

# 70 Series

FUSION-WELDED VINYL WINDOWS

BEAUTIFUL, STRONG AND ENVIRONMENTALLY FRIENDLY - WINDOWS FOR THE WAY YOU LIVE

*Beautiful and Strong*



## IT'S AMAZING WHAT WINDOWS CAN DO

Performance-engineered windows protect us from intense heat, frigid cold and a wide range of challenging weather elements, yet allow us to enjoy the warmth and beauty of natural light from the comfort of our home. 70 Series windows deliver all of this and more, including year-round energy savings and classic beauty that's virtually maintenance-free.

### PERFORMANCE BY DESIGN

- 1 Premium vinyl masterframe and sashes are coloured throughout – won't chip, peel, crack or warp and never need to be painted.
- 2 Multi-chambered masterframe and sash construction creates effective insulating spaces for thermal efficiency.
- 3 3/4" thick insulated glass unit with optimal air space improves thermal performance.
- 4 PPG Intercept® Warm-Edge Spacer System helps block the transfer of heat and cold for reduced energy use.
- 5 Interlock at sash locking rail increases strength and reduces air infiltration.
- 6 Metal reinforcement at the locking rail provides rigidity and strength.
- 7 Fully extruded lift rail ensures easy and convenient operation of the sash.
- 8 Drop-in glazing for added energy efficiency and interior aesthetic appeal.
- 9 Full-capture sill enhances protection from air and water infiltration.
- 10 Hidden screen track for added beauty.
- 11 Nailing fin welded at all corners for weathertight installations.

### ADDITIONAL FEATURES

- Fusion-welded frame and sashes for increased strength and structural integrity.
- 2-5/8" frame depth for multiple applications.
- Sash operates on two concealed, pre-calibrated block and tackle sash balances.
- Double-pile weatherstripping at the locking rail for added thermal protection.
- Side-load bottom sash makes cleaning convenient from inside the home.
- Water management system with offset drainage to the exterior.
- Indoor/outdoor removable fiberglass screens.

### INSTALLATION EASE

70 Series windows come standard with a 1-3/8" nail fin. For ideal installations in a variety of applications, four additional options also are offered: 1-3/8" nail fin with J-channel, 7/8" nail fin, stucco fin and a block frame.



70 Series windows are available with a variety of glass options. Your Gentek Sales Representative can help you choose the ideal glass package to meet the ENERGY STAR® requirements for your home and climate zone.



1-3/8" Nail Fin (standard)

1-3/8" Nail Fin with J-Channel

7/8" Nail Fin

Stucco Fin

Block Frame

## OPTIMIZE YOUR WINDOWS' INSULATING POWER BY CHOOSING THE BEST GLASS SYSTEM FOR YOUR HOME AND CLIMATE ZONE

Most windows are about 80% glass, so you'll want to carefully select your glass system to ensure maximum energy savings. Our BarrierXP® glass package combines multi-layered, low-emissivity (Low-E) glass, argon gas\* and the PPG Intercept Warm-Edge Spacer System for increased energy efficiency compared to a standard clear glass unit. Low-E also minimizes damaging UV rays that cause interior furnishings and carpets to fade.

### THERMAL BARRIER SPACER SYSTEMS

Spacer systems not only enhance the thermal performance of a window by blocking the conduction of heat, they also can improve the window's durability and strength. 70 Series offers two spacer options.



**The PPG Intercept Warm-Edge Spacer** features a unique, one-piece metal alloy, U-channel design that reduces heat loss through the window. It's stronger and better at retaining insulating gas than many conventional spacers, and is nearly 25% more effective than a traditional box-shaped spacer at the edge of the glass unit.



**The Optional Foam Spacer** combines a structural foam spacer with a seal of hot melt butyl to create a "warm" non-conductive edge. This non-metal design eliminates any metal-to-glass contact, thereby increasing the edge of the glass temperature by more than 16° – resulting in 60% more energy efficiency than a traditional box metal spacer.

### INCREASED ENERGY SAVINGS WITH BARRIERXP GLASS

BarrierXP insulated glass packages have proven to be far more effective than ordinary clear glass units. The lower the U-factor, 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.

