

PGT™ WinGuard®  
VINYL

A LIFE YOU DESIGN.  
THE FREEDOM YOU DESERVE.





Medallion Homes  
Regatta Model  
Bradenton, FL

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Live the life you want *where* you want — a custom detailed home that offers you and your family beauty and peace of mind for years to come. That’s the freedom PGT® gives you.

From the day they’re installed and for every moment you own your home, our impact products stand up to outside elements and give you confidence in your environment, your lifestyle, and your investment.

# Designed to deliver an impact



## INCREASE YOUR HOME VALUE

Most homeowners who install impact doors and windows see significant increases in the value of their homes.

95%

of customers' home value increased — with an average gain of nearly \$34K<sup>1</sup>.



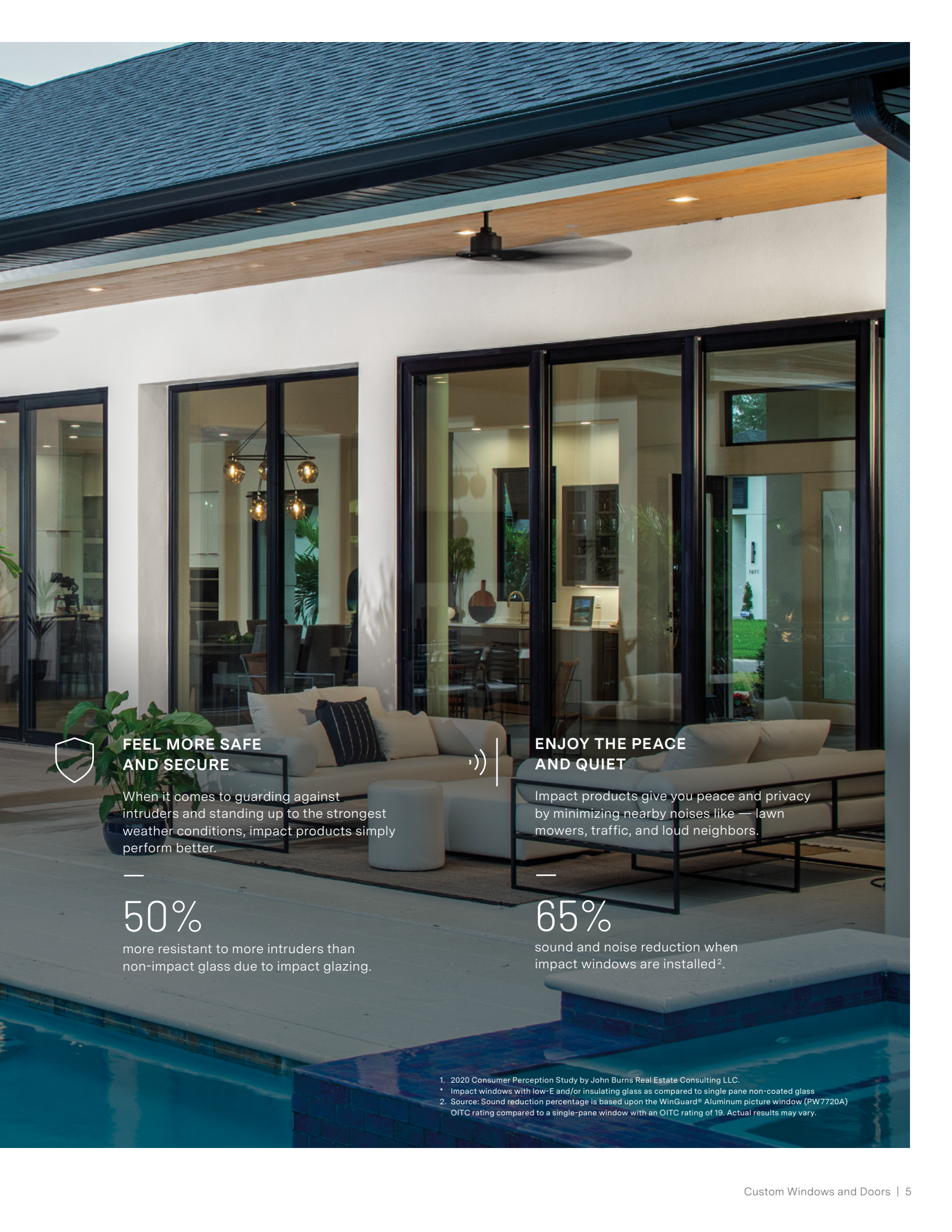
## LOWER YOUR ENERGY AND INSURANCE COSTS

Impact products make your home more energy efficient, reducing energy bills by an average 12%<sup>1</sup>, and lowering insurance costs<sup>2</sup>.

43%

of homeowners saw a reduction in their insurance costs<sup>1</sup>.

