



R-5 Energy Saving Ply Gem Window Program



EAST
Premium / Pro / Contractor Series
R-5 Windows & Doors

R-5 gives ENERGY STAR® a run for the savings.

High Performance Windows:

The Definition of R-5

High performance R-5¹ windows are highly insulating windows with a whole-window R-value of 5 (a U-Factor of around 0.2). 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 money on energy bills.

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

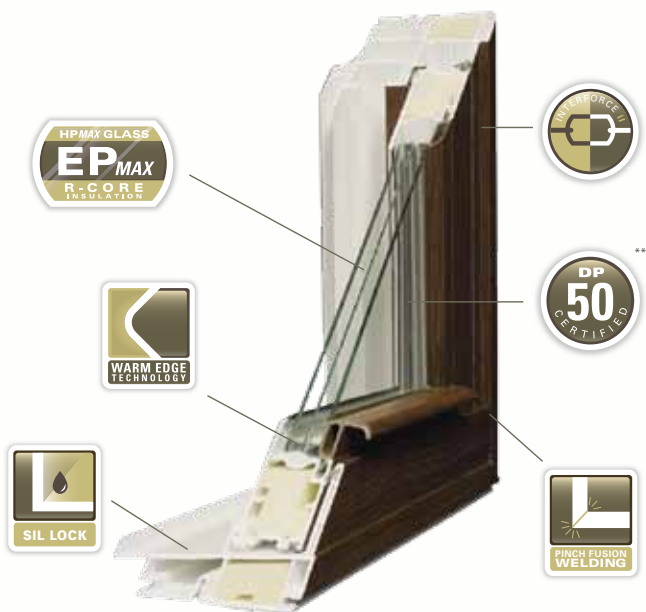
² U.S. Department of Energy – Energy-Efficiency and Renewable Energy EERE News, May 27, 2010



NEW CONSTRUCTION

Our R-5 Series products are available with nail fin* frame options, ideal for new construction projects — easy installation for builders.

* Available on Premium and Pro.



Shown above: R-5 Premium Series double hung window with EP_{MAX} glass package.

** DP50 available on Premium only

REPLACEMENT

Our R-5 Series products are available with no fin frame options on windows and doors (plus dual wall flush fin on windows), ideal for replacement of existing windows and doors.



R-5 SERIES

WINDOWS & DOORS

Features that make the difference



WARM EDGE TECHNOLOGY

The Warm Edge glass spacer system within R-5 Series windows and doors 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.



ARGON GAS FILL

A safe, odorless, colorless, naturally occurring gas, which is heavier or denser than air (40%* 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, providing better performance. Argon is non-toxic and presents no human health or environmental concerns.

Ply Gem offers gas-filled insulated units in a number of products including windows and patio doors.

**Figure courtesy of Linde Gas, Inc.*



R-CORE® INSULATION

The vinyl mainframes of Ply Gem R-5 Series windows are filled with patented[†] R-Core insulation (pre-expanded high-density solid polyurethane), the same type used in many refrigerator/freezer doors. It prevents voids and settling and results in even distribution of the maximum insulating barrier. R-5 Series windows with the Energy Package upgrade feature R-Core in both the frame and sash for the ultimate in thermal performance. [†]U.S. Patent Number: 4,516,356



HP3MAX

Our HP3_{MAX} glass package is a triple pane unit that combines three lites of Low-E with an interior glass substrate, two chambers of argon gas fill and Warm Edge spacer. Windows with the HP3_{MAX} glass system are among the most thermally-efficient windows you can buy today.



EP3MAX

Energy Package MAX (EP_{MAX}) combines the HP3_{MAX} glass package with R-Core in the sash and frame. R-Core is a patented process utilizing pre-formed polyurethane insulation. R-Core provides additional insulating qualities to the window unit for improved thermal performance. Interforce II™ fiberglass reinforcement is placed in the meeting rails of Premium Series double hung and slide windows.

Additional glass options

GLASS OPTIONS

- Advanced Easy Clean
- Tempered¹



EASY CLEAN[®] GLASS

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.

1. Tempered glass is standard on sliding patio doors.

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

INTERIOR



Golden Oak Woodgrain*

* Premium Only



Colonial Cherry Woodgrain*

* Premium Only

EXTERIOR



White

Beige

Earthtone



White

Beige

Earthtone



Color options



Natural Oak
Woodgrain*

* Premium Only



White



Beige



** Premium and Pro only

DOUBLE HUNG



Double Hung Windows remain a favorite for their combination of classic looks and convenient operation. Although these may look like traditional windows, they're the picture of modern window innovation. Available double hung configurations include operating, matching picture/fixed and factory mulled units.



