of incident solar radiation



PLY GEM MIRA CLAD WOOD SERIES DOORS HAVE BEEN GREEN APPROVED BY THE HOME INNOVATIONS RESEARCH LAB.

This means you can be assured that Ply Gem MIRA Clad Wood Series doors comply with specific green practice criteria in the National Green



GLASS OPTIONS

- Low-E
- Low-E^{SC}
- Low-E2+
- Low-E2+SC
- HP
- HP^{SC}
- HP2+
- HP2+SC
- HP2MAX
- HP2MAX^{SC}
- HP3MAX
- HP3MAX^{SC}
- Tinted
- Obscure
- Tempered*
- Laminated (security)
- Sound Package (laminated)

NOTE: Low-E glass packages available to address high altitude applications. 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.

^{*} Tempered glass is standard on patio doors.

STANDARD GRILLE PATTERNS



Call customer service for optional grille patterns (800.999.8400)

GRILLE STYLES & EXTERIOR CASING OPTIONS



 $\mathsf{GBG} = \mathsf{Grilles}\text{-}\mathsf{Between}\text{-}\mathsf{the}\text{-}\mathsf{Glass}$

 ${\sf SDL} = {\sf Simulated\text{-}Divided\text{-}Light}$



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



StandardCollection

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





SignatureCollection

From subtle shades to vibrant hues, Signature colors offer a full spectrum of fresh choices. *Choose from 27 colors.*





Radiance Collection

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



GE⁻

CustomOptions

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.

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





*French outswing impact patio door handles feature PVD (coastal) finishes and are only available in traditional style, and in bright brass and satin nicked.

STANDARD SHAPES





- 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, satin nickel, or oil-rubbed bronze finishes and are constructed to meet DP50 performance.



















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For more information, call 888-9PLYGEM.

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