Ply Gem® WINDOWS & DOORS

MIRA®

WINDOWS & PATIO DOORS



Ply Gem®
WINDOWS & DOORS

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.




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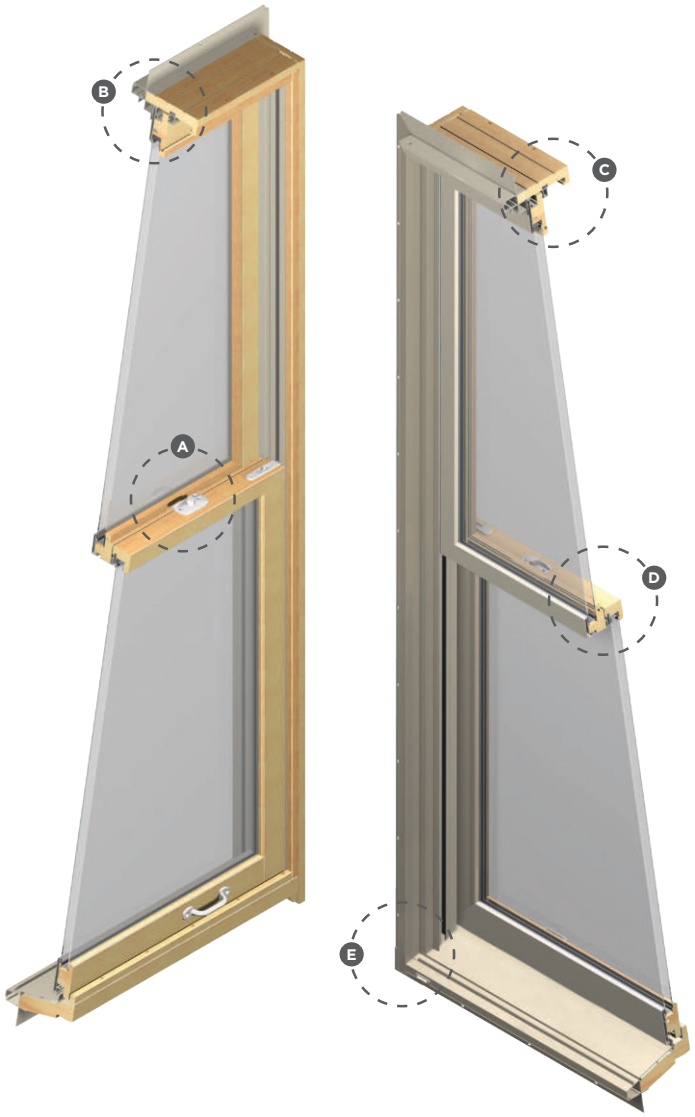
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DOUBLE HUNG

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.

DOUBLE HUNG



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 9⁄16″ 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^{SC}, HP2+, HP2+^{SC}, HP^{PS} or HP2+^{PS}
- 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

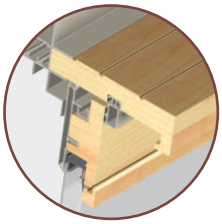
1. HP glass combines Low-E with argon gas fill for high performance.
2. Impact Rated units are available in select sizes and configurations.

A



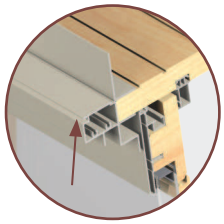
Flush-mounted tilt latches and lock and keeper with matching finish fasteners create a clean, high-quality appearance

B



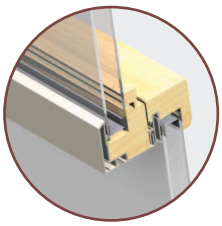
One-piece, full 4 9⁄16″ head and side jambs with inside stop blind nailed to reduce the number of visible nail holes

C



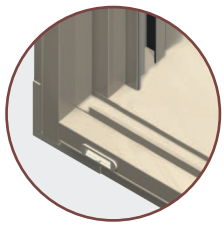
Accessory grooves for mulling and casing application, screen pocket in head and sill for spring-loaded screen

D



Aluminum sash interlock provides superior structural performance

E



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.

CASEMENT & AWNING

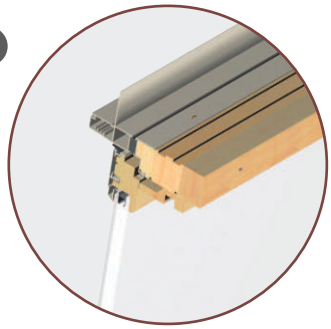


STANDARD FEATURES

- 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 9/16" 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 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.

A



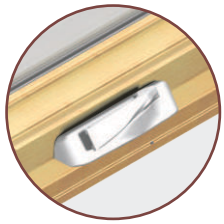
6/4 overall sash width for historical wood look, while recessed sash provides resistance to water infiltration

B



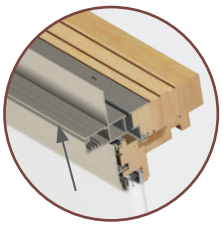
One lever lock with multi-point keeper system for a secure, weather-tight seal

C



Sleek fold-down crank handle

D



Accessory grooves for mulling and casing application

E



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.