Hammock Homes  
Hammock Model  
New Smyrna Beach, FL



### FEEL MORE SAFE AND SECURE

When it comes to guarding against intruders and standing up to the strongest weather conditions, impact products simply perform better.

50%

more resistant to more intruders than non-impact glass due to impact glazing.



### ENJOY THE PEACE AND QUIET

Impact products give you peace and privacy by minimizing nearby noises like — lawn mowers, traffic, and loud neighbors.

65%

sound and noise reduction when impact windows are installed<sup>2</sup>.

1. 2020 Consumer Perception Study by John Burns Real Estate Consulting LLC.  
\* Impact windows with low-E and/or insulating glass as compared to single pane non-coated glass  
2. Source: Sound reduction percentage is based upon the WinGuard® Aluminum picture window (PW7720A) OITC rating compared to a single-pane window with an OITC rating of 19. Actual results may vary.

# Innovation for a lifetime

PGT® has led the impact industry for more than 40 years by improving safety standards, pushing innovation, and delivering superior performance.

## LAMINATED INSULATING GLASS

### LAMINATED GLASS

An interlayer is bonded between two panes of glass to form an incredibly strong glass “sandwich” that functions as a single pane, with additional noise-dampening and security benefits.

### THE INTERLAYER

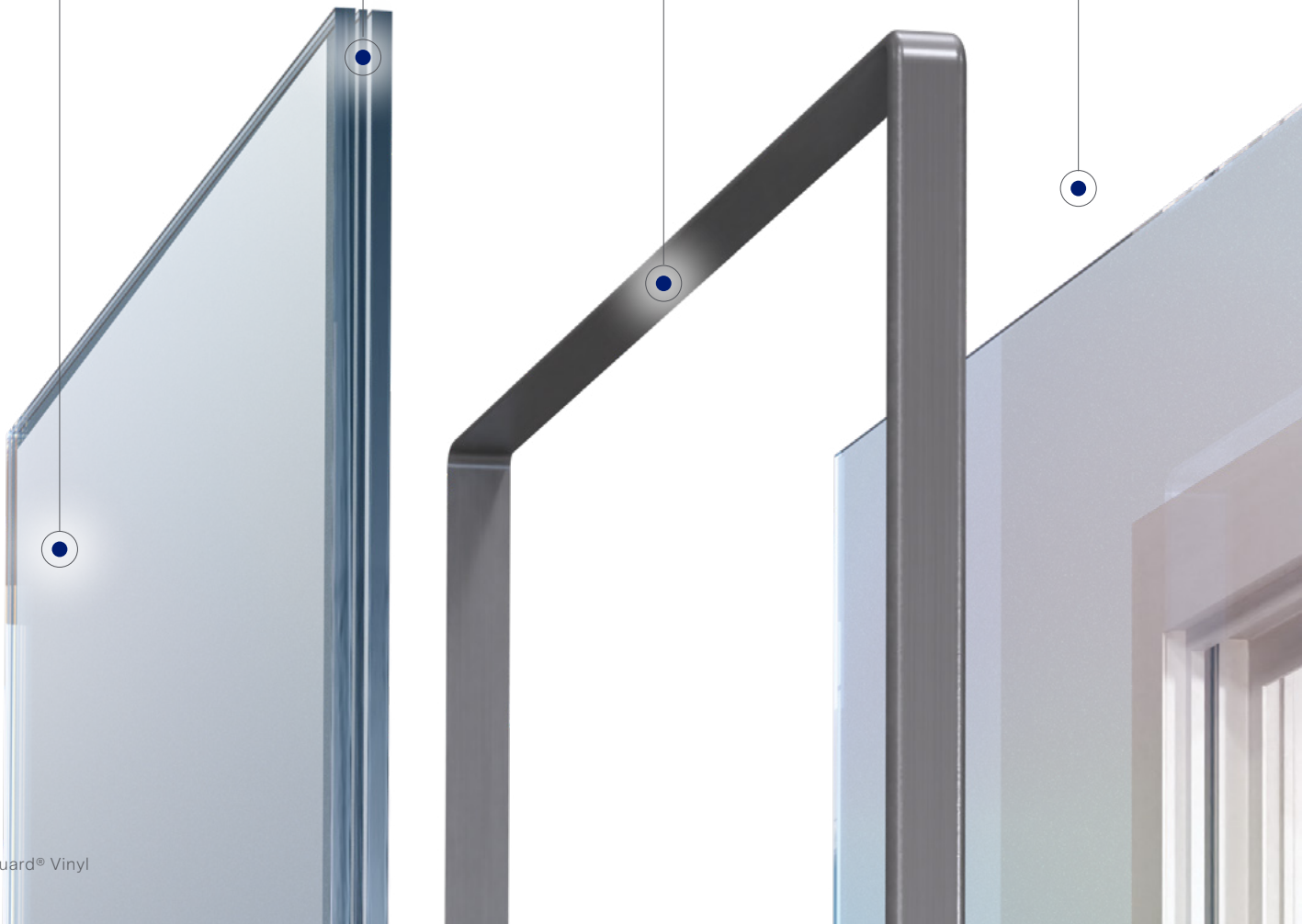
The interlayer is a transparent, shatter-resistant plastic membrane that is remarkably tough and flexible, holding the panes of glass firmly in place even if cracked from the outside. The interlayer also protects furniture and decor against fading and sun damage.

