

CONTRACTOR SERIES

REPLACEMENT WINDOWS

2000 SERIES



A WHOLE NEW POINT OF VIEW.

It's more than a window. It's a whole new point of view. At Ply Gem Windows, we have a different view for the way the window business should be run. We believe you should have access to all of the top quality styles and brands across the country. That's why we've taken our entire portfolio of brands, brands that you know and trust, and given them one name – Ply Gem Windows. With one name comes big advantages, starting with a national manufacturing and distribution network. Combine that with our commitment to customer service, sustainable practices and a wide variety of window styles that fit every design need, and you'll get the perfect window for every project and every budget.

> As part of the Ply Gem family, you'll always have access to leading brands. From windows, doors, siding and accessories, stone veneer, fence and rail, rainware, shutters and designer accents, we have something for every project. We work with residential builders, remodelers, architects, distributors and dealers to help build sales. When you combine more than 50 years of experience, industry-leading customer service, and trusted local relationships you've got a company you can count on. **Ply Gem. Building products. Building success.**



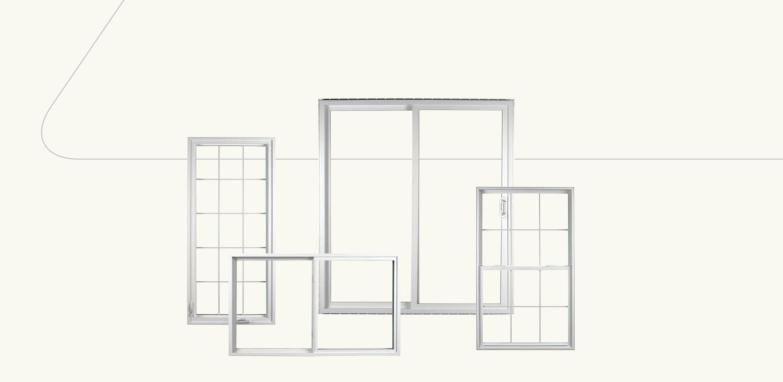
CONTRACTOR SERIES

REPLACEMENT WINDOWS

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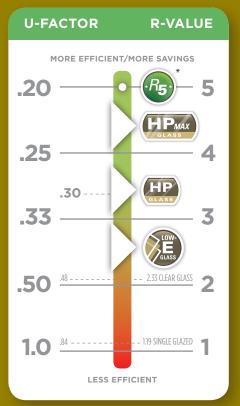


Replacement windows with irreplaceable looks. With Ply Gem Windows Contractor Series you can replace and remodel with confidence. That's because our windows deliver value, performance and style to any project and any home. When you're ready to replace your existing windows, Ply Gem Windows Contractor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



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^{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 elevation applications.

Low-E — One lite of Low-E

Low-E^{sc} – One lite of solar cooling Low-E

Low-E2[‡] – 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 **Low-E2**_{MAX}[‡] — Triple-pane with two lites of Low-E with an interior glass substrate **Low-E3**_{MAX}[‡] — Triple-pane with two lites of Low-E and one lite of Interior Surface Low-E

[‡] These glass packages are combined with capillary tubes to address performance needs in high elevation applications.



HP GLASS PACKAGES

Our HP glass packages combine Low-E with argon gas fill and Warm Edge spacer options, providing high-performance insulating glass

options to meet your specific needs. Argon is a safe, odorless, colorless gas, which is heavier, or denser, than air. When used in conjunction with Low-E glass, argon provides better insulation. That's because heat and cold do not pass through argon gas as easily as through air. Argon is nontoxic and presents no human health or environmental concerns. Our HP glass package is also available with a solar cooling (^{sc}) option 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 – Two lites of Low-E with argon gas fill

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



HPMAX GLASS PACKAGES (triple-pane)

Our HPMAX 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_{MAX} — Triple-pane with two lites of Low-E with an interior glass substrate and two chambers of argon gas fill **HP3**_{MAX} — 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-5¹ windows are highly insulating windows with a whole-window R-Value of 5 (a U-Factor of around 0.2). Most of our Contractor 2000 series products can be configured as R-5 units. These products are the top tier of energy efficient windows for cold and mixed climates.

ENERGY STAR[®] 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%,² and saves consumers like you money on energy bills.

¹ R-5 = U-Factor of .22 or lower for operating units; .20 for fixed units ² U.S. Department of Energy – Energy Efficiency and Renewable Energy EERE News, May 27, 2010

2000 CONTRACTOR SERIES





Shown is Contractor 2000 Series double hung corner cut featuring HPMAX glass package upgrade with High DP Performance option.