#### 70 Series Glass Performance Comparison<sup>1</sup>

	Single Hung		Slider	
	U-Factor	SHGC	U-Factor	SHGC
BarrierXP LT	0.35	0.33	0.35	0.33
BarrierXP	0.31	0.33	0.31	0.33
BarrierXPsc	0.30	0.22	0.30	0.22
BarrierXP iE	0.30	0.33	0.30	0.33
BarrierXP Plus	0.29	0.33	0.29	0.33
BarrierXPsc Plus	0.29	0.22	0.29	0.22
BarrierXP HSG <sup>2</sup>	0.33	0.56	0.33	0.56

#### Traditional Competitive Products

Single Pane	0.85	0.61	0.85	0.61
Clear Insulated	0.49	0.63	0.49	0.63

<sup>1</sup>Whole window values/single-strength glass.

<sup>2</sup>Whole window values/double-strength glass.

#### Glass Package Terminology

**BarrierXP LT:** Soft coat, multi-layer vacuum deposition Low-E glass and the Intercept Spacer System.

**BarrierXP:** Soft coat, multi-layer, vacuum deposition Low-E glass with argon gas and Intercept Spacer System.

**BarrierXPsc:** Soft coat, SHGC multi-layer, vacuum deposition Low-E glass with argon gas and Intercept Spacer System.

**BarrierXP iE:** Soft coat, multi-layer, vacuum deposition Low-E glass with argon gas and Intercept Spacer System. Carbonized foam insulating liners in select frame channels.

**BarrierXP Plus:** Soft coat, multi-layer, vacuum deposition Low-E glass with argon gas and Foam Spacer System.

**BarrierXPsc Plus:** Soft coat, SHGC multi-layer, vacuum deposition Low-E glass with argon gas and Foam Spacer System.

**BarrierXP HSG:** High Solar Gain Low-E glass with argon gas and Intercept Spacer System.

**Single Pane:** Clear, single-pane unit.

**Clear Insulated:** Clear, double-pane insulated glass unit.



**Winter Energy Savings:** Low-E insulating glass reduces heat loss by reflecting warm air back into your home.



**Summer Energy Savings:** Low-E helps block unwanted solar heat penetration to help cut air-conditioning usage.



#### Raising the Standard with iE Technology

**Next-generation innovations.** BarrierXP iE features carbonized foam liners in select masterframe channels for increased energy efficiency. iE features expanded polystyrene (EPS) with graphite added to the raw material, resulting in a carbonized foam that reflects heat and significantly improves insulation performance.

**Highly efficient material.** Integrated graphite and foam cell structure provides optimal insulation capacity but uses less material.

**Reduced energy consumption.** iE helps lower heating and cooling demands – good for your fuel budget and the environment.







## PICTURE, FIXED LITES AND SPECIAL SHAPE WINDOWS

70 Series picture windows inspire visual appeal while maximizing your outdoor viewing area. Picture windows invite the beauty of outdoors inside – without compromising the comfort and energy efficiency of your home. When you combine picture windows with fixed lites or special shapes, you'll create a focal point that lends distinctive style to your home, both inside and out.

Transform the appearance of your home with eye-catching picture windows.



- Full 45-degree fusion-welded masterframe delivers increased strength and energy efficiency.
- Multi-chambered extrusions improve thermal performance and structural integrity.
- 1" integral pre-punched nail flange for enhanced installation and a weathertight fit.
- 1" thick insulated glass unit with warm-edge technology offers increased energy efficiency and noise reduction.
- Clean-line design creates a larger viewing area.
- Continuous frame on multiple unit configurations helps to enhance aesthetic appeal and thermal performance.

### Model A770 Picture Window\*\*

	Width	Height	U.I.
Minimum	8.5	8.5	
Maximum	95.5	95.5	167

Unit size is 1/2" smaller than rough opening.