### THERMOPLASTIC SPACER (TPS)

Our unique TPS spacer and sealant system is air-tight, maintaining the thermal insulation and preventing condensation and seal failures.

### INSULATING AIR SPACE\*

The layer between the outside pane and inner laminated glass pane acts as a barrier that slows heat transfer and dissipates sound. Argon gas can be inserted for even greater energy efficiency.





#### **UV PERFORMANCE COATING**

A molecular bonded coating on the glass surface that reduces heat buildup in your home, saving cooling cost.

#### **OUTSIDE PANE\***

Single pane of glass that increases a window's insulating properties while maintaining clear sightlines.

#### **MULTI-CHAMBERED FRAME**

PGT® WinGuard® Vinyl windows and doors feature a multi-chambered frame and warm-edge spacer technology to increase energy efficiency.

With more than 7 million units installed, we're America's authority on laminated glass. Discover more:

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#### **Zero Failures**

Over 7 million units installed with zero reported impact failures – an unmatched record for our industry.

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#### **Best Performing Laminated Insulating Glass**

Zero reported seal failures for 5+ years, compared to industry average of 2% yearly failure rate.

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#### **Significant Sound Reduction**

Significantly reduces exterior sounds in your home with an STC rating of 30–35 depending on the product. Industry standard is STC 26 for single hung windows.

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#### **ENERGY STAR® Options**

Laminated insulating glass offers advanced energy-saving performance. WinGuard® Vinyl has many options to maximize energy efficiency and achieve ENERGY STAR® ratings.

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#### **Hours of Testing**

PGT® WinGuard® Vinyl products endure hundreds of hours of testing to meet or exceed Miami-Dade Building Code requirements.

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#### **Leader in NOA Certifications**

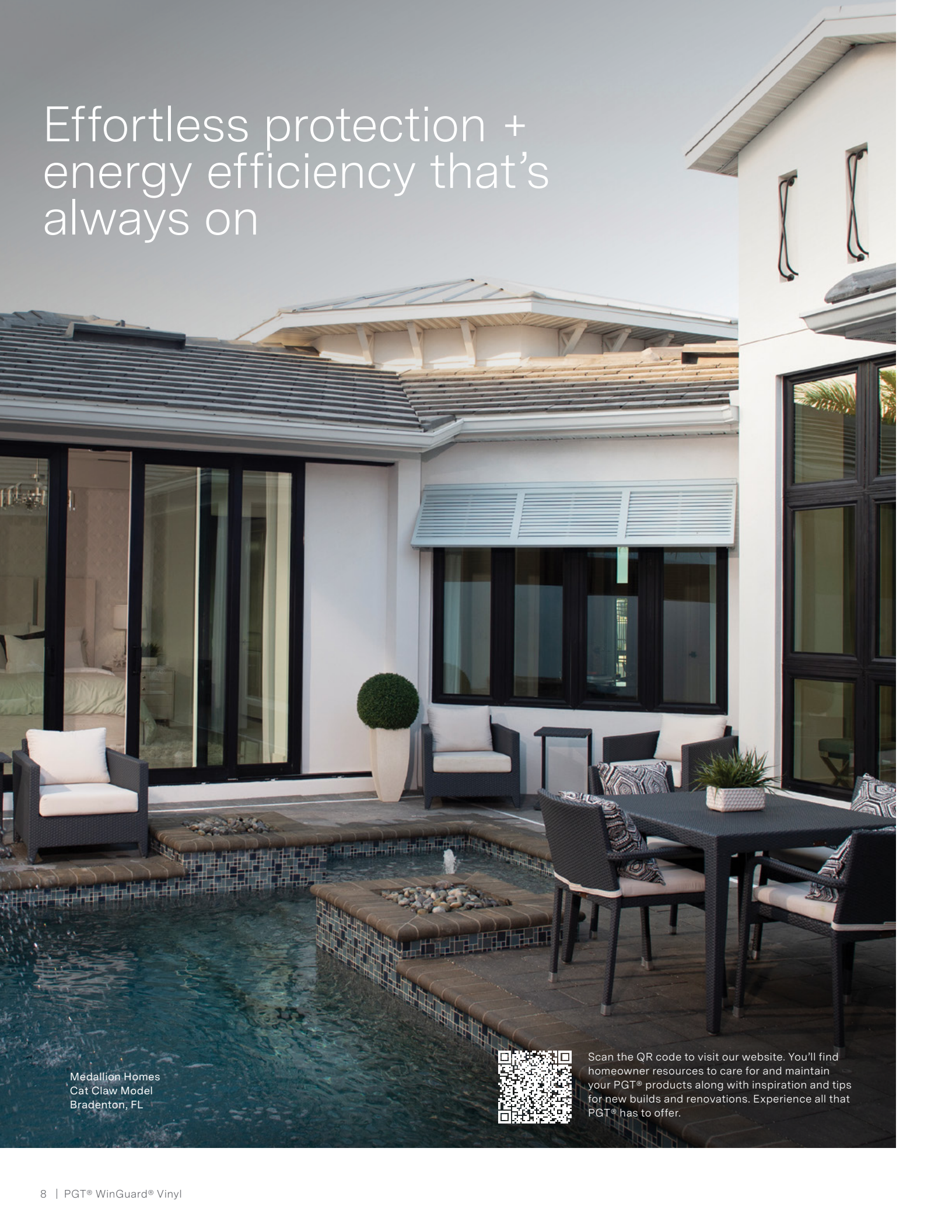
PGT® is a leader in the impact category with 44 Miami-Dade Notices of Acceptance.