OVERALL FEATURES

 Pinch fusion-welding construction creates a solid, one-piece unit with no excess variance for long-term durability



- 2 Warm Edge glass spacer system reduces thermal transfer around the glass perimeter by using a unique U-shaped channel to separate glass panes and interrupt the natural flow of heat to cold; upgrade to Warm Edge+ for enhanced performance
- **3** High DP performance option, featuring reinforced sash on double hung and sliding windows, ensures security and peace of mind when the weather outside is threatening
- 4 Available with Low-E, HP or HP*MAX* glass package options (see page 6 for details)
- 5 All product styles can be configured to meet ENERGY STAR[®] requirements in all states
- **6** NFRC rated and certified
- 7 3 ¼" frame depth for traditional pocket window installation
- 8 Designed with equal sight line sash on double hung for traditional wood window appearance
- **9** New Generation uiPVC vinyl never needs painting or caulking and resists conducting heat and cold
- 10 Hidden SilLock design with a sloped sill eliminates the need for weep holes, forces water to drain to the exterior of the window and keeps your windows dry, providing enhanced weather-tight performance







Warm Edge spacer (standard)



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



Pinch fusionwelding

LIMITED LIFETIME WARRANTY

One of Life's Few Guarantees.

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

We believe so strongly in the durability of our windows that we back each window unit with our hasslefree 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^{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.

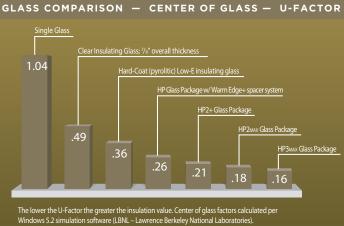
NATURAL LIGHT WITHOUT THE GLARE.

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.

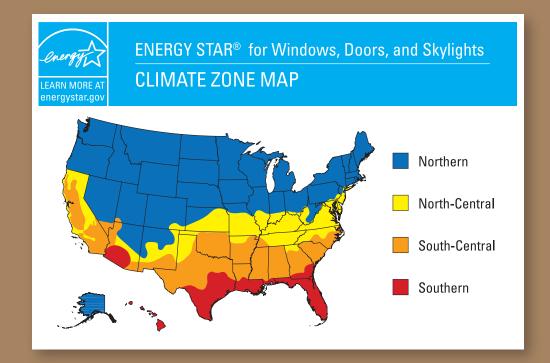
ENERGY EFFICIENCY

GLASS COMPARISON - TOTAL UNIT - U-FACTOR





ENERGY STAR® INFORMATION



Ply Gem Replacement Contractor Series windows and patio doors can be configured with an optional glass package (see glass comparison charts above) to meet a specific ENERGY STAR zone in all states. Your investment in ENERGY STAR products will pay for itself over time in reduced energy bills, as well as increase the comfort level inside your home.





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

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





2000 DOUBLE HUNG WINDOW

2000 DOUBLE HUNG WINDOWS. Open up a world of

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

2000 DOUBLE HUNG WINDOW





FEATURES

- I Maintenance-free multi-chamber PVC construction with fusionwelded sash and frame
- 2 Sleek cam-action sash locks provide security and enhanced performance without compromising beauty
- 3 7/s" IGU glass systems with energy efficient Warm Edge (standard) or Warm Edge+ (optional upgrade) available in Low-E, HP or HP_{MAX} glass package options (see page 6 for details)
- 4 High DP performance option, featuring reinforced sash, ensures security and peace of mind when the weather outside is threatening
- 5 3 ¼" frame depth for traditional pocket window installation with flange and fin options to meet a variety of installation options (flange, no fin nail fin or nail fin w/j-channel)