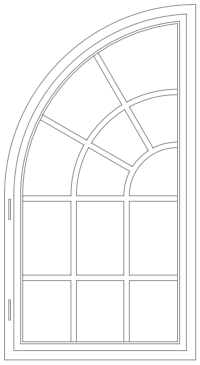
CASEMENT OPERATING SHAPES



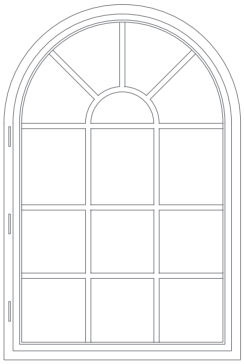
STANDARD FEATURES

- Sleek fold-down crank handle won't interfere with window treatments
- 6/4 sash construction for historically accurate wood window look
- 4 9/16" 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.

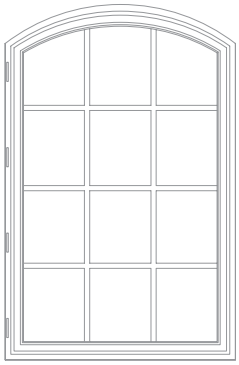


Extended Quarter Round Units



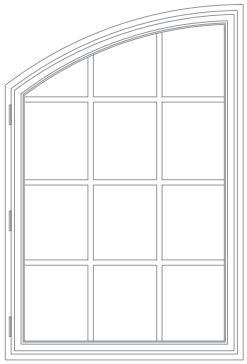
Optional Gothic Grille Pattern

Extended Round Units
(Standard Hub and Spoke Grille Pattern)



Optional Renaissance Grille Pattern

Extended Eyebrow Units
(Standard Colonial Grille Pattern)



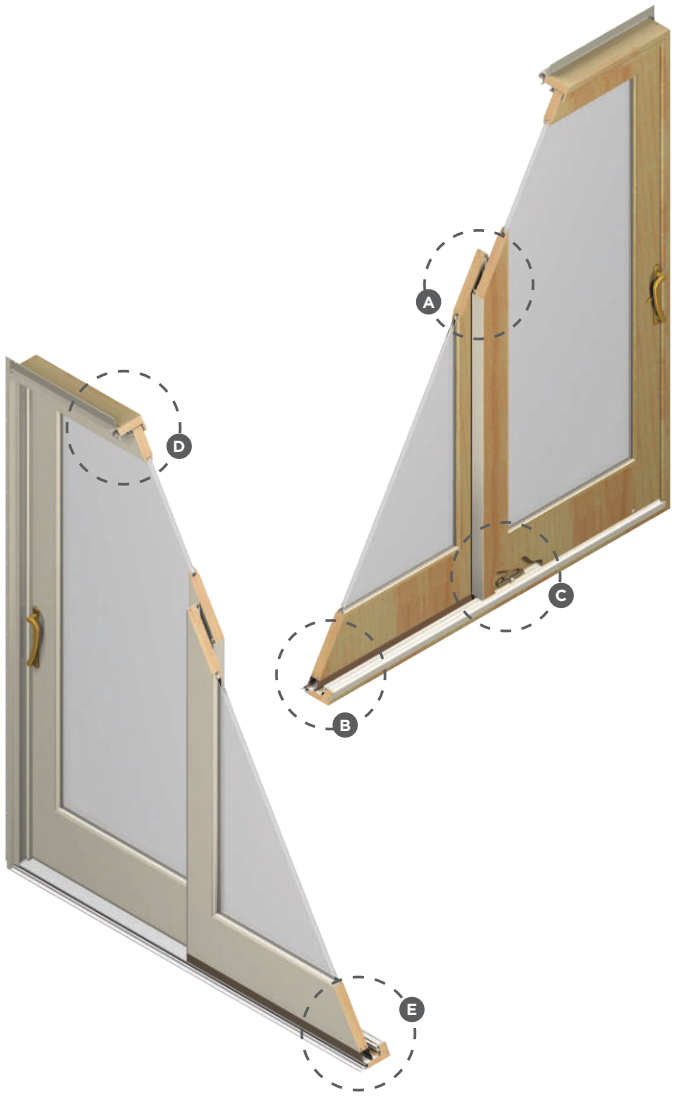
Extended Quarter Eyebrow Units



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 ½" tall finseal weatherstripping for increased protection against leaks for reduced air infiltration
- 2-point locking system
- 1 ¾" 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^{SC}, HP2+, HP2+^{SC}, HP2$_{MAX}$, HP2$_{MAX}^{SC}$, HP3$_{MAX}$ or HP3$_{MAX}^{SC}$
- 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.