#### **Additional Accreditations:**

National Fenestration Rating Council  
Sound Transmission Class (STC)  
Miami-Dade Notice of Acceptance (NOA)  
Florida HVHZ Product Approval  
Texas Department of Insurance  
OITC (Outdoor-Indoor Transmission Class)  
AAMA Tested/Keystone Certified  
International Building Code  
ENERGY STAR®

\*Included with laminated insulating glass packages for highest energy performance.

Effortless protection +  
energy efficiency that's  
always on



Medallion Homes  
Cat Claw Model  
Bradenton, FL



Scan the QR code to visit our website. You'll find homeowner resources to care for and maintain your PGT® products along with inspiration and tips for new builds and renovations. Experience all that PGT® has to offer.

Ready to say goodbye to shutters? Installing PGT® impact products is an investment in your home and lifestyle with everyday and long-term rewards. WinGuard® is engineered for performance.

#### Convenience

PGT® provides effortless impact protection from the moment of installation. Shutters require your presence for timely setup before every weather event.

#### Comfort

PGT® products allow for natural light while significantly quieting outdoor noise during a storm. Shutters darken your home and offer minimal sound protection.

#### Effectiveness

A durable interlayer keeps impact glass within the frame even if struck, shielding your home from flying debris.

#### Service

We're committed to delivering the best service in our industry, making the process from purchase to ownership simple and stress-free.

#### Value

# 80-86%

While the initial investment for impact windows is higher than shutters, the ROI for impact windows ranges from 80% to 86%. Shutters max out at around 40%<sup>1</sup>.

#### Freedom

You get the everyday superior performance of PGT®. — less noise, more security, and lower energy costs — no matter the weather. Shutters are manually removed after every storm.

### IMPACT WINDOWS VS. SHUTTERS AND PANELS

PRODUCT	NO EFFORT REQUIRED	NO STORAGE REQUIRED	NO CHANGE IN HOME APPEARANCE	24/7 SECURITY PROTECTION	24/7 UV PROTECTION	24/7 NOISE REDUCTION	COST EFFICIENT*
PGT® WinGuard® Impact Resistant Windows & Doors	✓	✓	✓	✓	✓	✓	✓
Electric Roll-Down Shutters	×	✓	×	×	×	×	×
Manual Roll-Down Shutters	×	✓	×	×	×	×	×
Accordion Shutters	×	✓	×	×	×	×	×
Lexan Panel Shutters	×	×	×	×	×	×	×
Plywood	×	×	×	×	×	×	×
Fabric Storm Panels	×	×	✓	×	×	×	×

1. Source: 2022 Cost vs Value Report, *Remodeling Magazine*.  
\* Cost efficiencies are gained over the lifetime of a product.

# Elevated style. Designed for customization.

PGT® WinGuard® Vinyl products are engineered for the highest quality and designed to fit any style of home with the most customized glass and frame options available.

We're so sure of their performance, we back our windows and doors with one of the industry's best warranties.



**LIMITED  
LIFETIME  
WARRANTY**

On the frame and insulating glass unit



Many PGT® WinGuard® Vinyl products meet ENERGY STAR® ratings. Talk to your local dealer for more information.

“

*Overall, it's been a good investment. I feel confident in my choices of windows and doors, both for the looks and value of my home.*

– James P., Tampa, FL

## PGT® WINGUARD® VINYL DOORS



### Sliding Glass Door

This smooth operating door will add extra security to your home and let natural light into your living room or master bedroom.

