



# REGENCY<sup>®</sup> 400 SERIES

CUSTOM VINYL REPLACEMENT WINDOWS

NEXT-GENERATION ENERGY EFFICIENCY





# OUR WINDOWS... YOUR PEACE OF MIND

Visually exciting and powerfully built, Gentek windows will dramatically heighten the style and comfort of your home. Equally important, they will deliver true peace of mind that you have chosen an energy-efficient replacement window from a respected manufacturer. Pride in our products and craftsmanship are at the heart of our commitment to quality. It's what makes our windows among the best in the industry and our service second to none.

Gentek windows are custom-made to your exact specifications and backed by decades of window manufacturing expertise. Engineering, innovation, rigorous testing and stringent quality control are just a few ways that we turn cutting-edge technology into superior windows and satisfied customers. When you choose Gentek windows for your home, you can be assured of the highest levels of performance, beauty and value.





# REGENCY® 400 SERIES

## CUSTOM VINYL REPLACEMENT WINDOWS

Energy-engineered Regency 400 Series replacement windows are expertly crafted to maximize the energy efficiency of your home and reduce energy costs. The ultra-efficient design features an extra-strong 4-1/2" thick fusion-welded frame with the sash positioned closer to the interior part of the wall for improved thermal performance. Multi-chamber construction, triple-layer weatherstripping, insulating glass technology and fusion-welded sashes together provide a powerful barrier against energy loss.

### SUPERIOR PERFORMANCE IS INHERENT IN THE DESIGN

With meticulous attention to every detail, Regency 400 Series merges timeless beauty with best-in-class technology to achieve superior energy efficiency, enduring style, easy upkeep and excellent value.

#### **ORIGIN III™** *Vinyl Technology*

Strength and style are equally integrated in our Origin III premium vinyl. Highly durable and virtually maintenance-free, the vinyl composition also is formulated for low thermal conductivity, which makes it ideal for window manufacturing. Featuring a crisp white colour through and through, the vinyl won't rot, split, corrode or pit like painted wood windows and won't swell or warp from exposure to moisture. Your windows will keep their beautiful appearance season after season, year after year.



Origin III's premium vinyl composition combines style and strength with enhanced thermal performance.

#### **IntegraWeld** *Fusion Welding*

Our IntegraWeld Fusion Welding method produces full-contact welding points for every masterframe and sash corner, resulting in superior strength and a clean, low-spread finished appearance. And, unlike mechanically fastened windows, Regency 400 Series window corners will never work loose or leak air or water.



Accommodating a variety of installation methods, Renovation MasterFrame 400 features a 4-1/2" thick frame for increased energy efficiency and aesthetic appeal.

#### *Renovation* **MASTERFRAME 400**

The extra-strong 4-1/2" thick masterframe on Regency 400 Series windows works double time: it fortifies the structural integrity of the window and accommodates a variety of installation methods and architectural styles.

#### **InnerSet Sash** *Interior Wall Position*

Regency 400 Series has the inside track on energy savings! The innovative window construction positions the sash in the insulated part of the wall, closer to the interior, for improved thermal performance.



The multi-point locking system on our casement windows combines weathertight protection, easy operation and timeless style.

#### **MAXUM33™** *Steel Sash Reinforcement*

Our Maxum33 steel sash reinforcement provides extra strength at the sash meeting rails to help prevent flexing during heavy winds – a valuable component especially during harsh Canadian weather.

#### **Multi-Point** *Locking System*

Integrating design innovations with everyday practicalities, this multi-point hardware system is precision-engineered for smooth and reliable window operation. The sleek and stylish locks hold up to 400 lbs. per lock point and are resistant to insect and light infiltration, further enhancing the trouble-free functionality of your windows.

# PREVENT ENERGY LOSS WITH ULTRA-EFFICIENT GLASS TECHNOLOGY

Windows are roughly 80% glass, so it's essential to choose a glass system that provides insulation from extreme weather yet allows the warmth and beauty of natural light to shine through.



## ENERGYPLUS™ GLASS – DESIGNED FOR NORTHERN CLIMATES

Our EnergyPlus glass is specially formulated with insulating properties that provide superior energy savings. The precision-engineered Low-E (low-emissivity) glass retains heat inside the home during cold winter months and reduces solar heat gain in the summer. Combined with Super Spacer® technology and insulating gas, EnergyPlus can achieve an excellent Energy Rating (ER) for reduced energy use year-round.