A



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

B



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

C



Stainless steel rollers for smooth operation and long-lasting performance

D



Accessory grooves for mulling and casing application

E



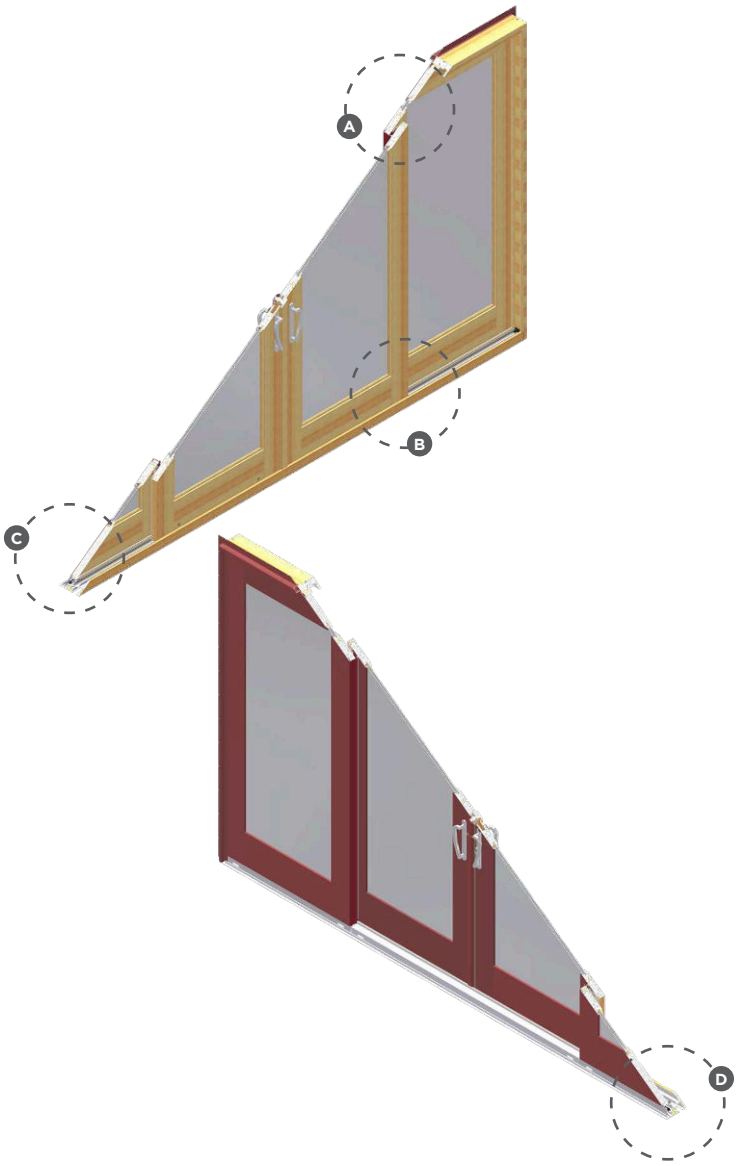
Hollow and foam filled bulb weatherstripping for increased protection against leeks



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 ½" 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 ¾" 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.

A



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

B



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

C



Stainless steel rollers for smooth operation and long-lasting performance

D



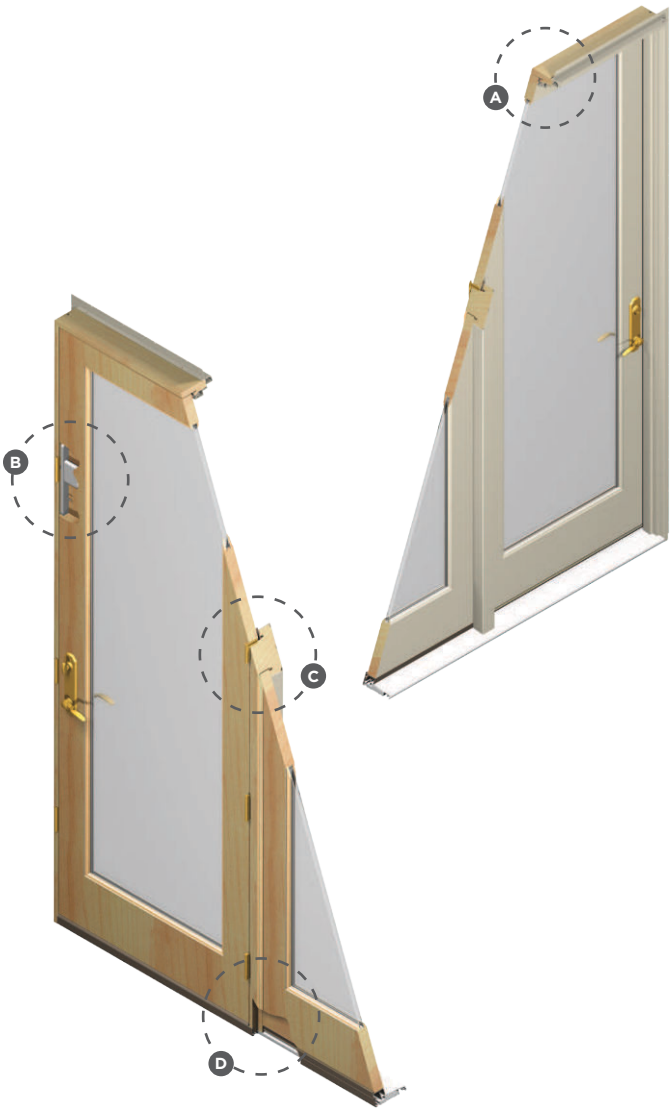
Hollow and foam filled bulb weatherstripping for increased protection against leeks



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.

