INSUL TEC

500 Series by OKNA Windows

OKNA

DOUBLE HUNG

Full 3¼" Depth uPVC Fusion Welded Frame and Sashes
Features beveled colonial exterior curves that are not only beautiful, but also allows for maximum welded surfaces, resulting in outstanding strength and years of long-lasting performance.

Sill Dam Wall
Mortised into the jamb, the sill dam wall adds strength and lowers the possibility of leaks that may occur at corner seals.

Fully Integrated Lift Rail
Gives this window a nice, contemporary look and ease of operation.

The secret behind this window's performance is its exceptionally low air infiltration ratings which can lower the energy consumption of a typical home by 25–40%. This unique feature, combined with our HeatSeal® Glass System or SunSeal® Glass System, offers outstanding thermal performance and exceeds the most rigorous energy requirements.

DOUBLE HUNG & SLIDER

Simple Reliability

Standard slim profile sash lock with tamper-resistant cam ensures a much smoother turn and increases the life cycle over traditional locks. Push button spring-loaded vent latches allow both window sashes to remain partially open for ventilation. Decorative tilt latch for easy tilting. WOCD now available as an upgrade. Upgrade to our optional Almond finish and hardware from our standard Euro-White within Insul-Tec | 500 Series.

Please see Optional WOCD Latches on opposite page.

Push Button Spring-Loaded Vent Latches

Vent latches not available on laminates.

Slim Profile Sash Lock

Fully Integrated Lift Rails

Balance System (Double Hung)

PowerLift (Block-and-Tackle) *balance system used in our windows can achieve life cycles as high as 28,000 cycles. Constant Force commonly used by other window manufacturers only achieves 5,000 cycles.**

** Based on test performed by BSI Hardware-Amesbury Group*

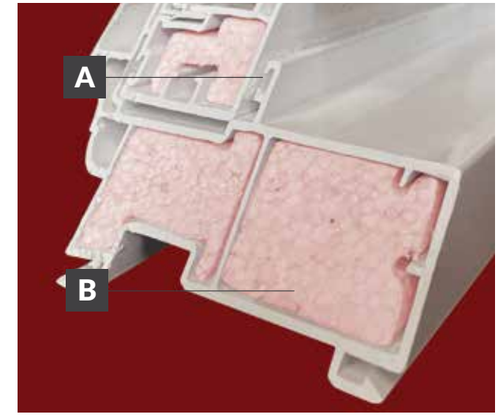
Options

HARDWARE Options

Almond available at additional charge.

Euro-White
Standard Finish & Lock

Almond
Optional Finish & Lock



A Weatherstripping
A key component to this interlock, helping to provide an airtight seal.

B Multichambered Extrusion
Improves thermal efficiency.

Optional WOCD (Window Opening Control Device)

As of 2018, more states are adapting this feature into their window manufacturing and installation regulations. When activated, the device will allow the window to be opened no more than four inches. If you would like to open the window fully, you can deactivate the device and when you close the window the device automatically reactivates.

Available in White and Almond.

Only available on Double Hung windows.

SLIDER

- **Full 3¼" Depth uPVC Fusion Welded Frame and Sashes**
  Beveled colonial exterior features curves that are not only beautiful, but also allows for maximum welded surfaces, resulting in exceptional strength and years of long-lasting performance.
- **HeatSeal® Glass System**
  Offers thermal efficiency for fuel cost savings in any season.
- **Heavy Gauge Fully Extruded Handles on Both Sashes**
- **Standard Slim Profile Sash Lock & Tamper-Resistant Cam**
  Smoother turn and increased life cycle over traditional locks.
- **Standard Smooth Glide System**
  High-quality brass wheels allows for smooth glide across tracks.
- **Full Integral Interlock with Double Weatherstripping**
- **0.09 cfm/ft2 Air Infiltration for Sliding Window**
  222% better than Industry Average.
- **Available in Double & Triple Panel Configurations**
- **Available in Replacement & New Construction Applications**

Fiberglass Mesh Half Screens
Standard on all windows. All painted exterior windows come standard with a full screen.