Regency windows are available with a variety of EnergyPlus and Solar Shield glass packages to meet the latest ENERGY STAR® performance requirements.

ENERGY STAR is the mark of high-efficiency products in Canada, and windows earning this distinction must meet strict technical specifications for energy-efficient performance. As one of the best choices for preventing heat loss, ENERGY STAR-certified Regency windows can help you save money by cutting your annual heating and cooling energy bills.

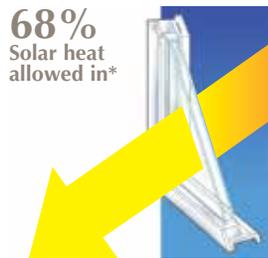
## ENERGYPLUS ADVANTAGES

- Reduces energy costs by retaining heat inside the home, especially during severe Canadian winters
- Keeps homes comfortable all year long; reduces solar heat gain in the summer to help lower your air-conditioning needs
- Ensures even larger windows are more energy efficient

## BEAUTIFUL CLARITY AND NATURAL LIGHT FOR A MORE BALANCED, COMFORTABLE INTERIOR



Allows 78% visible light transmission to brighten the home's interior.



Lets in 68% of the sun's heat to warm the home naturally in winter months.



Improves insulating performance by 42% over double clear glass.



See your Gentek representative for the optimal insulated glass package for your home and climate conditions.

## CUSTOMIZE YOUR WINDOWS

Choose the best glass package to meet the specific climate conditions of your area. Double- or triple-glazed units with the Super Spacer structural foam spacer will provide superior energy efficiency, comfort and value.

## ENERGYPLUS QUATTRO GLASS PACKAGES



- Ultra-efficient, double-glazed system can achieve triple-glazed glass performance.
- Meets new ENERGY STAR requirements; exceptions may occur when certain options are ordered.
- Two surfaces of Low-E technology; reflects heat back into the home interior and significantly increases the Energy Rating (ER) value.

## ENERGYPLUS GLASS PACKAGES

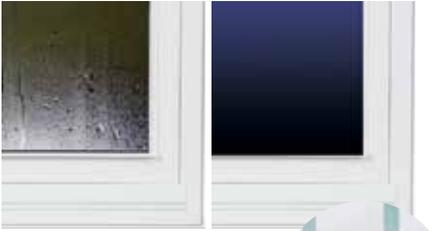
- Double-glazed EnergyPlus glass units (which are standard on Regency 400 Series windows) feature one surface of Low-E glass, insulating argon gas and the Super Spacer structural foam spacer for an excellent Energy Rating.

## SOLAR SHIELD GLASS PACKAGES

- Feature increased solar control to help create consistent indoor temperatures in regions with hot summers and cold winters.
- Block up to 50% more unwanted solar energy than standard clear glass and up to 40% more than even dark tinted glass, resulting in less air-conditioning use.
- Achieve centre-of-glass R-values up to 9, depending on the size and model of the window.



\*Results achieved by testing centre of glass.



The Super Spacer non-metal spacer provides the highest resistance to conduction and eliminates metal-to-glass contact and conduction.

### SUPER SPACER NON-METAL SPACER DESIGN SYSTEM

Another key component to a window's energy efficiency is the spacer system. A spacer creates an insulating air space between the panes of glass, which functions as a thermal barrier. Many windows are constructed with a metal spacer between the panes to give the glass unit structural stability. However, the metal edges conduct cold from the outside of your home at a rate up to 120% higher than at the center of the glass area. This can create condensation problems at the window edge, damaging woodwork and draperies.

Regency 400 Series windows combine a structural foam spacer with a seal of hot melt butyl to create a "warm," non-conductive edge. When correctly installed, Regency 400 Series windows with the Super Spacer system virtually eliminate condensation, provided that proper air circulation and humidity levels are maintained in the home.<sup>†</sup> In addition, the Super Spacer design minimizes the subtle movement of glass panes caused by changes in temperature – helping to prevent seal failure and reducing the stress on the glass.