HINGED PATIO DOOR



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
- ¾" 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^{SC}, HP2+, HP2+^{SC}, HP2$_{MAX}$, HP2$_{MAX}^{SC}$, HP3$_{MAX}$ or HP3$_{MAX}^{SC}$
- 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.

A



Integral face groove allows for easy mulling and exterior accessory application

B



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

C



Adjustable hinges are standard for smooth operation

D



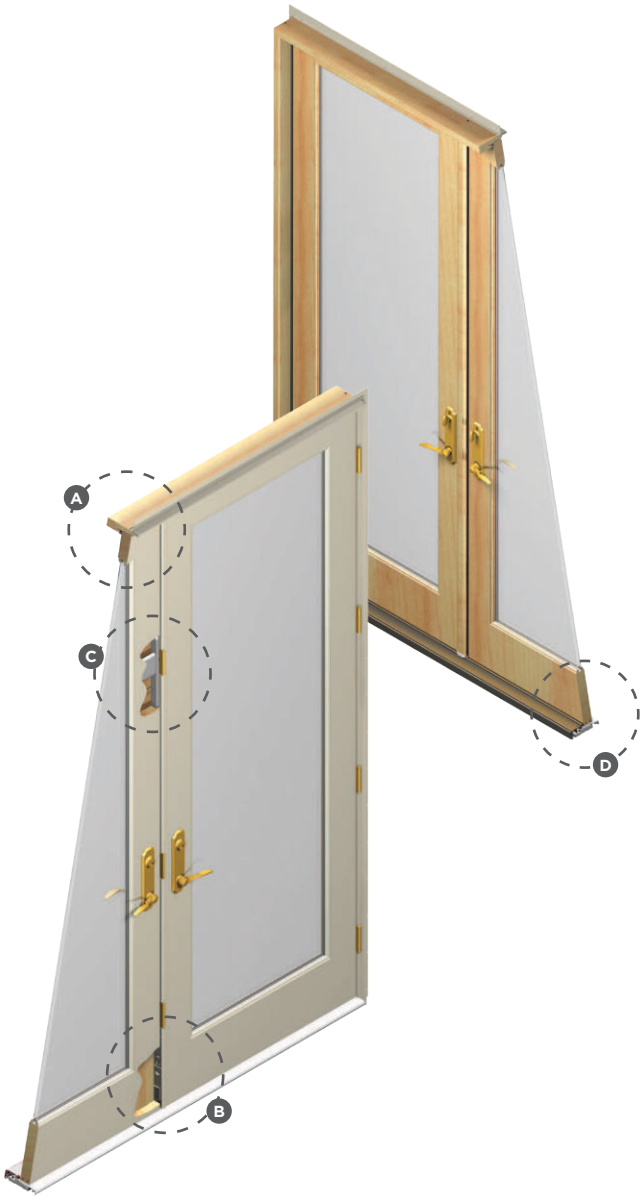
Center mull is integrated into the sill design for higher structural performance



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.

FRENCH OUTSWING PATIO DOOR



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 ¾″ 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^{SC}, HP2+, HP2+^{SC}, HP2$_{MAX}$, HP2$_{MAX}^{SC}$, HP3$_{MAX}$ or HP3$_{MAX}^{SC}$
- 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.

A



Integral face groove allows for easy mulling and exterior accessory application

B



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

C



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

D



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.

FRENCH INSWING PATIO DOOR

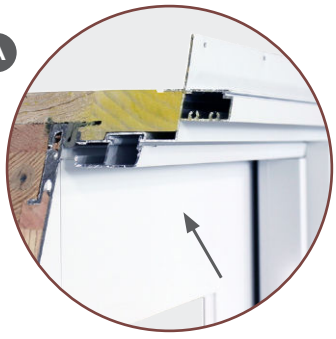


STANDARD FEATURES

- 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 ¾″ 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^{SC}, HP2+, HP2+^{SC}, HP2$_{MAX}$, HP2$_{MAX}^{SC}$, HP3$_{MAX}$ or HP3$_{MAX}^{SC}$
- 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

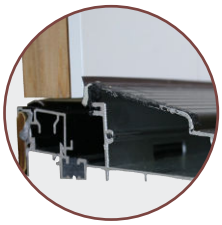
1. HP glass combines Low-E with argon gas fill for high performance.
2. Available option.

A



Integral face groove allows for easy mulling and exterior accessory application

B



Aluminum sill deck to prevent sag and resist dents

C



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

D



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^{SC}	3.03	0.33	0.21	0.40
3/4" HP^{PS}	2.94	0.34	0.42	0.51
3/4" HP2+	3.33	0.30	0.27	0.49
3/4" HP2+^{SC}	3.33	0.30	0.20	0.39
3/4" HP2+^{PS}	N/A			
WITH WARM EDGE+				
3/4" HP	3.13	0.32	0.28	0.51
3/4" HP^{SC}	3.13	0.32	0.21	0.40
3/4" HP^{PS}	3.13	0.32	0.42	0.51
3/4" HP2+	3.45	0.29	0.27	0.49
3/4" HP2+^{SC}	3.45	0.29	0.20	0.39
3/4" HP2+^{PS}	N/A			