Pages 18-19



### French Door

Pairing elegance and high functionality, this single or double French door can be equipped with European-style hardware and is available with matching sidelites.

Pages 20-21



**Single Hung Window**

Raised from the bottom with a fixed top half, our single hung window offers ventilation and effortless protection in a traditional style that can be used throughout the home.

Page 24



**Double Hung Window**

Removable top and bottom sashes maximize ventilation in your home and make exterior cleaning easier than ever. An ideal match for lanais, patios, and sunrooms.

Page 25



**Casement Window**

**Fixed Lite Casement Picture Window**

The foldaway handles of these windows prevent interference with your curtains. Pair them beautifully with matching Awning and Fixed Lite Picture windows.

Pages 26-27



**Horizontal Roller Window**

Blending modern style and top-notch protection, this easily operated window is perfect for kitchens, bathrooms, and more.

Page 28



**Awning Window**

Designed for use in high spaces, this beautiful-yet-functional window is designed to block rain from entering, while providing outstanding ventilation and light.

Page 29



**Fixed Lite Picture Window**

A non-operable window that enhances the look of living rooms, kitchens, and master bedrooms with maximum, unobstructed sightlines.

Pages 30-31



**Fixed Lite Architectural Window**

Our wide selection of unique shapes and styles will help allow natural light, improve security, and enhance your home's beauty and aesthetics.

Pages 32-33



# CUSTOMIZED TO YOUR EXACT STYLE AND STANDARDS

Each PGT® WinGuard® Vinyl product is built just for you and can be fully customized to live up to your highly unique design vision — without compromise, down to the last detail.

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## FRAME COLORS

Powder-coated frames resist chipping, corrosion, and fading. Custom frame colors are also available. Multi-chambered frame provides outstanding energy savings.

**Black**

**Bronze**

**Beige**

**White**

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## SCREENS

### Fiberglass Screen Mesh



18x16  
Charcoal or Gray

### **BetterVue®** (Optional)

Insect screening with  
Water Shed Technology™



## GLASS OPTIONS

With over 7,200 glazing options possible, you can create the right look for any window shape, size, or style. WinGuard® Vinyl products offer superior energy efficiency and many options to achieve ENERGY STAR® ratings with customized glass options like gas fills, tints, and coatings.

### Argon Gas

*(Laminated insulating glass only)*

Windows can be filled with colorless and odorless argon gas to help insulate a room and minimize the transfer of heat through the window

### Low-E (Emissivity) Glass

High performance coated glass that reflects and filters heat to keep your home comfortable

### Impact Laminated Glass

Laminated glass for effortless impact resistance

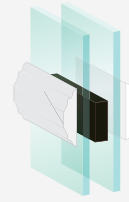
### Impact Laminated Insulating Glass

Highly customizable option that delivers increased energy efficiency and sound dampening

### Privacy Glass

White Interlayer, Obscure glass, Obscure with White Interlayer, or Textured glass options

## GRID TYPES



### Traditional Simulated Divided Lite Grid

7/8" wide raised ogee applied to exterior and interior with 9/16" wide bronze shadow bar



### Flat Grid

9/16" wide or 13/16" wide grid between the glass



### Contour Grid

1" wide grid between the glass

## GLASS TINTS



Clear



Bronze



Gray



Green



Azure Blue



Solarcool® Bronze



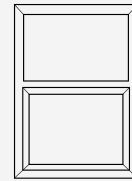
Graylite® II



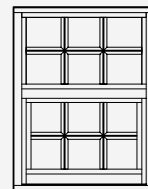
### Turtle Glass

Tinted to reduce light and protect the natural habitat of marine turtles. Ask your dealer to learn more.

## GRID STYLES

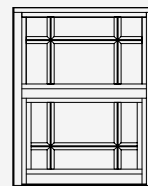


None



Colonial

*(Many options available)*



Brittany / Prairie

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## SLIDING GLASS DOOR HARDWARE OPTIONS

Raised



- White
- Black
- Satin Nickel
- Oil-rubbed Bronze
- Beige

Contemporary



- White
- Black
- Satin Nickel

Curved



- White
- Black
- Satin Nickel
- Beige

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## FRENCH DOOR HARDWARE OPTIONS

Series 100



- Satin Nickel
- Oil-rubbed Bronze

Series 800



- Satin Nickel
- Oil-rubbed Bronze

Contemporary



- Satin Nickel
- Oil-rubbed Bronze

PGT® WINGUARD®

# VINYL DOORS

“

*I have noticed about a 10% saving in my overall utility costs. The combination of impact and insulation has been an investment for the future.*

– James P., Orlando, FL

Medallion Home  
Regatta Model  
Bradenton, FL

# Quality that brings confidence

PGT® WinGuard® Vinyl doors are beautiful and low-maintenance — the perfect complement to a carefree life. You'll feel the premium quality each time you open them and feel fully protected when they're closed.