### COMPARISON OF GLASS EDGE TEMPERATURES AMONG VARIOUS SPACER SYSTEMS<sup>††</sup>

Super Spacer® sealed with butyl  
**42.0°F** 5.6°C

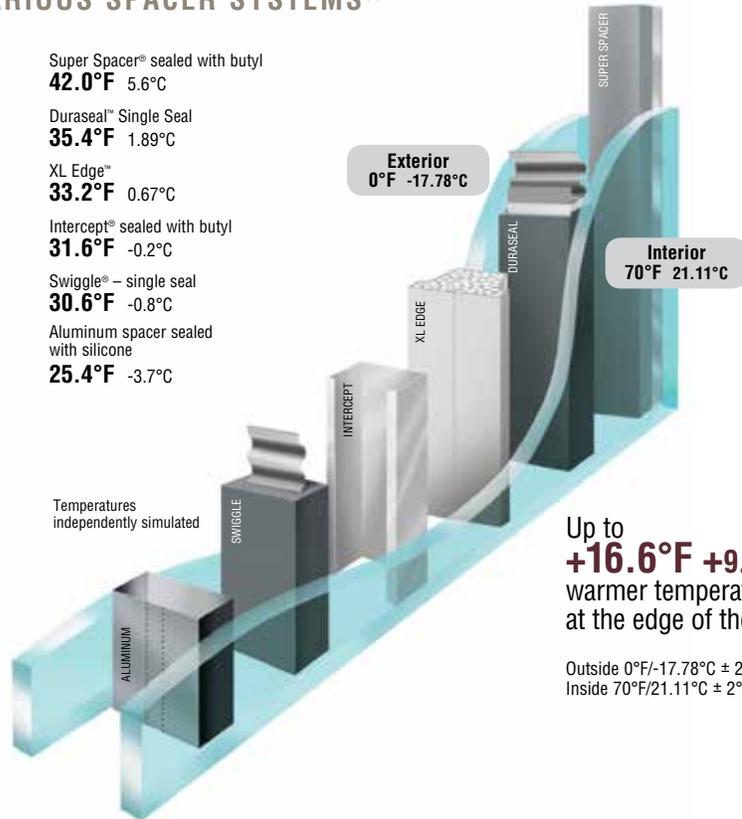
Duraseal™ Single Seal  
**35.4°F** 1.89°C

XL Edge™  
**33.2°F** 0.67°C

Intercept® sealed with butyl  
**31.6°F** -0.2°C

Swiggle® – single seal  
**30.6°F** -0.8°C

Aluminum spacer sealed with silicone  
**25.4°F** -3.7°C



### CHECK THE NFRC LABEL

To compare the energy-saving performance of one window to the next, take a look at the NFRC label. The National Fenestration Rating Council (NFRC) is a non-profit industry organization that is committed to providing accurate, fair and reliable testing data to help consumers, architects and builders compare the energy performance of window and door products. The lower the U-factor (also known as U-value), the less energy you'll need to heat your home. The lower the Solar Heat Gain Coefficient (SHGC), the more you'll conserve on air-conditioning.

	<b>Gentek Building Products</b> Model 3R10A - PVC Window Double glazing Argon + Low E 1938 + Foam spacer	
	<b>ENERGY PERFORMANCE RATINGS</b>	
U-Factor (U.S./F)	Solar Heat Gain Coefficient	
<b>0.30</b>	<b>0.53</b>	
<b>ADDITIONAL PERFORMANCE RATINGS</b>		
Visible Transmittance		
<b>0.59</b>		<b>----</b>
<small>Manufacturer declares that these ratings conform to applicable NFRC procedures for determining whole product performance. NFRC ratings are determined for a fixed set of environmental conditions and a specific product size. NFRC does not warrant any product and does not warrant the suitability of any product for any specific use. Contact manufacturer's website for other product performance information.</small>		

<sup>†</sup>For more information, please see *Your Guide to Common Household Condensation* at gentek.ca.  
<sup>††</sup>Simulations performed by Enermodal Engineering Ltd. using Window 5.2 and Therm 5.2 as per NFRC100-2001. Outside temperature 0°F, inside temperature 70°F. Low-E glass Cardinal Low-E<sup>2</sup> 272. Air spaces .500" wide, 90% argon fill. IGU's 24" x 48". The secondary butyl used with Intercept was 0.035" thick. The conductivity used for Super Spacer Premium was 0.102.