CASEMENT

	R Value	NFRC CERTIFIED		
		U Factorz	SHGC	VT
WITH WARM EDGE				
7/8" HP	3.13	0.32	0.27	0.48
7/8" HP^{SC}	3.13	0.32	0.20	0.38
7/8" HP^{PS}	3.13	0.32	0.40	0.49
7/8" HP2+	3.57	0.28	0.26	0.47
7/8" HP2+^{SC}	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^{SC}	3.33	0.30	0.20	0.38
7/8" HP^{PS}	3.33	0.30	0.40	0.49
7/8" HP2+	3.70	0.27	0.26	0.47
7/8" HP2+^{SC}	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^{SC}	3.13	0.32	0.20	0.38
7/8" HP^{PS}	3.13	0.32	0.40	0.49
7/8" HP2+	3.45	0.29	0.26	0.47
7/8" HP2+^{SC}	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^{SC}	3.33	0.30	0.20	0.38
7/8" HP^{PS}	3.23	0.31	0.40	0.49
7/8" HP2+	3.70	0.27	0.26	0.47
7/8" HP2+^{SC}	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^{SC}	2.70	0.37	0.17	0.31
7/8" HP2+	2.94	0.34	0.21	0.39
7/8" HP2+^{SC}	2.94	0.34	0.16	0.31
1" HP2$_{MAX}$	3.23	0.31	0.19	0.31
1" HP2$_{MAX}^{SC}$	3.23	0.31	0.14	0.19
1" HP3$_{MAX}$	3.33	0.3	0.17	0.3
1" HP3$_{MAX}^{SC}$	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^{SC}	2.94	0.34	0.17	0.31
7/8" HP2+	3.13	0.32	0.21	0.39
7/8" HP2+^{SC}	3.03	0.33	0.16	0.31
1" HP2$_{MAX}$	3.33	0.3	0.19	0.31
1" HP2$_{MAX}^{SC}$	3.33	0.3	0.14	0.19
1" HP3$_{MAX}$	3.45	0.29	0.17	0.3
1" HP3$_{MAX}^{SC}$	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^{SC}	2.94	0.34	0.13	0.25
7/8" HP2+	3.13	0.32	0.17	0.31
7/8" HP2+^{SC}	3.13	0.32	0.13	0.24
1" HP2$_{MAX}$	3.33	0.3	0.15	0.24
1" HP2$_{MAX}^{SC}$	3.33	0.3	0.11	0.15
1" HP3$_{MAX}$	3.45	0.29	0.14	0.24
1" HP3$_{MAX}^{SC}$	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^{SC}	3.03	0.33	0.13	0.25
7/8" HP2+	3.23	0.31	0.17	0.31
7/8" HP2+^{SC}	3.23	0.31	0.13	0.24
1" HP2$_{MAX}$	3.45	0.29	0.15	0.24
1" HP2$_{MAX}^{SC}$	3.45	0.29	0.11	0.15
1" HP3$_{MAX}$	3.57	0.28	0.14	0.24
1" HP3$_{MAX}^{SC}$	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^{SC}	2.94	0.34	0.13	0.25
7/8" HP2+	3.13	0.32	0.17	0.31
7/8" HP2+^{SC}	3.13	0.32	0.13	0.24
1" HP2$_{MAX}$	3.33	0.3	0.15	0.24
1" HP2$_{MAX}^{SC}$	3.33	0.3	0.11	0.15
1" HP3$_{MAX}$	3.45	0.29	0.14	0.24
1" HP3$_{MAX}^{SC}$	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^{SC}	3.03	0.33	0.13	0.25
7/8" HP2+	3.23	0.31	0.17	0.31
7/8" HP2+^{SC}	3.13	0.32	0.13	0.24
1" HP2$_{MAX}$	3.45	0.29	0.15	0.24
1" HP2$_{MAX}^{SC}$	3.45	0.29	0.11	0.15
1" HP3$_{MAX}$	3.57	0.28	0.14	0.24
1" HP3$_{MAX}^{SC}$	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^{SC}	3.03	0.33	0.13	0.25
7/8" HP2+	3.23	0.31	0.17	0.31
7/8" HP2+^{SC}	3.23	0.31	0.13	0.24
1" HP2$_{MAX}$	3.57	0.28	0.15	0.24
1" HP2$_{MAX}^{SC}$	ª3.57	0.28	0.11	0.15
1" HP3$_{MAX}$	3.70	0.27	0.13	0.24
1" HP3$_{MAX}^{SC}$	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^{SC}	3.13	0.32	0.13	0.25
7/8" HP2+	3.33	0.3	0.17	0.31
7/8" HP2+^{SC}	3.33	0.3	0.13	0.24
1" HP2$_{MAX}$	3.70	0.27	0.15	0.24
1" HP2$_{MAX}^{SC}$	3.70	0.27	0.11	0.15
1" HP3$_{MAX}$	3.85	0.26	0.13	0.24
1" HP3$_{MAX}^{SC}$	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^{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

Low-E2+^{SC} — Dual-pane with one lite of solar cooling Low-E and one lite of Interior Surface Low-E