FEATURES

HP3_{MAX} triple pane unit with three lites of Low-E,
an interior glass substrate and two chambers of argon gas fill

Pinch Fusion Welding

SilLock

New Generation Vinyl

Warm Edge Technology

Limited Lifetime Warranty

Custom Sizing

Energy Package MAX (EPMAX) upgrade available

GLASS OPTIONS

Advanced Easy Clean

Tempered

GRILLE OPTIONS

$\frac{5}{8}$ " Sculptured GBG (Grilles Between Glass)

$\frac{5}{8}$ " Flat GBG (Grilles Between Glass)

SCREEN OPTIONS

Aluminum Mesh

Solar Block

Optimal Viewing

FACTORY APPLIED FRAME OPTIONS

No fin

Nail fin*

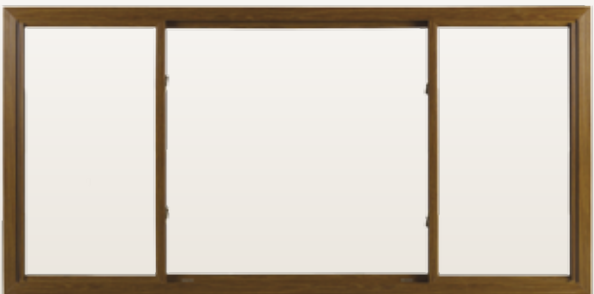
Dual wall flush fin

* Available on Premium and Pro

SLIDING WINDOW



Sliding Windows. Panoramic views meet ultimate convenience. Their undeniable beauty is matched only by their superior thermal performance, letting you enjoy your view ever so comfortably. Available sliding window configurations include two- and three-lite configurations with matching picture/fixed units. Three-lite configurations available in 1/4–1/2–1/4 lite and 1/3–1/3–1/3 equal lite.



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Pinch Fusion Welding

New Generation Vinyl

Warm Edge Technology

Limited Lifetime Warranty

Custom Sizing

Energy Package MAX (EPMAX) upgrade available

GLASS OPTIONS

Advanced Easy Clean

Tempered

GRILLE OPTIONS

$\frac{5}{8}$ " Sculptured GBG (Grilles Between Glass)

$\frac{5}{8}$ " Flat GBG (Grilles Between Glass)

SCREEN OPTIONS

Aluminum Mesh

Solar Block

Optimal Viewing

FACTORY APPLIED FRAME OPTIONS

No fin

Nail fin*

Dual wall flush fin

* Available on Premium and Pro

CASEMENT & AWNING



Casement & Awning Windows. Dressing up your home with European flair has never been so rewarding. With a full 90° sweep, these windows give nature a warm welcome in nice weather. But they work even better at giving bad weather the cold shoulder. Configurations include single, triple and quad integral mulled or factory mulled units with matching fixed units.



FEATURES

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Pinch Fusion Welding

New Generation Vinyl

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Limited Lifetime Warranty

Custom Sizing

Energy Package MAX (EPMAX) upgrade available

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No fin

Nail fin*

Dual wall flush fin

* Available on Premium and Pro

PREMIUM SLIDING DOOR*



Sliding Patio Doors are your home's way of welcoming guests with arms wide open. But when heat, cold, rain, wind or intruders come knocking, this beauty is as tough as nails. Configurations include two and three panel operating units as well as complementary side lites and transoms.



* Pro and Contractor doors are not included in the R-5 Series

FEATURES

HP3_{MAX} triple pane unit with three lites of Low-E, an interior glass substrate and two chambers of argon gas fill

Pinch Fusion Welding

New Generation Vinyl

Warm Edge Technology

Limited Lifetime Warranty

Custom Sizing

GLASS OPTIONS

Advanced Easy Clean

GRILLE OPTIONS

$\frac{5}{8}$ " Sculptured GBG (Grilles Between Glass)

$\frac{5}{8}$ " Flat GBG (Grilles Between Glass)

SCREEN OPTIONS

Aluminum Mesh

Solar Block

Optimal Viewing

Pet Resistant

FRAME OPTIONS**

No fin

Dual wall flush fin

** R-5 Series sliding patio doors come standard with no fin frame construction and have field applied frame options to meet various construction applications.

Windows Siding Stone Veneer Fence+Rail Accents