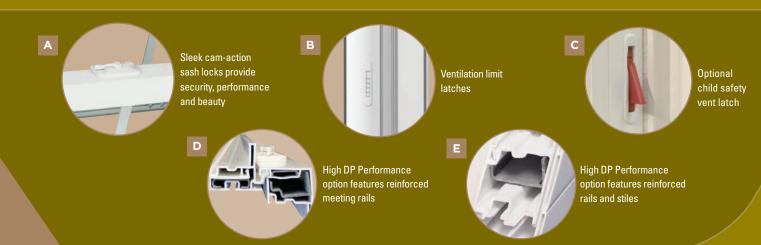






- 6 Designed with equal sight line sash for traditional wood window appearance
- 7 Both sash tilt in and are removable for easy and safe cleaning
- 8 Locking pivot bar and shoe assembly in upper sash and jamb jacks at meeting rail help ensure a square installation and enhance energy efficiency
- **9** Integral interlock system provides protection against air infiltration and makes window more secure
- **10** Double weatherstripped sash provides extra protection against dust, dirt and noise
- 11 Integral lift handles make opening windows easier
- 12 Extruded aluminum half screen with fiberglass mesh standard; full screen optional
- 13 Tested and approved to meet NFRC requirements; ENERGY STAR[®] units available
- **14** Interior and exterior accessory groove allows for a wide selection of installation options
- 15 Two ventilation limit latches standard, child safety latches optional
- 16 Hidden SilLock design with a sloped sill eliminates the need for weep holes, forces water to drain to the exterior of the window, and keeps your windows dry, providing enhanced weather-tight performance







III I

2000 SLIDING WINDOW

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

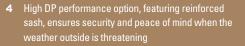
2000 SLIDING WINDOW





FEATURES

- 1 Maintenance-free multi-chamber PVC construction with fusion-welded sash and frame
- 2 3 ¼" frame depth for traditional pocket window installation with flange and fin options to meet a variety of installtion options (flange, no fin nail fin or nail fin w/j-channel)
- 3 7/s" IGU glass systems with energy efficient Warm Edge (standard) or Warm Edge+ (optional upgrade) available in Low-E, HP or HP_{MAX} glass package options (see page 6 for details)



- **5** Convenient lift-out sash for easy cleaning
- 6 Track and adjustable roller system for ease of operation
- 7 Sleek cam-action sash locks provide security and enhanced performance without compromising beauty
- 8 Double-opposed weatherstrip on sash ensures smooth operation
- **9** Extruded aluminum half screen with fiberglass mesh
- 10 Tested and approved to meet NFRC requirements; ENERGY STAR® units available
- **11** Interior and exterior accessory grooves provides a wide selection of installation options
- 12 One ventilation limit latch standard or child safety latch optional at bottom rail









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

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D





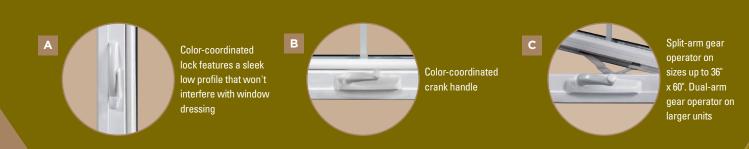
FEATURES 1 Maintenance-free multi-chamber PVC construction with fusion-welded sash and frame 2 ⁷/₈" IGU glass systems with energy efficient Warm ELDIN Edge (standard) or Warm Edge+ (optional upgrade) available in Low-E, HP or HPMAX glass package options (see page 6 for details) VINYL 4 Interior and exterior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

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









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





FEATURES

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

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









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



Color-coordinated crank handle



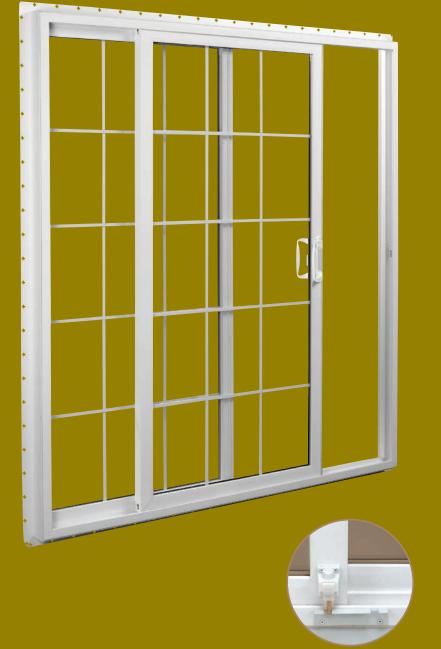
Split-arm gear operator on sizes up to 36" x 60". Dual-arm gear operator on larger units



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

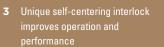
5800 SLIDING PATIO DOOR





FEATURES

- I Pinch fusion-welded for a weathertight assembly with maximum strength
- 2 3/4" IGU glass systems with energy efficient Warm Edge (standard) or Warm Edge+ (optional upgrade) available in Low-E or HP glass package options (see page 6 for details)