### DID YOU KNOW...

Heat loss and heat gain through windows are responsible for 25%–30% of residential heating and cooling energy use. \*\* ENERGY STAR-qualified Regency 400 Series windows can help lower your energy bills – see your Gentek representative for the window options that work best for your home.

\*\*www.energy.gov/energysaver/design/windows-doors-and-skylights/update-or-replace-windows



# CASEMENT WINDOWS

With casual elegance, our casement windows create a distinctive focal point of quality and comfort. The refined craftsmanship masterfully combines a strong, weathertight construction with classic casement details, including a handsome easy-touch crank handle that gently glides the outward opening of the sash.



Single-lever, multi-point locking system.



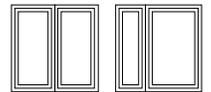
Functional and durable high-performance operating mechanism.



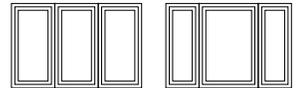
Attractive fold-down handle with nesting cover.

Casement windows can be combined with fixed lites to create a larger window group that offers ventilation.

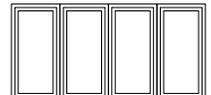
2-Lite T-Mull



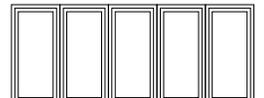
3-Lite T-Mull



4-Lite T-Mull



5-Lite T-Mull





### Structural T-Mull Casement Windows

Casements are available in 2-lite, 3-lite, 4-lite and 5-lite T-mull horizontal configurations. The structural mullion attaches directly to the rough opening, delivering increased strength and stability to the finished installation, even for larger window sizes. Expansive window walls can be created by combining casements, casement fixed windows and awnings.



### PRECISION-ENGINEERED FOR SUPERIOR QUALITY AND ENERGY SAVINGS

- 1 Concealed hinges open 90 degrees (on windows 16" wide or more); exterior glass is easy to clean from inside.
- 2 Hidden exterior accessory groove on the frame and an integrated 1/2" or 3/4" J-channel for installation clip.
- 3 Multi-point locking system.
- 4 Double-glazed 7/8" insulated glass units featuring advanced Super Spacer warm-edge design create an effective thermal barrier to restrict transfer of heat and cold; EnergyPlus glass (soft-coat Low-E and argon gas) offers enhanced energy-efficient technology.  
**Triple-glazed 1-3/8" thick insulated glass unit option for maximum thermal efficiency year-round.**
- 5 Heavy-duty operating hardware crank ensures a tight fit for easy operation.
- 6 IntegraWeld four-point fusion-welded corners add structural strength and increase precision in the frame and sash.

### ADDITIONAL FEATURES

- Premium vinyl frame and sash never need painting and will not rust, peel or corrode.
- Spring bottom-loaded screen design (no pins or tabs) for a snug fit and easy removal and replacement from the interior.
- Full range of vinyl, composite and wood jamb extensions available.

## AWNING WINDOWS

The versatile awning window can transform any room with timeless style and refreshing ventilation. Opening up and out with a convenient crank handle, awning windows pair beautifully with picture windows or architectural shapes to make a larger window design.



Dual jamb locks seal the window tight.



Heavy-duty operating hardware.



Attractive fold-down handle with nesting cover.

Awning windows complement a variety of window applications, while dual locking handles offer a secure, weathertight fit.



**PRECISION-ENGINEERED FOR SUPERIOR QUALITY AND ENERGY SAVINGS**

- 1 IntegraWeld four-point fusion-welded corners add structural strength and increase precision in the frame and sash.
- 2 Hidden exterior accessory groove on the frame and an integrated 1/2" or 3/4" J-channel for installation clip.
- 3 Heavy-duty operating hardware crank ensures a tight fit for easy operation.
- 4 Multiple lock points on awnings over 21" in height.
- 5 Double-glazed 7/8" insulated glass units featuring advanced Super Spacer warm-edge design create an effective thermal barrier to restrict transfer of heat and cold; EnergyPlus glass (soft-coat Low-E and argon gas) offers enhanced energy-efficient technology.

**Triple-glazed 1-3/8" thick insulated glass unit option for maximum thermal efficiency year-round.**

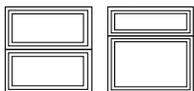
**ADDITIONAL FEATURES**

- Premium vinyl frame and sash never need painting and will not rust, peel or corrode.
- Spring bottom-loaded screen design (no pins or tabs) for a snug fit and easy removal and replacement from the interior.
- Full range of vinyl, composite and wood jamb extensions available.

