



## 960 SLIDING PATIO DOOR

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



## FEATURES

- 1 Integral pre-punched nailing fin facilitates easy and accurate installation; frame options include 1<sup>3</sup>/<sub>8</sub>" nail fin setback with stucco key or J-channel, dual wall flush fin or no fin
- 2 Maintenance-free multi-chamber New Generation PVC vinyl construction with fusion-welded corners for durability, weather-tight performance and beauty
- 3 Smooth gliding rollers provide long lasting durability
- 4 Two-point lock with adjustable strikes is standard on 2-panel and 3-panel doors and four-point lock is standard on 4-panel doors
- 5 Energy-efficient Warm Edge insulating tempered HP glass reduces energy cost and reduces fabric fading; optional Warm Edge+ spacer system for enhanced performance
- 6 Shoot-bolt in 4-panel doors for added security
- 7 4<sup>3</sup>/<sub>8</sub>" frame depth with heavy vinyl walls for strength and stability
- 8 Anodized aluminum threshold cover



960 sliding patio doors are available with optional grilles-between-the-glass (GBG) and simulated-divided-lite (SDL) grilles to enhance your home's curb appeal.

### Interior Handle Finish Upgrades



ANTIQUE BRASS



SATIN NICKEL



OIL RUBBED BRONZE



Standard color-coordinated exterior handle



Standard color-coordinated interior handle



## 960 INSWING HINGED PATIO DOOR

**960 INSWING HINGED PATIO DOORS** allow you to wash your home in warm sunlight, making your indoor spaces more lovely and livable, the perfect expression of your own design style. Because these eye-catching doors open inwardly, you'll have more freedom and flexibility when designing the outdoor living area on the other side.

# 960 INSWING HINGED PATIO DOOR



## FEATURES

- 1 Integral pre-punched nailing fin facilitates easy and accurate installation
- 2 Maintenance-free multi-chamber New Generation PVC vinyl construction with fusion-welded corners for durability, weather-tight performance and beauty
- 3 Available configurations include French hinged, center hinged or hinged (shown) or single panel hinged operation
- 4 High performance multi-point locking system that includes a steel latch and dead bolt and shoot bolt in the head and threshold — withstands up to 300 lbs. of force
- 5 Energy-efficient Warm Edge insulating tempered HP glass reduces energy cost and reduces fabric fading; Optional Warm Edge+ spacer system for enhanced performance
- 6 Heavy duty two way adjustable hinges allow for ease of installation and ensure proper alignment
- 7 4 13/16" frame depth with heavy vinyl walls for strength and stability
- 8 Anodized aluminum threshold cover

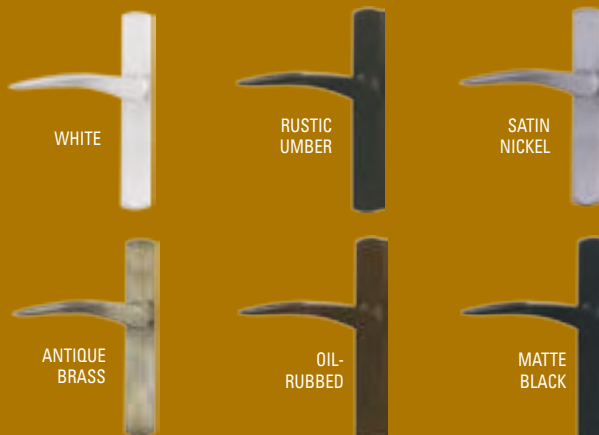


Exterior keyed lock



Interior lock

## HARDWARE FINISHES<sup>2</sup>



1. Units up to 5980 are rated DP25 standard. 2. White hardware is default on hinged patio doors that are all white (interior & exterior). Rustic umber hardware is default on all other interior/exterior color combinations (including earthtone exterior with white interior) or woodgrain interior hinged patio doors.



## 960 OUTSWING HINGED PATIO DOOR

**960 OUTSWING HINGED PATIO DOORS.** Whether you're in the mood to throw open your doors and embrace the world or serenely gaze on Mother Nature from inside, these beautifully styled patio doors will let you indulge your whim while maximizing your indoor space. Their elegant yet secure design protects you from the elements and intruders.