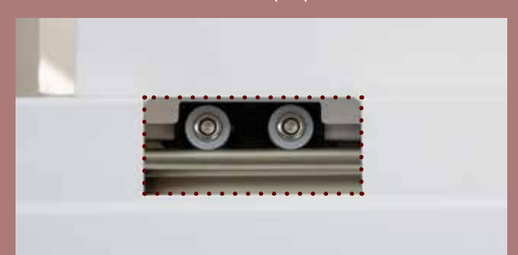
Push Button, Spring-Loaded Vent Latches
Allows both window sashes to remain partially open for ventilation.

Smooth Glide System
Standard

High quality brass wheels allow the slider to smoothly glide across its track.

EZ Glide System
Optional

This system contains an anodized aluminum track and precision ball-bearing wheels for smoother glide and operation especially with oversized and triple pane units.



CASEMENT

- **Full 3¼" Depth uPVC Fusion Welded Frame & Sashes**
- **A Progressive Multipoint Locking System** allows for a weathertight seal by drawing the sash firmly and securely to the master frame. The multipoint locking system also offers added security by providing additional points of reinforcement on the window.
- **OKNA Casement Windows** open fully for maximum ventilation and easy cleaning from inside the home.
- **Coastal Hardware** available for coastal regions.

AWNING

Our Awning windows offer a sleek, contemporary look and are practical in areas with obstructions. They can be used individually and as part of multiwindow configurations.

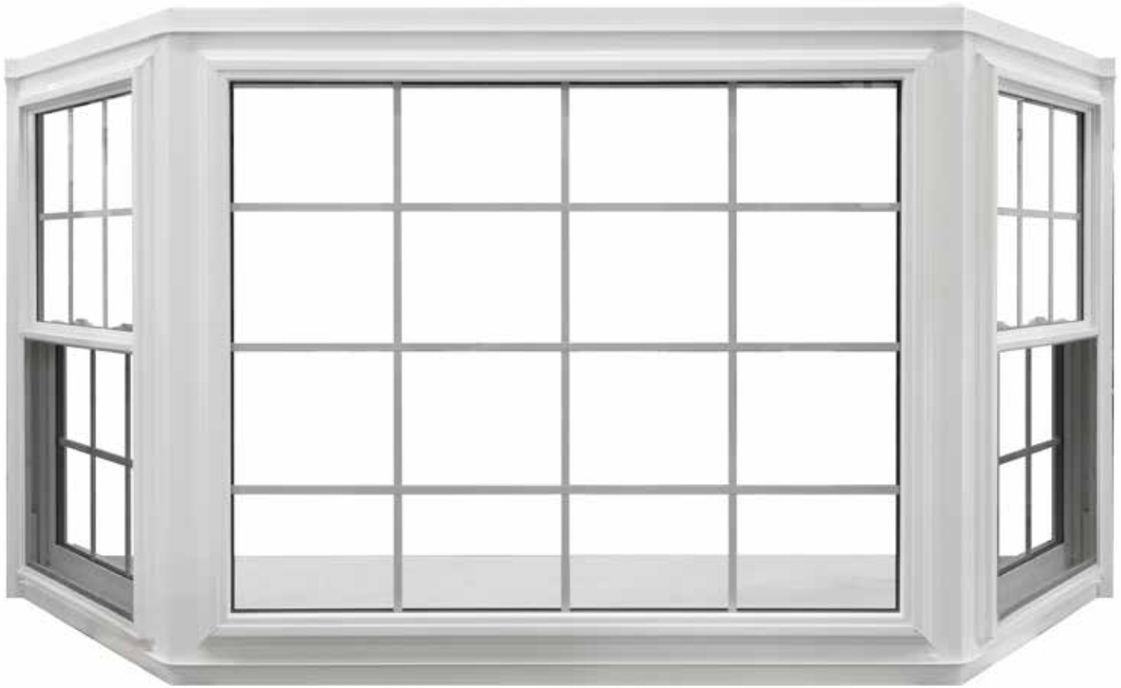
HARDWARE Options (Casement & Awning)

Casement & Awning windows come standard with a folding crank handle. Not only do they minimize the interference with blinds and other window treatments, but they also add that extra wow factor to complete your window order! OKNA Euro-White windows come standard with Euro-White hardware, with the option to choose Almond at additonal charge.