Low-E^{PS} — Dual-Pane with one lite of Passive Solar Low-E

Low-E2+^{PS} — 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^{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

HP^{PS} – One lite of passive solar Low-E glass (Surface 3) with argon gas fill

HP2+^{PS} – One lite of passive solar Low-E and one lite of Interior Surface Low-E with argon gas fill

HP2$_{MAX}$ – Triple-pane glass package with two lites of Low-E and an interior glass substrate with two chambers of argon gas fill

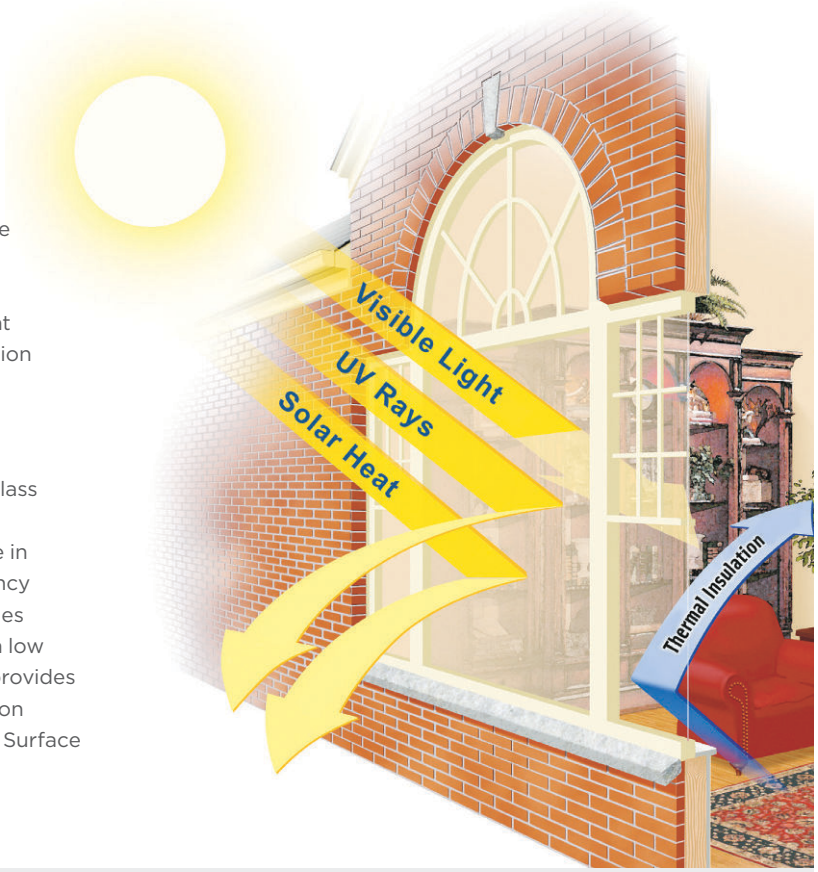
HP3$_{MAX}$ – Triple-pane glass package with two lites of Low-E and one lite of Interior Surface Low-E with two chambers of argon gas fill

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^{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.

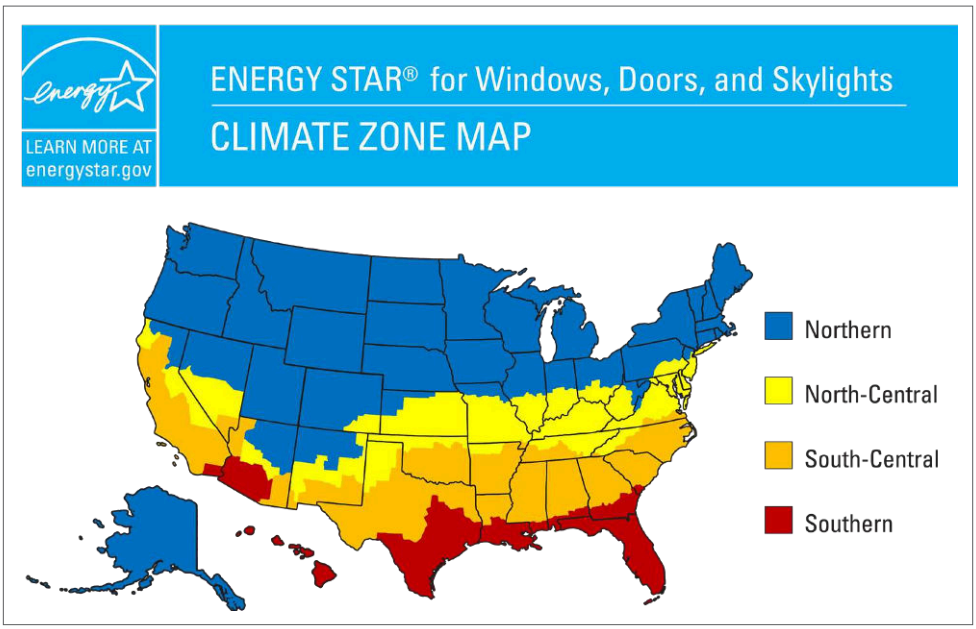
Our *Interior Surface Low-E* is engineered to have the characteristic window manufacturers and homeowners need most — lower U-Factor— and is applied to the surface of the glass you can touch inside your home, providing increased comfort and improved energy savings. One major benefit is a decrease in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