## Ease of Operation

Heavy-duty hardware and stainless steel rollers provide easy opening



## Low Maintenance

Premium vinyl delivers performance for years to come



## Durable

Sturdy vinyl frame provides superior strength, allowing for larger door sizes



**Sliding Glass Door**  
Preferred Sliding Glass Door  
SGD5570



**French Door**  
Preferred French Door  
FD5555

# Sliding Glass Door



## Ease of Operation

Stainless-steel rollers for smooth and durable movement



## Exceptional Quality

PGT® WinGuard® is #1 in quality patio doors in America\*

## SGD5570

### Preferred Sliding Glass Door

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#### Configurations

- 4.5" Interlock
  - Bypass, Pocket, and Corner
  - Up to 8 panels with expansions of up to 40'
- 

#### Dual-Point Locking System

- Prevents panels from being lifted off the tracks
  - Secures into the door jamb, creating a weather-tight seal with high-security performance and maximum-load resistance
- 

#### Screens

- Standard or heavy-duty
- 

#### Dimensions

- Max panel size: 5'w x 10'h



\* Builder Brand Use Report, 2019

**SGD5570**  
**Track Height Dimensions**

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Standard 1.680" height

Optional 1.5" height allows tracks to be inset at floor level\*

Optional 3.25" and 4" guards against water intrusion

Sill Risers: 2.5", 3.5", 4.0625", 4.625"

\*The 1.5" height may only be used where water infiltration resistance is not required per the building code.

**SGD5570**  
**Roller Options**

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Stainless Steel

Nylon for a quieter option

Steel (*Standard*)



SGD5570 Preferred Sliding Glass Door  
2 panel bypass

# French Door



## Ease of Operation

Heavy-duty hinge supports the weight of the door for easy opening



## Exceptional Quality

PGT® WinGuard® is #1 in quality patio doors in America\*

### FD5555

#### Preferred French Door

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#### Configurations

→ Available as a double French Door style or single French Door (*also known as a patio or terrace door*)

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#### Modular Design

→ Single or double configurations  
→ Optional sidelites and transoms allow design flexibility

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#### 3-Point Stainless-Steel Locking System

→ Provides an unmatched level of strength and security

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#### Prepped for Industry-Standard Hardware

→ Enhances the design of patios, master bedrooms, and more



\* Builder Brand Use Report, 2019



FD5555 French Door  
Double with side-lites and transom

PGT® WINGUARD®

# VINYL WINDOWS



“

*It has made a drastic savings in our utility bill. Having impact-resistant products has proven to be a huge savings advantage.*

– Fitzgerald M., Orlando, FL

John Cannon Homes  
Adelaide Model  
Sarasota, FL

# Beauty and efficiency beyond compare

Add beauty, unmatched strength, and increased energy efficiency to any home design with PGT® WinGuard® Vinyl impact windows. During a storm, these windows will not separate from your home, which can cause pressurization during extreme weather. Each one delivers our signature premium quality and performance, engineered to be durable and worry-free.



## Low Maintenance

Premium vinyl delivers performance for years to come



## Durable

Sturdy vinyl frame with patented corner weld provides superior strength and allows for larger window sizes



## Energy Efficient

Impact windows lower your home's energy bills\*. Can qualify for ENERGY STAR® rating.



**Single Hung Window**  
SH5500



**Double Hung Window**  
DH5560



**Casement Window**  
CA5540  
**Fixed Lite Casement**  
**Picture Window**  
PW/AR5540



**Horizontal Roller Window**  
HR5510



**Awning Window**  
AW5540



**Fixed Lite Picture Window**  
PW5520



**Fixed Lite Architectural Window**  
AR5520

\*Compared to a single pane window. Energy cost savings based on 14.4 yrs Florida average home ownership. Source: energy.gov, valuepenguin.com

# Single Hung Window



### Flexible Design

Custom design configurations with exceptional strength



### Easy Opening

Heavy-duty, pre-tensioned balance system



### Configurations



Equal



Proview



Cottage

### Easy Opening & Closing

- ComfortLift handles
- Various balancing systems for large, small, and heavy sashes ensures effort less operation
- Constant Force or spiral balance system

### Exceptional Strength

- Welded sash corners create a strong seal
- SecureConnect corner keys ensure optimal performance on any sized window
- Aluminum interlock enhances strength on larger sizes/design pressures

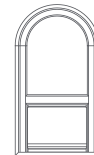
### Hardware Options

- Vent latch allows fresh air in without opening window completely
- Window Opening Control Device that delivers a deeper level of safety and security (Certified to ASTM F2090\*)

### Sash Options



Single hung radius top with equal sash



Single hung arch top with proview/oriel sash

\*Window opening control devices are designed to meet the ASTM International (formerly known as ASTM - American Society of Testing and Materials) Standard Specification for Window Fall Prevention Devices with Emergency Escape (Egress) Release Mechanisms.