Euro-White
Standard

Almond
Standard on Solid Almond

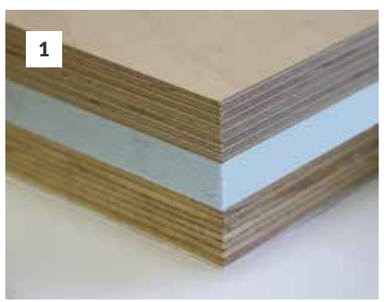
BAY & BOW



Superior Construction

No other manufacturer has a greater commitment to quality than OKNA Windows. Our new, redesigned Bay & Bow Windows have incorporated the latest innovation in fenestration technology to provide a window that is energy efficient, functional, and beautiful.

- **2" Insulated Head and Seat Board** with Furniture Grade Veneer and Standard 1 ¼" jamb. (Img 1)
- **Water Penetration Barrier** below each window and mullion (Img 2)
- **Silicone Free Interior and Exterior** (Img 3)
- **Standard Foam Insulated Mullions with Threaded Steel Rod** (Img 4)



Myriad of Configurations

Bay & Bow Windows are one of the most popular ways to give your room more light and space without adding square footage. These windows lend charm and beauty to any room. They are ideal for creating eating nooks, bath surrounds, and mini greenhouses.

When it comes to Bay & Bow Windows, OKNA Windows really does have it all and it's because our Bays & Bows are made to order. For the side units of your Bay & Bow Windows, you can choose from 4 different degree angles to achieve the look you desire. Once you've chosen the angle, we can build Bay or Bow Windows in an endless variety of sizes.

CASEMENT= CA PICTURE=PW DOUBLE HUNG=DH

BAY

30°	45°	30°	45°	30°	45°	30°	45°
CA-PW-CA	CA-PW-CA	DH-PW-DH	DH-PW-DH	CA-CA-CA-CA *(Custom)*	CA-CA-CA-CA *(Custom)*	DH-DH-DH-DH *(Custom)*	DH-DH-DH-DH *(Custom)*

BOW

10°	10°	10°	10°	*15°*	15°	*15°*	15°
CA-PW-CA *(Custom)*	PW-CA-CA-CA-PW	PW-PW-PW-PW-PW	CA-CA-PW-CA-CA	CA-PW-CA *(Custom)*	PW-CA-CA-CA-PW	PW-PW-PW-PW-PW	CA-CA-PW-CA-CA

GARDEN

- **Fully Welded, Rigid uPVC Vinyl Frame** for greater strength and stability.
- **Aluminum and Steel Reinforcements** in the front mullion.
- **The Multipoint Locking System** provides a tighter seal and added security.
- **Twin Sealing/Fully Screened/ Operating Casements** with external glazing for improved weather protection.
- **Glass Shelf with Steel Support System** is available for units over 42".
- **Window Shipped Completely Assembled** for easy installation.

PATIO

ELEGANTE

The Elegante | 8800 Patio Doors are an ideal solution for adding light to any room while making the most of limited space. Available in replacement and new construction applications, this elegant design combines the security of structural integrity and the comfort of energy efficiency. A host of options increase the versatility of this product. Elegante Patio Doors are available in Standard Euro-White and Optional Almond.

Standard 2-panel unit widths include 59¼", 71¼", & 95¼").

FORESTER

The perfect blend of beauty and functionality. Our Forester | 8200 Patio Doors combine our incredible structural and thermal performance features while maintaining the traditional look of a true wood door. This door is built using a butt-joint weld, showcasing traditional joinery with the benefits of advanced fusion welding. Forester is available in Standard Euro-White and Optional Almond.

Standard 2-panel unit widths include 59¼", 71¼", & 95¼").