## FEATURES

- 1 Integral pre-punched nailing fin facilitates easy and accurate installation
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- 8 Anodized aluminum threshold cover



Exterior keyed lock



Interior lock

## HARDWARE FINISHES<sup>2</sup>



WHITE



RUSTIC  
UMBER



SATIN  
NICKEL



ANTIQUE  
BRASS



OIL-  
RUBBED



MATTE  
BLACK

1. Units up to 5980 are rated DP25 standard. 2. White hardware is default on hinged patio doors that are all white (interior & exterior). Rustic umber hardware is default on all other interior/exterior color combinations (including earthtone exterior with white interior) or woodgrain interior hinged patio doors.



## 970 FRENCH SLIDING PATIO DOOR

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

# 970 FRENCH SLIDING PATIO DOOR



## FEATURES

- 1 Integral pre-punched nailing fin facilitates easy and accurate installation; frame options include 1<sup>3</sup>/<sub>8</sub>" nail fin setback with stucco key or J-channel, dual wall flush fin or no fin
- 2 Maintenance-free multi-chamber New Generation PVC vinyl construction with fusion-welded corners for durability, weather-tight performance and beauty
- 3 Smooth gliding rollers provide long lasting durability
- 4 Two-point lock with adjustable strikes is standard on 2-panel and 3-panel doors and four-point lock is standard on 4-panel doors
- 5 Energy-efficient Warm Edge insulating tempered HP glass reduces energy cost and reduces fabric fading; optional Warm Edge+ spacer system for enhanced performance
- 6 Shoot-bolt in four-panel doors for added security
- 7 4<sup>3</sup>/<sub>8</sub>" frame depth with heavy vinyl walls for strength and stability
- 8 Anodized aluminum threshold cover
- 9 Wide stiles and rails for an authentic French look



970 French sliding patio doors are available with optional grilles-between-the-glass (GBG) and simulated-divided-lite (SDL) grilles to enhance your home's curb appeal.

### Interior Handle Finish Upgrades



ANTIQU  
BRASS



SATIN  
NICKEL



OIL RUBBED  
BRONZE



Standard color-  
coordinated  
exterior handle



Standard color-  
coordinated  
interior handle





## 980 FRENCH SLIDING PATIO DOOR

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



## FEATURES

- 1 Integral pre-punched nailing fin facilitates easy and accurate installation; frame options include 1" nail fin setback, single wall flush fin or no fin
- 2 Maintenance-free multi-chamber New Generation PVC vinyl construction with fusion-welded corners for durability, weather-tight performance and beauty
- 3 Smooth gliding stainless steel rollers provide long-lasting durability
- 4 Two-point lock with adjustable strikes is standard on 2-panel and 3-panel doors and four-point lock is standard on 4-panel doors
- 5 Energy-efficient Warm Edge insulating tempered HP glass reduces energy cost and reduces fabric fading; optional Warm Edge+ spacer system for enhanced performance
- 6 4<sup>3</sup>/<sub>8</sub>" frame depth with heavy vinyl walls for strength and stability
- 7 Wide stiles and rails for an authentic French look



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

### Interior Handle Finish Upgrades



ANTIQU  
BRASS



SATIN  
NICKEL



OIL RUBBED  
BRONZE



Standard color-coordinated exterior handle



Standard color-coordinated interior handle



## SKYWALL

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



## FEATURES

- 1 Frame types include no fin, single wall flush fin, stucco key, J-Channel or nail fin with 1<sup>3</sup>/<sub>8</sub>" setback
- 2 New Generation uPVC vinyl never needs painting or caulking and resists conducting heat and cold
- 3 Fusion-welded frames and sash for extra strength and dependable performance
- 4 Available in white or sand color options
- 5 Color-coordinated hardware
- 6 3<sup>7</sup>/<sub>16</sub>" frame depth with heavy vinyl walls for strength and stability
- 7 Energy-efficient Warm Edge insulating tempered HP glass reduces energy cost and reduces fabric fading; optional Warm Edge+ spacer system for enhanced performance