**Structural T-Mull Awning Windows**

Awning windows also are available in 2-lite T-mull vertical configurations. The structural mullion attaches directly to the rough opening, delivering increased strength and stability to the finished installation, even for larger window sizes. Expansive window walls can be created by combining awnings, casements and fixed casement windows.

2-Lite T-Mull Awning



## SLIDER WINDOWS

Let the sunshine in! With its clean-line design and unobstructed glass area, slider windows make it easy to enjoy a beautiful outdoor view. Expertly crafted sashes are precision-built for smooth and reliable horizontal gliding action, and lift out for easy cleaning.



Built for long-lasting wear and tear, slider windows glide horizontally to open and close.



Each slider window operating lift-out sash features two sets of solid-brass tandem rollers to ensure effortless window operation.



The positive action lock (PAL) ensures easy operation. A simple movement of the locking tab allows the sash to move freely; the PAL system locks automatically when the window is closed.



4 Steel-reinforced interlock.



6 Solid brass tandem rollers.

### PRECISION-ENGINEERED FOR SUPERIOR QUALITY AND ENERGY SAVINGS

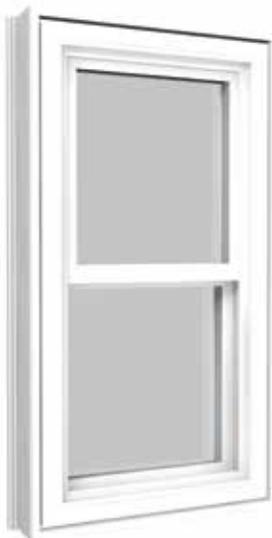
- 1 Hidden exterior accessory groove on the frame and an integrated 1/2" or 3/4" J-channel for installation clip.
- 2 Full-height pull rails for easy operation.
- 3 Double-glazed 7/8" insulated glass units featuring advanced Super Spacer warm-edge design create an effective thermal barrier to restrict transfer of heat and cold; EnergyPlus glass (soft-coat Low-E and argon gas) offers enhanced energy-efficient technology.  
**Triple-glazed 1-1/4" thick insulated glass unit option for maximum thermal efficiency year-round.**
- 4 Steel-reinforced interlock on larger windows with two locks and keepers for snug fit and durability.
- 5 IntegraWeld fusion-welded frame (4-1/2") and sash corners add extra structural strength and increase precision in the frame and sash.
- 6 Operating sash features two sets of solid brass tandem rollers to ensure smooth operation.

### ADDITIONAL FEATURES

- Premium vinyl frame and sashes never need painting and will not rust, peel or corrode.
- Full range of vinyl, composite and wood jamb extensions available.
- Sash vent stops limit opening to 4".
- Colour-coordinated full screen included.

## DOUBLE HUNG AND SINGLE HUNG WINDOWS

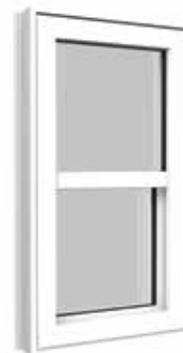
Traditional beauty takes the lead in our double hung and single hung windows. The crisp corners and symmetrical lines of this time-honored design merge with modern technology to give your home an attractive window system that's energy efficient and strong. Double hung windows also offer the added benefit of easy upkeep – both sashes tilt in for convenient cleaning from inside your home.



The sleek exterior frame showcases the classic beauty of the iconic double hung and single hung windows.



The positive action lock (PAL) ensures easy operation. A simple movement of the locking tab allows the sash to move freely; the PAL system locks automatically when the window is closed.



### SINGLE HUNG WINDOWS

Regency 400 Series windows also are available in a popular single hung style, which features a tilt-in bottom sash only.