PANORAMA E F

4 PANELS • CENTER-OPENING • MULTIPOINT LOCKING SYSTEM

Panorama joins the Patio Door Collection, offering a center-opening, 4-panel unit for replacement or new construction applications, with Multipoint Locking System that provides four locking points for increased security. Panorama is available with ELEGANTE 9000PD corner welding (E, above) or FORESTER 9200PD butt joints (F, below), for a traditional true-wood appearance.

Catalogue 4-panel unit widths include 107¼", 115⅝", & 139⅝". Maximum custom width 144". Maximum custom height 96". Standard Multipoint Locking System and Euro-White hardware.

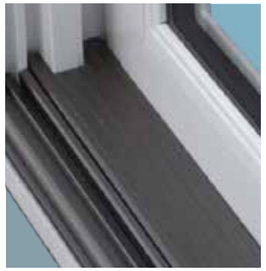
TAKE A GOOD, LONG

LOOK

PATIO

FEATURES | OPTIONS | SIZING

FEATURES & OPTIONS FOR ELEGANTE, FORESTER, PANORAMA E F, & UNLESS OTHERWISE NOTED.



Anodized Aluminum Track/Threshold
Screen track, roller track, and threshold for increased strength, durability, and longevity along with an elegant appearance.

Interlocking Meeting Rail
System with quadruple weatherstripping for controlling infiltration of air, water, dust, and noise. Full-length heavy gauge reinforcements in meeting rails and pull rail provide great rigidity and strength.

Thermally Welded Main Frame
Multichambered and thermally welded 5⅝" main frame provides superior strength and thermal insulation. Optional foam-filled, insulated extrusions provide better thermal efficiency.

Precision-Bearing Tandem Rollers
Operating panels are equipped with adjustable, precision-bearing tandem rollers for smooth and quiet operation.

Merit Lock System

Our standard is a classic patio door handle that will match any home decor.

Intuition Lock System

The ergonomic ONE-MOTION operation allows unlock/open in a single fluid motion.

Euro-White
Standard

Almond
Optional

Euro-White
Standard

Almond
Optional

Coastal hardware available for coastal regions.

Exterior Hardware

We offer two options for exterior hardware on your patio door, locking and non-locking*.

If you have a custom exterior color on your patio door, we will pick one of the hardware options to best match the color.

Exterior hardware selections are available in the following colors:

Euro-White

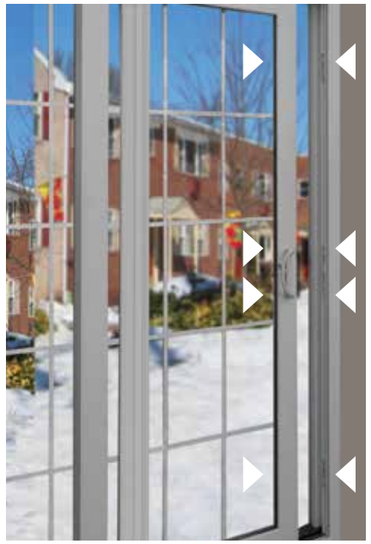
Almond

**4-Panel Patio Doors automatically use locking exterior hardware with their standard Multipoint Locking System.*

Multipoint Locking System
Optional

OKNA Patio Doors come with the option of upgrading to a Multipoint Locking System*, with four locking points for added security. The Multipoint Locking System is used with locking exterior hardware only.

**Multipoint Locking System are standard with 4-panel Patio Doors.*



Foot Lock
Optional

Our push button spring-loaded foot lock is easy to lock and can be set to allow ventilation while having extra security. Available in:

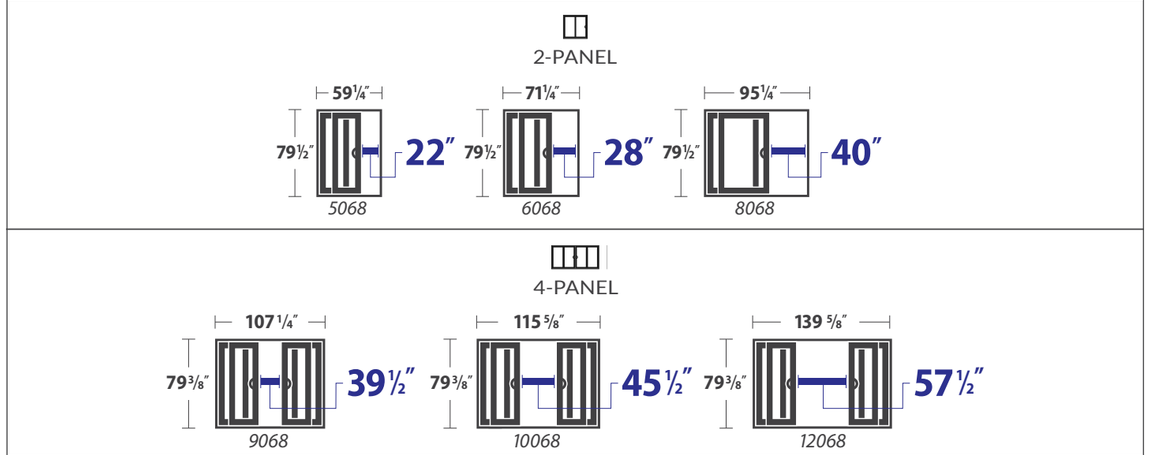
Euro-White **Almond**

Retractable Mini Blinds
Optional

Installed between the glass, retractable Mini Blinds allow light and privacy control by raising, lowering, and adjusting tilting.

Available on Elegante and Forester Patio Doors, for 5' & 6' only.

CATALOGUE SIZES & CLEAR OPENINGS



Diagrams may not be to exact scale.

Options

COLOR Selections

Insul-Tec | 500 Series offers standard Euro-White and optional Almond, to give your home a distinct look. We also offer seven optional exterior stock colors and custom exterior colors from a virtually unlimited selection of paints. Our paints are environmentally safe and durable, giving your exterior a vibrant and long-lasting color finish.

Solid Color

Same Interior and Exterior Colored Vinyl

Euro-White
Standard

Almond
Optional

Exterior Painted Colors *Optional*

Almond	Sandstone	Terra Brown	Cocoa	Basic Brown	Bronze	Nicol's Black	Custom Colors
Optional	*Optional**	*Optional**	*Optional*	*Optional**	*Optional*	*Optional**	*Optional*

** Surcharge applied for painted screens.*

All colors except Euro-White are available at an additional charge. All painted Double Hung and Sliding Windows must have a full screen. Printed colors may not match the product's color. Please visit a local dealer to view color samples.

Specialty Glass *Optional*

OKNA offers specialty glass in a variety of distinctive choices that add visual interest to any design while offering variability in light control. Shown below is our Obscure textured glass. With a range of options at your fingertips, you can find the glass choice for your application and aesthetic, from traditional to modern. Here are available glass options:

Textured
For increased privacy

Tempered
For increased strength

Laminated
For increased impact resistance and noise reduction

Custom Configuration
For more aesthetic choices

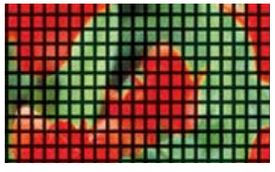
Obscure

Screens

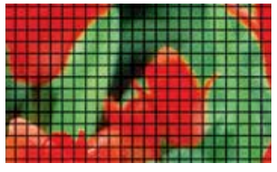
ThruVision Plus® is our fiberglass improved visibility screen. This product does for windows and doors what high-definition technology has done for television viewing; it improves the view by making it sharper and more vivid.

OKNA Windows offers a standard half screen with a heavy duty handle for easy operation. We also offer an optional locking half screen, which has the benefit of always keeping your screen locked in place. A full screen is also available.

All exterior painted windows must have full screens.



Industry Average Screen



ThruVision PLUS®
Standard on all OKNA Products

Standard Half Screen
Standard on all OKNA Products

Locking Half Screen
Optional

Patio Door Pet Screen *Optional*

"Pet Screen" is seven times stronger than traditional insect screening and offers excellent outward visibility. Ideal for those areas prime for potential damage and heavy wear in high-traffic areas.