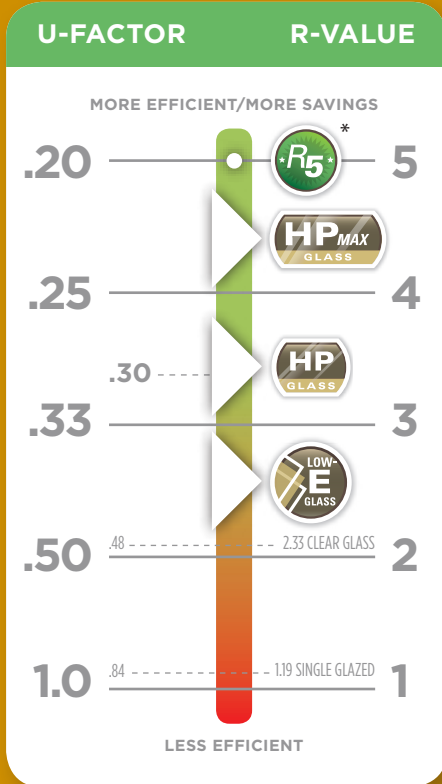
Skywalls can be configured with casement, awning and/or fixed panels and are available with optional grilles-between-the-glass (GBG) and simulated-divided-lite (SDL) grilles to enhance your home's curb appeal.



Pinch fusion-welded strength

# EXPLANATION OF GLASS PACKAGES

## PERFORMANCE COMPARISON



The lower the U-Factor, the greater the insulation value. R-Value is the inverse ( $R=1/U$ ) of the U-Factor. Total Unit Factors determined per NFRC-100 (National Fenestration Rating Council). Chart shows relationship between performance and Ply Gem Windows glass package options, not including energy package upgrade.

\*Ply Gem Windows R-5 products meet or exceed a U-Factor of 0.20 on fixed units & 0.22 on operating units.



### LOW-E GLASS PACKAGES

Our Low-E glass packages combine Low-E and Warm Edge spacer options, providing insulating glass options to meet your specific needs. Our Low-E glass packages provide better performance in regions with hot summers and cold winters. Our Low-E<sup>SC</sup> (solar cooling) glass package is optimized for regions with significant indoor cooling and glare reduction requirements. Our Low-E glass packages can be combined with capillary tubes to address performance needs in high elevation applications.

**Low-E** — One lite of Low-E.

**Low-E<sup>SC</sup>** — One lite of solar cooling Low-E.

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

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

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

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



### HP GLASS PACKAGES

Our HP glass packages combine Low-E with argon gas fill and Warm Edge spacer options, providing high-performance insulating glass options to meet your specific needs. Argon is a safe, odorless, colorless gas, which is heavier or denser than air. When used in conjunction with Low-E glass, argon provides better insulation. That's because heat and cold do not pass through argon gas as easily as through air. Argon is nontoxic and presents no human health or environmental concerns. HP glass package is also available in solar cooling (<sup>SC</sup>) glass packages for regions with significant indoor cooling and glare reduction requirements.

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

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

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



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

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

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



## WHAT ARE R-5 WINDOWS?

High-performance R-5<sup>1</sup> windows are highly insulating windows with a whole-window R-Value of 5 (a U-Factor of around 0.2). Most of our Pro series products can be configured as R-5 units. These products are the top tier of energy-efficient windows for cold and mixed climates.

ENERGY STAR<sup>®</sup> windows have a U-Factor of around 0.3. Reducing the U-Factor from 0.3 to 0.2, with high-performance R-5 windows, reduces average heat loss through the window by more than 30%,<sup>2</sup> and saves consumers money on energy bills.