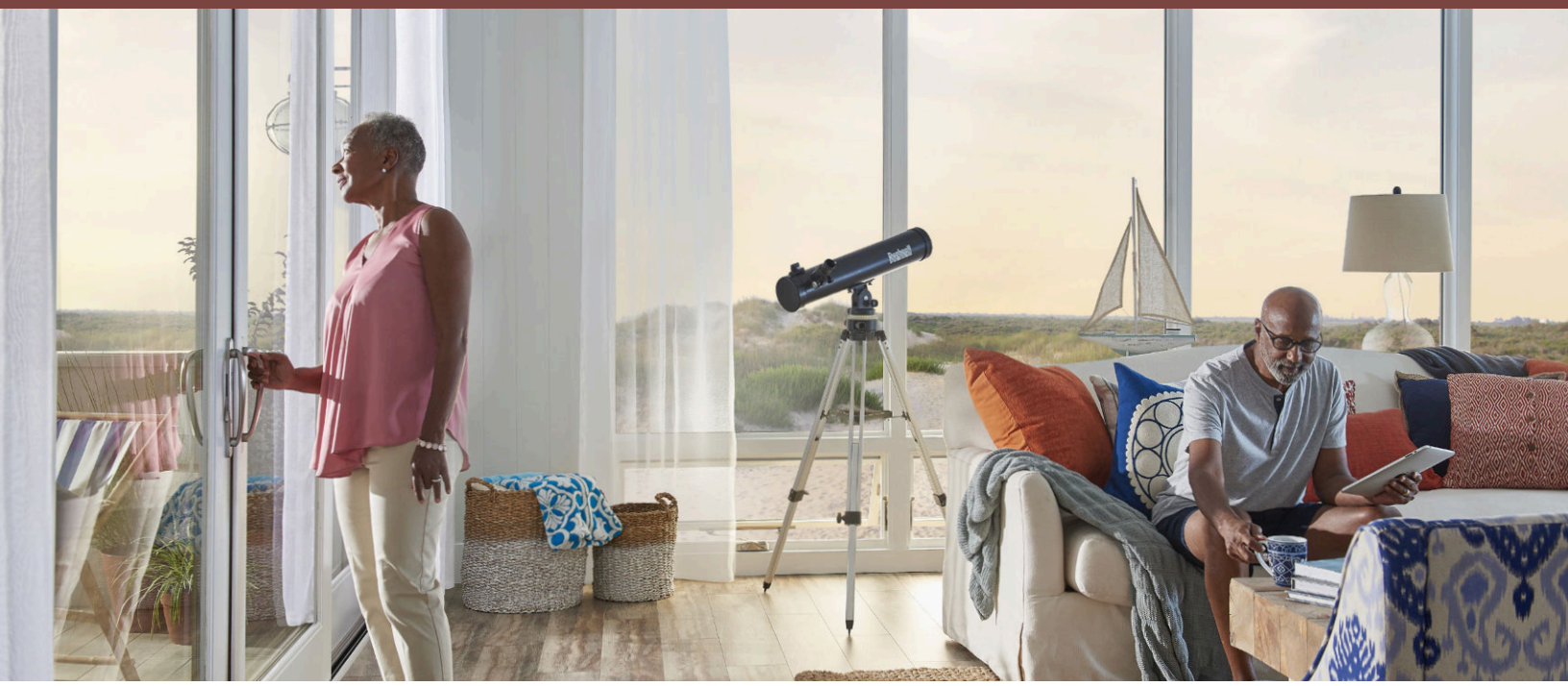
Ply Gem MIRA Aluminum-Clad Wood windows and patio doors can be configured to meet a specific ENERGY STAR zone in all states. Your investment in ENERGY STAR products will pay for itself over time in reduced energy bills, not to mention increase the comfort level inside your home.

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

WE SELL ENERGY STAR

NFRC National Fenestration Rating Council®

GLASS OPTIONS, SCREENS & IMPACT RATED INFO



GLASS OPTIONS

- Low-E
- Low-E^{SC}
- Low-E2+
- Low-E2+^{SC}
- HP
- HP^{SC}
- HP2+
- HP2+^{SC}
- HP^{PS}
- HP2+^{PS}
- HP2$_{MAX}$
- HP2$_{MAX}^{SC}$
- HP3$_{MAX}$
- HP3$_{MAX}^{SC}$
- Tinted
- Obscure
- Black Spandrel
- Tempered*
- Laminated (security)
- Sound Package (laminated)

* 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.