Available on Patio Doors only.

Grids *Optional*

GBG (Grids Between Glass) are available for windows and for patio doors, consisting of aluminum bars sealed in the insulating airspace between the two panes of glass. Because the interior and exterior glass surfaces are not affected, cleaning your windows is a much easier task. GBG grids on two-tone windows are available with matching interior and exterior colors.*

** Nicol's Black available in Euro-White two-tone 11/16" Contour Grid ONLY. Custom Colors are not available for GBG.*

TYPE

5/8" Flat
(GBG) Euro-White/Euro-White & Almond/Almond Only.

11/16" Contour
(GBG)

13/16" Flat
(GBG) Euro-White Only.

1" Contour
*(GBG) *Double IGU Only, Euro-White Only.*

PATTERN

Colonial

Prairie

Diamond
Available only with 5/8" Flat (GBG).

The Glass Unit

The glass unit is one of the most important elements of your new window. It is about 90% of the whole window. Your decision will dramatically affect your living comfort and expenses for many years.

Examples of Condensation

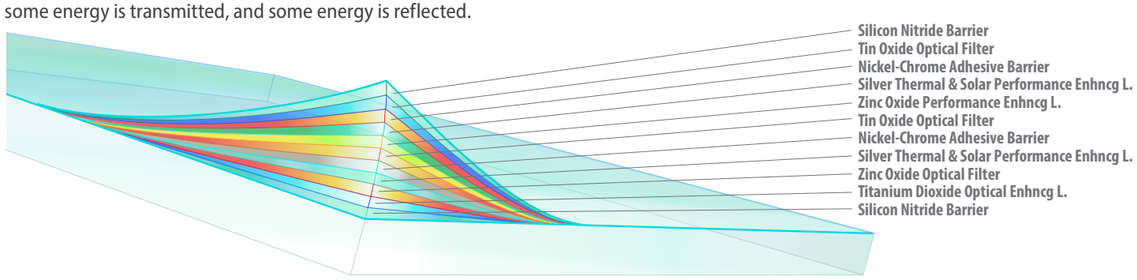
Excess condensation will cause water, ice, and mold to collect on your windows. A good quality spacer can significantly reduce the risk of condensation and its aftermath.

Metal Spacer

Warm Edge Spacer

High Performance Reflective Glass Coatings

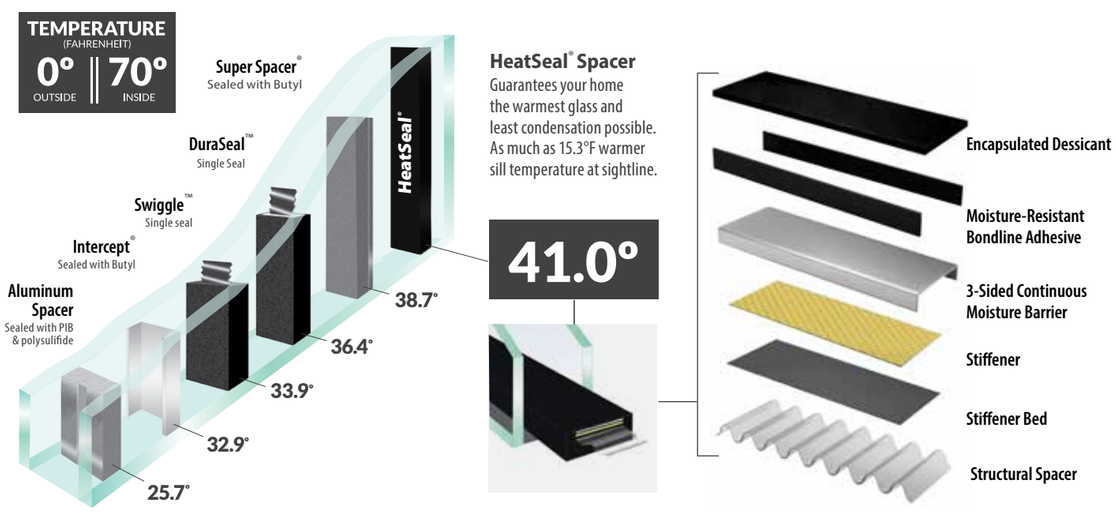
HeatSeal® heat reflective glass coatings are microscopically thin layers of metal & metal oxide that act like a filter – some energy is transmitted, and some energy is reflected.