# Double Hung Window



## Enhanced Security

Impact glass resists intruders and features a low-profile sweep lock



## Easy Opening

Heavy-duty, pre-tensioned balance system



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## Configurations



Equal



Preview



Cottage

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## Easy Opening & Closing

- ComfortLift handles
- Various balancing systems for large, small, and heavy sashes ensures effort less operation
- Constant Force or spiral balance system

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## Removable Sash Design

- Clean the exterior part of the window more easily

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## Exceptional Strength

- Welded sash corners create a strong seal
- SecureConnect corner keys ensure optimal performance on any sized window
- Aluminum interlock enhances strength on larger sizes/design pressures

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## Hardware Options

- Vent latch allows fresh air in without opening window completely
- Window Opening Control Device that delivers a deeper level of safety and security (Certified to ASTM F2090\*)

\*Window opening control devices are designed to meet the ASTM International (formerly known as ASTM - American Society of Testing and Materials) Standard Specification for Window Fall Prevention Devices with Emergency Escape (Egress) Release Mechanisms.

# Casement Window



## Easy Ventilation

Opens on either left- or right-hand side



## Added Security

Best performing option for extreme weather and built with innovative multi-point locking system



CA5540 Casement Window

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## Modular Design

- Available in single, double, or triple unit for versatile left or right opening
- Pair with a matching Awning and Fixed Lite Casement Picture Window for design flexibility

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## Multi-Point Locking System

- Provides added strength and security

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## Exceptional Strength

- TrueHold hinge ensures durable sash operation on larger windows

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## Hardware

- Foldaway handle won't interfere with window treatments
- Washable hinge for easy cleaning from inside the home
- Window Opening Control Device that delivers a deeper level of safety and security (Certified to ASTM F2090\*)

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## PW/AR5540 Fixed Lite Casement Picture Window/ Architectural

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### Fixed (Non-Operable) Window:

- Allows flexibility in design for multiple window configurations
- Suitable for most bedrooms and living spaces
- Works well as a standalone or companion window
- Matching Casement and Awning Windows available
- Available in a variety of architectural shapes and sizes

\*Window opening control devices are designed to meet the ASTM International (formerly known as ASTM - American Society of Testing and Materials) Standard Specification for Window Fall Prevention Devices with Emergency Escape (Egress) Release Mechanisms.



CA5540 Casement Window and PW5540  
Fixed Lite Casement Picture Window  
Black Frame

# Horizontal Roller Window



## Design Versatility

Available in 2- and 3-lite configurations



## Easy Opening and Closing

Made with tandem stainless-steel bearings



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## Configurations

- Equal Lite
- Unequal Lite

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## Exceptional Strength

- Welded sash corners create a strong seal
- SecureConnect corner keys ensure optimal performance on any sized window
- Aluminum interlock enhances strength on larger sizes/design pressures

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## Low-Profile Sweep Lock

- Adds an extra level of security
- Maximizes the view

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## Removable Sash Design

- Clean the exterior part of the window more easily

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## Hardware Options

- Vent latch allows fresh air in without opening window completely
- Window Opening Control Device that delivers a deeper level of safety and security (Certified to ASTM F2090\*)

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AW5540

# Awning Window



## Hinged at the Top

To keep out rain but allow light and ventilation



## Custom Configurations

Can be mullered vertically or horizontally



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## Modular Design

- Individual vent units can be mullered vertically or horizontally
- Matching Casement and Fixed Lite Casement Picture Windows

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## Hardware

- Foldaway handle won't interfere with window treatments
- Multi-point locking system adds an extra layer of strength and security

# Fixed Lite Picture Window



## **Design Flexibility**

Pairs with other window shapes for a custom look. Great for creating a wall of windows.



## **Abundant Sunlight**

Allows for the perfect view and natural light to fill the space



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## **Fixed (Non-Operable) Window**

- Works well as a standalone or companion window
- Allows flexibility in design for multiple window configurations

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## **Modular Design**

- Many matching window options available
- Enhances the look of living rooms, kitchens, and master bedrooms
- Individual units can be mullered for a variety of shapes and sizes to create a unique vignette that's custom to your home
- Many popular grid options available. Check with your local dealer.



PW5520 Fixed Lite Picture Window

White frames

PW5520 Fixed Lite Picture Window  
White frames

# Fixed Lite Architectural Window



## Visual Appeal

Available in an array of interesting shapes and can be customized to order



## Abundant Sunlight

Allows natural light to fill the space

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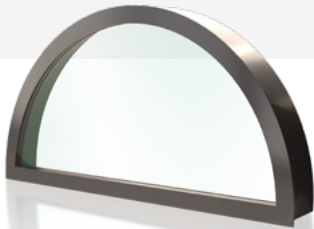
## Fixed (Non-Operable) Window

- Works well as a standalone or companion window
- Allows flexibility in design for multiple window configurations

---

## Modular Design

- Many matching window options available
- Enhances the look of living rooms, kitchens, and master bedrooms
- Individual units can be mullered for a variety of shapes and sizes to create a unique vignette that's custom to your home
- Many popular grid options available. Check with your local dealer.