# REGENCY® 400 SERIES

CUSTOM VINYL REPLACEMENT WINDOWS



## PRECISION-ENGINEERED FOR SUPERIOR QUALITY AND ENERGY SAVINGS

- 1 Hidden exterior accessory groove on the frame and an integrated 1/2" or 3/4" J-channel for installation clip.
- 2 Sash vent stops limit opening to 4".
- 3 Tilt-in sashes allow for easy cleaning of the glass from inside the home (double hung style).
- 4 Steel-reinforced interlock on larger windows with two locks and keepers for snug fit and durability.
- 5 Double-glazed 7/8" insulated glass units featuring advanced Super Spacer warm-edge design create an effective thermal barrier to restrict transfer of heat and cold; EnergyPlus glass (soft-coat Low-E and argon gas) offers enhanced energy-efficient technology.  
**Triple-glazed 1-1/4" thick insulated glass unit option for maximum thermal efficiency year-round.**
- 6 Full-width lift rails for easy operation.
- 7 IntegraWeld fusion-welded frame (4-1/2") and sash corners add extra structural strength and increase precision in the frame and sash.
- 8 Standard pocket sill (welded).
- 9 Easy-lift constant force balance system ensures smooth and easy sash operation.

## ADDITIONAL FEATURES

- Premium vinyl frame and sashes never need painting and will not rust, peel or corrode.
- Tilt-in top and bottom sashes allow safe and convenient cleaning from inside the home (double hung style).
- Full range of vinyl, composite and wood jamb extensions available.
- Colour-coordinated full screen included.



4 Internal Maxum33 steel lineal reinforcement at the sash interlock.

# PICTURE AND ARCHITECTURAL SHAPE WINDOWS

Whether you want to create a dramatic wall of glass or a distinctive element of style – our picture and architectural shape windows will achieve visual excitement with custom appeal. Each window is superbly crafted for enduring beauty and performance to shield your home from inclement weather while infusing the interior with the welcoming ambiance of natural light.



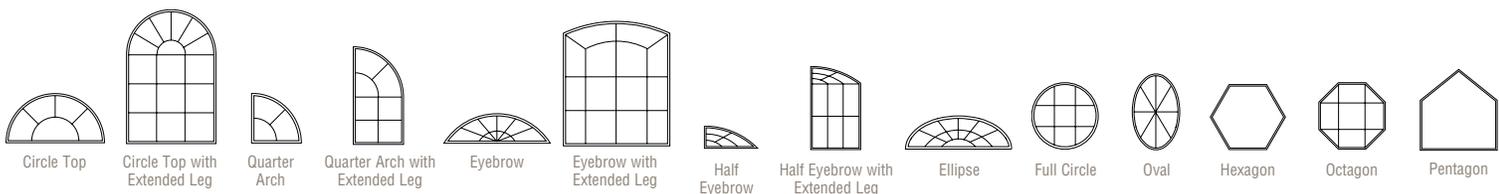
## PRECISION-ENGINEERED FOR SUPERIOR QUALITY AND ENERGY SAVINGS

- 1 IntegraWeld four-point fusion-welded corners add structural strength and increase precision in the frame construction.
- 2 Inner and outer accessory grooves for optional finishing accessories.
- 3 Double-glazed 7/8" insulated glass units featuring Super Spacer warm-edge design create an effective thermal barrier to restrict transfer of heat and cold; EnergyPlus glass (soft-coat Low-E and argon gas) offers enhanced energy-efficient technology.

**Triple-glazed 1-3/8" thick insulated glass unit option for maximum thermal efficiency year-round.**

## ADDITIONAL FEATURES

- Premium vinyl frame never needs painting and will not rust, peel or corrode.
- Combine with awning windows to add ventilation to a larger window group.
- A variety of vinyl and wood jamb extensions are available.



# REGENCY® 400 SERIES

CUSTOM VINYL REPLACEMENT WINDOWS



From circle top and cathedral to octagon and trapezoid, architectural shapes offer a full selection of styles and sizes. See your Gentek Sales Representative for the complete offering.



# DECORATIVE OPTIONS

Your windows not only protect your home, they play a key role in its overall appearance – inside and out. Regency 400 Series windows can be customized with decorative accents to give your home your personal touch. Choose from a wide selection of colours, grids, glass and other accessories to create your ideal finished look.

## FRAME COLOURS

Regency 400 Series windows are available in Nordic White, with the extruded colour formulated throughout the vinyl sashes and mainframe for long-lasting beauty and performance.

For added exterior design options, choose from our 20 standard paint colours that are beautiful, durable and affordable. The interior colour is extruded Nordic White.