High Performance HeatSeal® Spacer

The glass panes are separated by a spacer. A spacer is the piece that is located between panels of glass in an insulating glass system. Its main function is to seal the gas space between them. The majority of windows, unlike OKNA Windows, are made with metal spacers. The main disadvantage to metal spacers is energy loss and condensation.

Our HeatSeal® Spacer and sealant system is made with six individual non-metallic components. Produced in a controlled factory setting the spacer comes ready to use, out of the box; no assembly and no adding other components. Used in OKNA's state-of-the-art robotic assembly line, our spacer is applied with a one-step process where units are sealed using heat and compression. Our HeatSeal® Spacer guarantees your home the warmest glass and least condensation possible.



Super Spacer® is a registered trademark of Edgetech I.G., Inc/ • Intercept® is a registered trademark of PPG Industries, Inc.DuraSeal is a registered trademark of TruSeal Technologies, Inc. Swiggle is a registered trademark of TruSeal Technologies, Inc. Simulation performed by Enermodal engineering, Ltd. using Window 5.2. All air spaces are 0.562" wide 0.033 emittance low-E glass.

Glass Options

When deciding on what glass package to choose, keep your environment in mind. Do you live in an area that it is mainly sunny and warm, or one that has cold and warm weather? No matter what the answer is, we have a glass coating available to fit your needs. Our HeatSeal® glass is perfect for areas that tend to have fluctuating temperatures in the seasons. It helps to keep the warm air in during the winter and protect your home from the heat of the sun in the summer. For those who deal with warmer climates throughout the year, our SunSeal® glass will help block the heat from sunlight to keep your house cooler.

Clear Glass

HeatSeal® Coated Glass

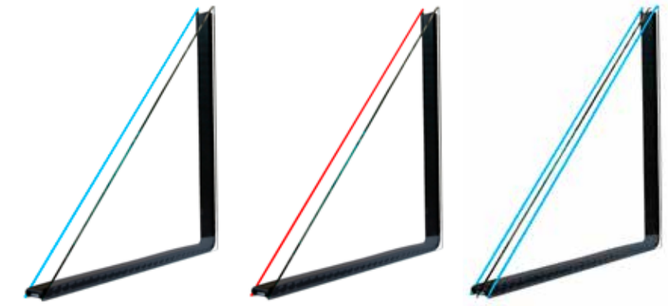
SunSeal® Coated Glass

(AR) Argon Gas

(KR) Krypton Gas

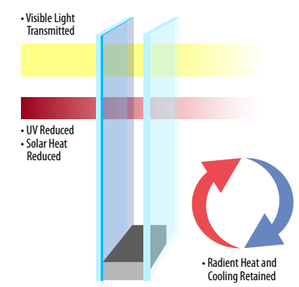
(DP) Double Pane

(TP) Triple Pane

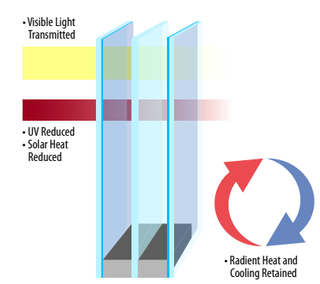


	Clear Glass	HeatSeal® (DP) (AR)	SunSeal® (DP) (AR)	HeatSeal® Triple Glass (TP) (AR)	HeatSeal® Triple Glass (TP) (KR)
U-Factor *Measures the rate of heat transfer and tells you how well a window insulates.*	√	√√√	√√√	√√√√	√√√√√
Solar Heat Gain Coefficient *How well a window blocks heat from the sun.*	√	√√√	√√√√√	√√√√	√√√√
Visible Light Transmittance *The amount of visible light that comes through a window.*	√√√√√	√√√√	√√√	√√√	√√√
UV Protection *How well a window protects against ultraviolet rays.*	√	√√√	√√√√	√√√√√	√√√√√