### SPECIAL SHAPES



Full Round



Half Round



Quarter Arch



Round Top



Octagon



Pentagon



Trapezoid



Triangle

# SLIDER WINDOWS

Smooth sliding action and full-view glass exposure make 70 Series slider windows a longtime favourite. Slider windows corner the market on easy operation, with a sash that glides horizontally to open and close. The moving sash also lifts out for convenient cleaning from inside your home.

- Full 45-degree fusion-welded masterframe and sashes deliver increased strength and energy efficiency.
- 1" integral pre-punched nail flange for enhanced installation and a weathertight fit.
- 3/4" thick insulated glass unit with warm-edge technology offers increased energy efficiency and noise reduction.
- Integral pull handle for ease of operation when opening and closing the window.
- Double-pile weatherstripping at the locking rail increases thermal performance.
- Adjustable tandem brass rollers in a non-corrosive housing ensures smooth operation.
- Sweep-style cam lock and keeper provides a tight seal and increased energy efficiency.



Boasting a generous glass area, slider windows let you enjoy an unobstructed outdoor view.



### Model A272 Slider Window\*\*

	Width	Height	U.I.
Minimum	20	14.5	
or			
Minimum	29.5	10	
Maximum	71.5	71.5	143

Unit size is 1/2" smaller than rough opening.

### Model A273 Slider Window\*\*

	Width	Height	U.I.
Minimum	47.5	14.5	
or			
Minimum	71.5	10	
Maximum	119.5	71.5	191

Unit size is 1/2" smaller than rough opening.



Optional self-locking Positive Action Lock (PAL) shown unlocked and locked. Window unit closes and automatically locks in one action.

Combining a picture window with a 2-lite slider in a continuous frame (as shown below) delivers clean lines and enhanced thermal performance.





# SINGLE HUNG WINDOWS

Whatever your home's architectural style, 70 Series single hung windows will convey impeccable quality and taste. Built for everyday wear and tear, our single hung windows feature a heavy-duty construction that will stand the test of time.



Single hung windows offer the best of both worlds – classic beauty and modern practicality.



Optional self-locking Positive Action Lock (PAL) shown unlocked and locked. Window unit closes and automatically locks in one action.

- Full 45-degree fusion-welded masterframe and sashes deliver increased strength and energy efficiency.
- Multi-chambered extrusions improve thermal performance and structural integrity.
- 1" integral pre-punched nail flange for enhanced installation and a weathertight fit.
- 3/4" thick insulated glass unit with warm-edge technology offers increased energy efficiency and noise reduction.
- Side load sash operates on two concealed, pre-calibrated sash balances.
- Integral lift handle for easy raising and lowering of the sash.
- Sweep-style cam lock and keeper provides a tight seal and increased energy efficiency.
- Sash perimeters are fully weatherstripped for improved thermal protection.

### Model A571 Single Hung Window\*\*

	Width	Height	U.I.
Minimum	14.5	23.5	
or			
Minimum	10	29.5	
Maximum	47.5	95.5	143

Unit size is 1/2" smaller than rough opening.





## SLIDING PATIO DOORS

Handsome construction combines with a high-performance glass system to deliver casual elegance and year-round comfort to your home. This quality-crafted patio door is a simple luxury you'll appreciate every day, every season. Its smooth and reliable operation, along with a weathertight fit, provides a welcoming entry and lets the natural light shine through.

- Fusion-welded construction delivers long-lasting strength and durability.
- Sturdy 4-1/2" frame depth and 1" wide integral nailing fin with 1-3/8" set back for added structural integrity.
- Stucco fin option also is available.
- 1" thick insulated glass with warm-edge technology.
- Adjustable dual tandem roller system on a stainless steel track ensures easy operation.
- Available in White, Almond or Desert Clay; a Bronze exterior with a White interior also is offered.
- Keyed handle lock and foot lock options.
- Two-, three- and four-panel configurations available.



An integral full-length interlock provides increased strength and protection from energy loss.

## GO GREEN

Exceptionally energy-smart and weathertight, Gentek windows and patio doors not only reduce fuel consumption needed to heat and cool homes, they also boast a long service life and achieve optimal material use and minimal waste in production. Virtually all in-plant vinyl scrap is recycled into other useful products, further reducing the environmental impact of waste. Vinyl windows also are eco-friendly because vinyl resin is derived largely from common salt – a sustainable and abundant natural resource!<sup>3</sup>

<sup>3</sup>Source: A Clear View – Vinyl Windows and the Environment. American Architectural Manufacturers Association (AAMA) and the Vinyl Institute (VI).