Half Circle



Octagon



Circle



Trapezoid



Arch



Eyebrow

Popular Architectural shapes shown.

Ask your dealer for details on custom shapes and sizes.



AR5520 Fixed Lite Architectural Window  
4 Unit Trapezoid



AR5520 Fixed Lite Architectural Window  
4 Unit Trapezoid

# What makes our impact resistant products so worth the investment?

It's the safety and quiet you'll enjoy the day they're installed. It's the peace of mind knowing you're protected against unpredictable conditions. And it's the money you'll save and gain — in reduced energy bills and increased home value.

PGT® delivers those benefits and returns on your investment like no one else.



John Cannon Homes  
Adelaide Model  
Sarasota, FL

## PARTNER SPOTLIGHT

PGT® is proud to feature properties of impeccable design and function using our products. Get inspired or find out more about our partners.



Scan the QR code to learn more about our partners and how you can benefit.



The homes shown in this brochure are a collaboration with the PGT Corporate Builder Program.

## GLOSSARY

**Argon Gas** — A safe, odorless, colorless, non-toxic, non-flammable inert gas that is commonly used in place of air between the glass panes of an insulated Low-E glass unit to reduce temperature transfer.

**Corrosion Resistant** — Refers to how well a substance can withstand damage caused by oxidization or other chemical reactions.

**Design Pressure** — Wind load pressure, expressed in pounds per square foot (psf).

**ENERGY STAR®** — An independent U.S. government program that establishes a standard set of guidelines to recognize the energy efficiency of various products. ENERGY STAR® guidelines are used in conjunction with a variety of building materials, including windows and patio doors.

**Florida Product Approval** — A statewide approval system that requires manufacturers to submit testing and engineering data to ensure certain building components meet Florida Building Code standards.

**Forced-Entry Resistance** — The test methods intended to establish a measure of resistance for window assemblies subjected to attacks, other than by impact.

**Impact Resistant** — Shatter-resistant glass. When the glass breaks, the shattered pieces will adhere to the interlayer.

**Insulating Glass** — Window panes separated by an air- or other gas-filled space to reduce heat transfer.

**Interlayer** — A shatter-resistant plastic membrane sandwiched between two panes of glass.

**International Building Code** — A model building code developed by the International Code Council that has been adopted throughout most of the United States.

**Laminated Glass** — Two panes of glass bonded together with a strong, clear interlayer.

**Laminated Insulating Glass** — Comprised of three panes of glass: two panes bonded together with a strong, clear interlayer and one pane for added insulation.

**Large-Missile Impact** — Test used on windows and doors in which a 9-lb. 2' x 4' is propelled at a speed of 34 mph onto test subject.

**Low-E (Emissivity) Glass** — Glass with a transparent, metallic oxide coating applied onto or into a glass surface. The coating typically allows short-wave energy to pass through but reflects long-wave infrared energy, which improves the U-value.

**Miami-Dade Notice of Acceptance (NOA)** — A certification method controlled by Miami-Dade County that requires products to be tested to the TAS testing protocols.

**Monolithic Glass** — A single pane of glass casting using one glass thickness.

**National Fenestration Rating Council (NFRC)** — A non-profit organization that provides energy performance ratings on windows, doors, skylights, and attachment products.

**Privacy Glass** — Glass that has been made translucent instead of transparent.

**Sea Turtle Protection Code** — Protects sea turtles along the Florida coastline during nesting season by restricting the amount of light permitted through windows and doors.

**Sound Transmission Class (STC)** — An integer rating that provides an estimate of the sound insulation performance of an interior building partition (such as a window or door) between indoor spaces. The higher the number, the less sound is transmitted.

**Tempered glass** — Treated glass that is strengthened by reheating it to just below the melting point and then suddenly cooling it. When shattered, it breaks into small pieces. Approximately four times stronger than standard annealed glass; is required as safety glazing in patio doors, entrance doors, sidelites, and other hazardous locations. It cannot be recut after tempering.

**Ultraviolet (UV)** — The invisible rays of the spectrum that are outside of the visible spectrum at its short-wavelength violet end. Ultraviolet rays are found in everyday sunlight and can cause fading of paint finishes, carpets, and fabrics.

**Window Opening Control Device** — A device that limits the opening of a window sash to a predetermined position. The device includes a release mechanism that shall allow the sash to be fully opened and that automatically resets when a window is fully closed.



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