Nordic White – extruded	Dover Gray 536
Cream 492	Storm 570
Almond 532	Slate 523
Maize 502	Windswept Smoke 506
Wicker 538	Chestnut Brown 554
Canyon Clay 510	Commercial Brown 562
Pebble 559	Espresso 5P3
Sandalwood 508	Graphite 5P5
Brownstone 571	Iron Ore 5P6
Dark Drift 557	Black 525
Sable 547	

## CUSTOM PAINT COLOURS

Have a special colour in mind for the exterior of your windows? Regency 400 Series windows can be custom painted to match any of Gentek's exterior trim colours, allowing you to achieve a truly upscale appearance for your home. The interior colour is extruded Nordic White.



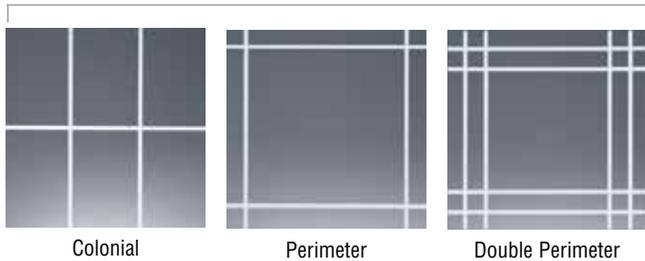
Colours are reproduced by lithographic process and may vary slightly from colours of actual product.

## INTERIOR GRIDS

Interior grids will further enhance the appearance of your windows. First, choose a grid pattern from one of our three styles, then select a grid profile to create the perfect finished look.

Flat and Rectangular grids are available in Nordic White and Pewter. All grids are enclosed within the insulated glass unit for easy cleaning. Please see your dealer for specific options.

### GRID PATTERNS



Colonial

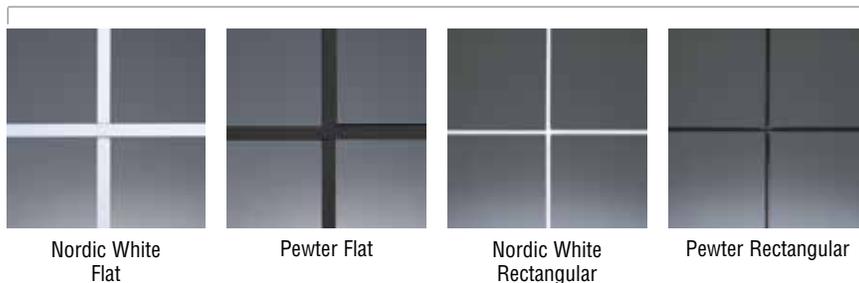
Perimeter

Double Perimeter

### Decorative Grid Pattern Options:

Colonial, Perimeter and Double Perimeter grid patterns are available in Flat and Rectangular grids.

### GRID PROFILES



Nordic White Flat

Pewter Flat

Nordic White Rectangular

Pewter Rectangular

## PAINTED GRIDS

Flat painted grid exteriors are available in Commercial Brown, Pebble, Maize, Black, Wicker Flatstock, Sandalwood, Chestnut Brown, Storm, Windswept Smoke, Sable, Sandstone and Iron Ore. (Grid interior colour is Nordic White.)



### SIMULATED DIVIDED LITE

Available in 3/4" and 2" grille widths in Nordic White and our full selection of painted colours. (Interior colour is Nordic White.)

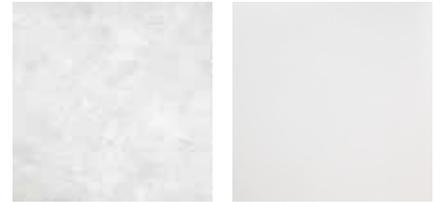
## PRIVACY GLASS OPTIONS

Obscure or opaque-looking glass offers privacy for bathrooms and other areas of your home while allowing an infusion of natural light. Choose from our four glass designs to beautifully complement your room.



Obscure

Niagara



Gluechip

Satin

The images above are created through lithographic process. Please make final glass selection by viewing actual glass samples.

# WINDOW ACCESSORIES

Built for you, Regency 400 Series windows offer a selection of accessories to achieve the ideal finished look, as well as installation ease in a variety of applications.

## **Vinyl Clad Wood Jambs**

The addition of a vinyl clad jamb extension to the interior of the window allows the depth to be expanded from 4-1/2" to 12-1/2".

## **Wood Jambs**

Available in Pine and paint grade; jamb extensions are 5" to 10".