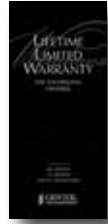
## A WISE INVESTMENT

Like many people, your home may be one of your most important investments. Adding beautiful, low-maintenance windows can improve the curb appeal of your home while boosting its value. In most cases, you can expect to recover more than half of the cost of your replacement windows when it's time to sell.<sup>4</sup>

<sup>4</sup>The U.S. national average of the cost recouped for vinyl replacement windows is more than 72% for midrange and upscale projects, according to *Remodeling* magazine's "2015 Cost vs. Value Report."

## LIFETIME LIMITED WARRANTY

70 Series windows are backed by a lifetime limited warranty – further assurance of lasting performance and genuine value. For complete warranty information,<sup>†</sup> including limitations, ask your dealer for a copy of the 70 Series window warranty.



## DECORATIVE WINDOW OPTIONS

### FINISHES

70 Series windows are available in White, Almond and Desert Clay to complement a variety of exterior designs.



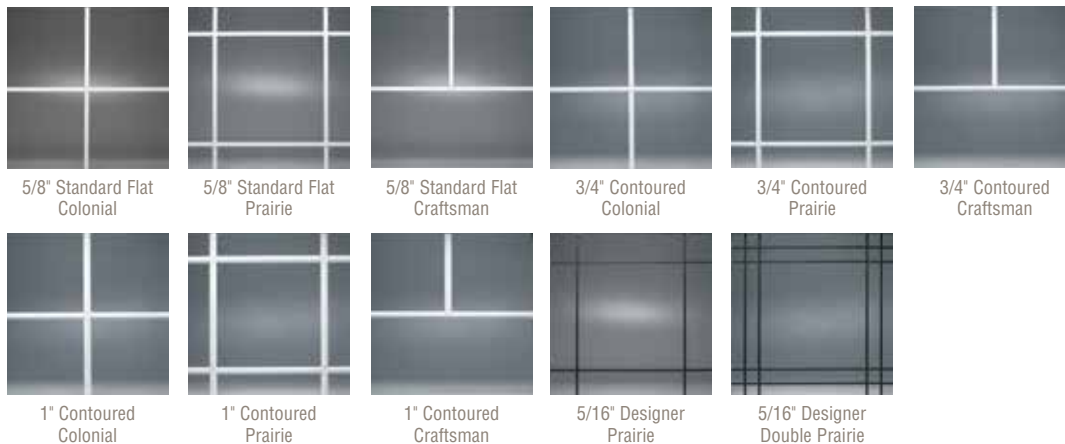
White

Almond

Desert Clay

### INTERIOR GRIDS

Decorative grids will lend style and dimension to your windows. Classic grids are available in White, Almond and Desert Clay. All grid selections are offered in Colonial, Prairie and Craftsman patterns in a 5/8" standard flat grid, a 3/4" contoured grid and a 1" contoured grid. Designer grids also are available to further customize the appearance of your windows.



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*Make us a part of your home.*



<sup>\*</sup>Insulated Glass (IG) units that require capillary tubes may experience some argon gas depletion. <sup>\*\*</sup>Multiple configurations also available. See your Gentek Sales Representative for details. <sup>†</sup>A written copy of the warranty is available by writing to: Warranty Department, PO Box 2010, Akron, Ohio 44309. Colours are reproduced by lithographic process and may vary slightly from colours of actual product. All specifications and designs subject to change without notice. Due to product changes, improvements and other factors, Gentek reserves the right to change or delete information contained herein without prior notice. WARNING: Screen will not stop child from falling out window. Keep child away from open window. The only purpose of the screen is to minimize infiltration of insects. Intercept is a registered trademark of PPG Industries. ENERGY STAR logo reproduced with permission of the Minister of Natural Resources Canada, 2004.