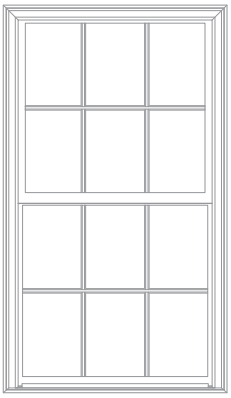
IMPACT RATED



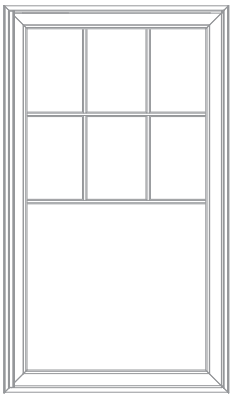
- Rated in accordance with International Residential Codes and meets impact requirements in U.S. Zone 2 (110-120 mph) and Zone 3 (120-140 mph)
- Passes ASTM E1886/1996 Large Missile Impact and Cycling Tests
- Meets AAMA/WDMA/CSA 101/I.S.2/A440 standards. Florida Building Commission approved
- Meets wind-borne 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

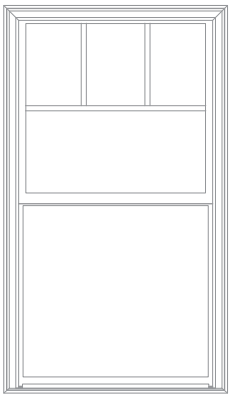
STANDARD GRILLE PATTERNS



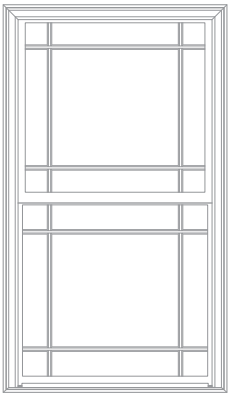
Colonial



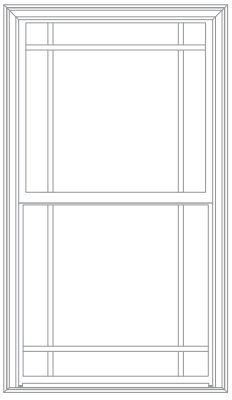
Half Colonial
(shown on Casement)



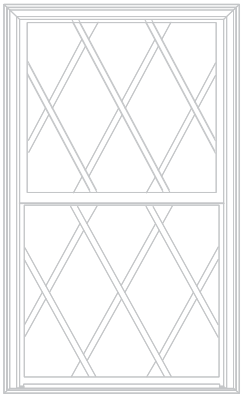
Plaza



Prairie



Perimeter Prairie



Diamond

GRILLE STYLES



⅝″ Flat GBG



⅞″ Flat GBG



⅝″ Sculptured GBG



1″ Contoured GBG



⅞″ SDL



1¼″ SDL



⅞″ Full Surround Removable

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

Putty Glazed SDL Bar



Visit 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.

WHITE

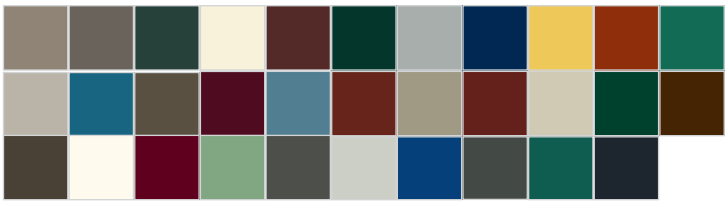
BLACK

DARK BRONZE



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.





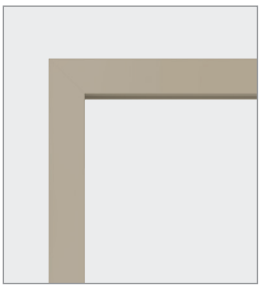
GET **Custom** Options

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.

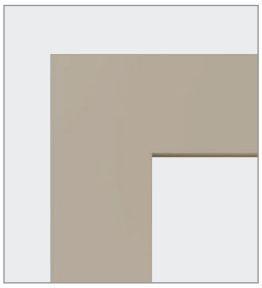
EXTERIOR CASING, INTERIOR COLORS & SHAPES

EXTERIOR CASING OPTIONS


J-Channel*


180 Brick Mould


3¼" Williamsburg*


3½" Flat*


Sill Nose
across bottom only

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

INTERIOR COLORS



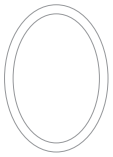
EXTENSION JAMBS

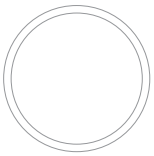
Available in widths between 4 ⁹⁄₁₆" to 8 ⁹⁄₁₆" for windows and 4 ⁹⁄₁₆" or 6 ⁹⁄₁₆" for doors.

ARCHITECTURAL SHAPES


Right Triangle


Octagon


Oval


Full Round


Pentagon


Triangle

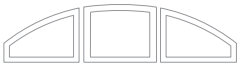

Clip Trapezoid


Elliptical


Eyebrow


Rectangle

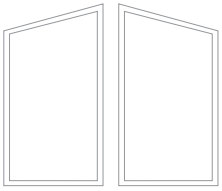

Trapezoid Transom

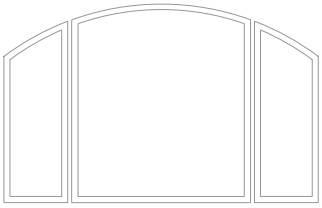

Segmented Arch Transom


Arch Transom

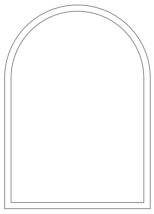

Circle Head


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

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