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

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

# THERMAL PERFORMANCE — PATIO DOORS

## PRO SERIES 960 SLIDING PATIO DOOR

	R Value	NFRC CERTIFIED		
		U Factor	SHGC	VT
WITH WARM EDGE				
3/4" Clear	2.13	0.47	0.61	0.64
3/4" HP	3.33	0.30	0.28	0.54
3/4" HP <sup>SC</sup>	3.33	0.30	0.22	0.42
3/4" HP2+	3.85	0.26	0.27	0.49
1" HP2 <sub>MAX</sub>	4.17	0.24	0.24	0.42
1" HP3 <sub>MAX</sub>	4.55	0.22	0.22	0.40
WITH WARM EDGE+				
3/4" HP	3.45	0.29	0.28	0.54
3/4" HP <sup>SC</sup>	3.45	0.29	0.22	0.42
3/4" HP2+	3.85	0.26	0.27	0.49
R-5 OPTION				
1" R-5	4.55	0.22	0.22	0.40

## PRO SERIES 970 FRENCH SLIDING PATIO DOOR

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

## PRO SERIES 980 FRENCH SLIDING PATIO DOOR

	R Value	NFRC CERTIFIED		
		U Factor	SHGC	VT
WITH WARM EDGE				
3/4" Clear	2.13	0.47	0.52	0.54
3/4" HP	3.13	0.32	0.26	0.47
3/4" HP <sup>SC</sup>	3.13	0.32	0.23	0.38

### NOTE:

All units are NAMI certified and rated in accordance with NFRC 100/200 standards by an AAMA accredited lab. Performance values reflect the performance of units tested with the following configuration: 3/4" IGU on dual pane glass packages and 1" on triple pane and R-5 glass packages, 3mm glass and no grilles.

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





## LIMITED LIFETIME WARRANTY

### One of Life's Few Guarantees.

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

We believe so strongly in the durability of our windows that we back each window unit with our hassle-free Limited Lifetime Warranty. Lifetime means your windows are protected under the warranty for as long as you live in your home. And your warranty is transferable to the next homeowner helping you protect your investment by increasing your home's resale value.

Wouldn't it be nice if you could feel so confident about everything you bought?

# WHAT IS LOW-E?

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

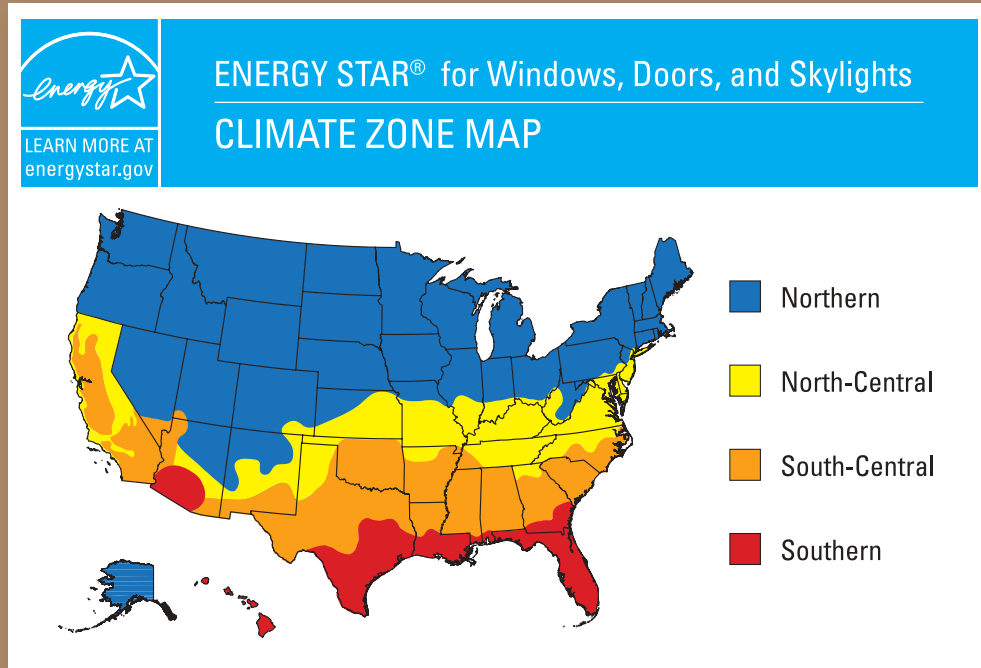
Our *Interior Surface Low-E* is engineered to have the characteristic window manufacturers and homeowners need most — lower U-Factor— and is applied to the surface of the glass you can touch inside your home, providing increased comfort and improved energy savings. One major benefit is a decrease in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



## NATURAL LIGHT WITHOUT THE GLARE.

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

# ENERGY STAR®



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