- 4 Field reversible both before and after installation
- 5 Color-coordinated handle
- 6 Operating units available in 5', 6' and 8' widths, and 79 ½" or 81 ½" heights
- 7 Aluminum threshold and sill track
- 8 Tested and approved to meet NFRC requirements; ENERGY STAR® units available
- **9** Screen door with fiberglass mesh
- **10** Classic brass or brushed chrome hardware with key lock available

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

Optional footbolt









5700 SLIDING PATIO DOOR

5700 SLIDING PATIO DOORS. Strength. Energy

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

5700 SLIDING PATIO DOOR





FEATURES

- weathertight assembly with maximum strength
- 2 ³/₄" IGU glass systems with energy efficient Warm Edge (standard) or Warm Edge+ (optional upgrade) available in Low-E or HP glass package options (see page 6 for
- **3** Unique self-centering interlock
- after installation
- **5** Color-coordinated handle
- 6 Operating units available in 5', 6' and 8' widths, and 79 ½" or 81 ½" heights
- 7 Aluminum threshold and sill track
- 8 Tested and approved to meet NFRC requirements; ENERGY STAR® units available
- **9** Screen door with fiberglass mesh
- **10** Classic brass hardware with key









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



Colors are reproduced as accurately as printer technology allows. Please see your authorized Ply Gem Windows representative for actual samples. 1. Optional ADA Compliant sill and handle kit available.

CUSTOM GRILLES

GRILLE PATTERNS



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

* Not available in combination with triple pane glass packages





COLOR OPTIONS



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



Perimeter Prairie

ARCHITECTURAL SHAPES/FIXED



Eyebrow

Extended Eyebrow



Round, Left or Right Half Round





Triangle, Left or <u>Right</u>



Extended Quarter Eyebrow, Left or Right

SCREEN OPTIONS

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

ALUMINUM MESH

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

SOLAR BLOCK MESH

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

OPTIMUM VIEWING MESH

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

FRAME OPTIONS

GLASS OPTIONS*



• Low-E

- Low-E^{sc}
- Low-E2
- Low-E2^{sc}
- Low-E2max*
- Low-E3max*
- HP
- HPSC
- HP2
- HP2+
- HP2*MAX**
- HP3*max**



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

• Tinted

- Double Strength glass
- Obscure
- Glue Chip Obscure
- Tempered
- Laminated
- Sound Package
- * See page 6 for explanation of glass packages. Low-E2*MAX*, Low-E3*MAX*, HP2*MAX* and HP3*MAX* are not available on all products. See product pages for details. Contact your Ply Gem Windows sales representative for a full list of Contractor Series glass thickness options and ratings.

NAIL FIN NAIL FIN w/J-CHANNEL Note: For proper installation, windows with nail fin options require both fasteners through jambs and the nail fin. ICON GLOSSARY

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



SIL LOCK

Contractor 2000 Series windows with SilLock are built with a sloped sill, which forces water to drain to the exterior of the ensures a tight weatherstrip contact at the sill



NEW GENERATION VINYL

Wood or metal windows can stick when they swell or deteriorate from corrosion. New Generation Vinyl withstands harsh weather and wear-and-tear better. Ply Gem Contractor Series Replacement windows are constructed with rugged, maintenance-free New Generation uiPVC. Its low conductivity and high energy efficiency properties are ideal for Ply Gem's advanced window construction. And because vinyl's base color is solid through-and-through, you'll never need to paint or stain these windows.



PINCH FUSION WELDING

Ply Gem Contractor Series Replacement windows are entirely fusion-welded – sashes and mainframes – to create a solid, one-piece unit that maintains its strength over the years. Our state-of-the-art fusion process ensures frame and sash corners won't have the excess variance found with other welding techniques

CUSTOM SIZING

Ply Gem Contractor Series Replacement windows can be ordered in $1\!/\!_8$ increments to accommodate any replacement application providing a perfect fit and minimizing installation time and special trimming requirements.

WARM EDGE	

WARM EDGE TECHNOLOGY

Our standard Warm Edge glass spacer system within Ply Gem Contractor Series Replacement windows reduces thermal transfer around the glass perimeter by utilizing a unique U-shaped channel to separate glass panes and interrupt the natural flow of heat to cold. Warm Edge is one continuous piece creating a stronger, more energy efficient insulated glass unit. Plus, it flexes with glass expansion and contraction to ensure a strong seal for the life of the window.



WARM EDGE+ TECHNOLOGY

conductive material, which provides a lower U-Factor.



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For more information, call 888-9PLYGEM.