## **Drywall/Wood Returns**

Drywall and wood returns will be built into the frame providing for a snug fit between the window and the drywall or wood. Fits with 1/2" or 3/4" sizes. With the brickmould exterior option and an interior clad jamb extension, the overall depth can be increased to 13-3/4".

## **Factory-Installed Welded Brickmould**

- 1-3/8" BM Snap On with flex – no fin.
- 1/2" BM Snap On with flex – no fin.
- 1-3/8" Integrated BM – with fin (casement and casement T-mull).

## **Integrated Brickmould**

Regency 400 Series casement windows are available with a 1-3/8" integrated brickmould for an overall frame size of 5-3/4". This is beneficial for applications requiring increased strength and security.



## A LIFETIME OF PROTECTION

Our Regency 400 Series windows encompass all of the hallmarks of exceptional window design – superior quality and energy efficiency, along with functional beauty and maintenance freedom. Tested and proven to help cut heating and cooling energy consumption, these next-generation windows are a smart investment in your home and are endorsed by a lifetime limited warranty.



## GREENER PRODUCTS FOR A BETTER WORLD

Conserving energy, reducing waste and recycling materials are just a few ways we can all work together to leave a smaller environmental footprint. As good neighbors to each other and the earth, today's homeowners are happily choosing green.

Gentek proudly offers a wide variety of eco-friendly products. Our Regency 400 Series windows are precision-engineered to deliver superior energy efficiency and help reduce the consumption of fossil fuels needed for heating and cooling homes. As a recyclable material, all in-plant vinyl scrap is reused for other products, further reducing the volume and environmental impact of waste. Vinyl windows and patio doors also boast a long service life and typically weigh less than other substrate window products, requiring less energy consumption during transportation.<sup>1</sup>

<sup>1</sup>The Vinyl Institute. U.S. EPA Inventory of Sources of Dioxin and Dioxin-Like Compounds.

## BRING GENTEK QUALITY HOME

When you choose new windows for your home, you're choosing much more than the frame, sashes and glass – you are choosing the company that stands behind the product.

At Gentek, we are dedicated to providing superior quality and excellent value for you, our customer, and are continually researching and developing innovations that achieve new heights in world-class product performance. We further demonstrate our commitment to excellence through our voluntary participation in rigorous testing and quality assurance certifications from independent agencies.



The American Architectural Manufacturers Association accredits independent laboratories to inspect facilities for compliance with ANSI material and performance standards for windows.



The National Fenestration Rating Council establishes and maintains a uniform energy rating system for the thermal properties of windows.



Super Spacer from Edgetech delivers on the promise of warm air technology.



Windows manufactured by Gentek Building Products with Low-E argon meet the qualifications as specified by the Window Wise Program.



ENERGY STAR qualified products must meet and exceed minimum Canadian federal energy efficiency standards according to a prescribed performance level for each product category.



Gentek Building Products is an active member of the CWDMA and the CSA Certification Program.



Products with the IGMA marking meet the certification performance standards required by the Insulated Glass Manufacturer's Alliance and are subject to independent inspections to verify manufacturer's claims.





## GLOSSARY OF WINDOW PERFORMANCE TERMS

**CR (Condensation Resistance)** An indication of a window's ability to resist condensation. The higher the CR, the less likely condensation is to occur.

**ER Rating (Energy Rating)** A measure of a window's overall performance based on three factors: 1) solar heat gain, 2) heat loss through frames, spacers and glass, and 3) air leakage heat loss. A positive ER rating means the window adds more heat to the home than it loses during heating season. A negative ER rating means the window loses more heat than it gains during heating season.

**Solar Heat Gain Coefficient (SHGC)** The fraction of radiation admitted through a window, both directly transmitted and absorbed and subsequently released inward. The lower a window's SHGC, the less solar heat it transmits and the greater its shading ability. Test results may vary for windows with grids.

**U-Factor (also referred to as U-value)** The rate of heat flow through a glazing system. The lower the value, the better the insulating quality. U-factor can be compared to R-value by dividing 1 by the U-factor. For example, a U-factor of 0.5 equals an R-value of 2.

**Visual Transmission (VT)** The percentage or fraction of the visible spectrum weighted by the sensitivity of the eye, that is transmitted through the glazing. Test results may vary for windows with grids.



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