HEATSEAL® GLASS

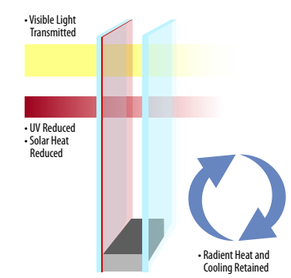


HEATSEAL® TRIPLE GLASS



In climates where heating and cooling are the primary concern, HeatSeal® Glass products are designed to take advantage of free solar heat, resulting in higher inside glass temperature. Passive solar and thermal insulation reduce the draft sensation caused by cold glass surfaces, providing windows that reduce heating costs.

SUNSEAL® GLASS



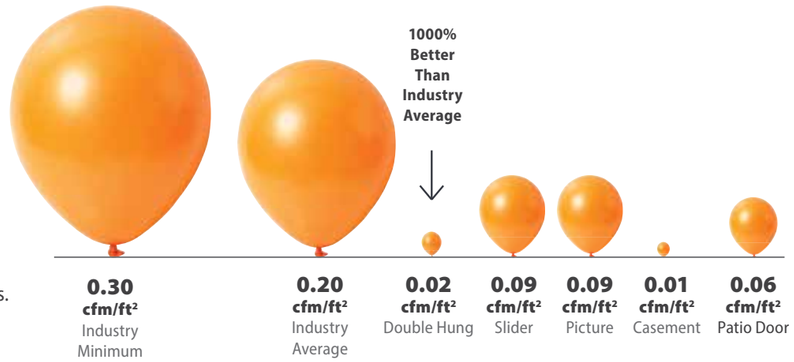
In climates where cooling is your main concern, SunSeal® Glass products are designed to reduce solar heat while still providing color neutrality. This solar control property, combined with thermal insulating benefits, results in beautiful, natural-looking glass that helps keep air conditioning costs low.

When you purchase a window or patio door that is advertised as the most energy efficient, you want to be sure the claims are based on facts, certified by a truly independent and objective authority. Their unbiased test results educate purchasers allowing them to make a more educated choice.

Air Infiltration

Air Infiltration/drafts is a term used to describe the air leaking into or out of your home through the window frames. The graph shows the amount of air in cubic feet that may come through the window at speeds of 25mph.

The results are based on a tested window sample by AAMA testing window guidelines. Title of Test & Method: Air Infiltration - ASTM E 283 75 PA - (1.6 psf) 25 mph.



STRUCTURAL PERFORMANCE

	Industry Minimum	DH500	SL520
NAFS Rating Residential Grade Performance for air/water/structural.	R15	**R50**	**R40**
Air Infiltration (cfm/ft2) at speeds of 25mph.	0.30	**0.02**	**0.09**
Water Penetration (mph) 8" per hour.	33	**54**	**59**
Structural Integrity Design Pressure (DP) Wind (mph) durability before breaking.	94mph	**171mph**	**153mph**

Numbers are subject to change depending on size of window.

All OKNA windows and doors meet rigorous North American Fenestration Standard (NAFS). Certification is performed by **The Keystone Certification Program** that is ANSI-accredited to ensure that our products are manufactured as represented by their certifications, which are based on tests performed by accredited laboratories in accordance with the AAMA/WDMA/CSA 101/IS2/A440 – North American Fenestration Standard (NAFS). The NAFS standard defines a rating scale for fenestration product performance, and requires that components used in window & door assemblies also meet stringent component standards. Certification includes annual inspections to ensure the factory quality management system also meets rigid standards - that translates to homeowner peace of mind.

Look for the OKNA Window's and Patio Door's Gold Keystone Certification Label

The ENERGY STAR Most Efficient designation is an extension of the ENERGY STAR brand and is designed to recognize and advance the most efficient products among those that qualify for the ENERGY STAR. This recognition is offered for specific categories and awarded for a specific year. The goal of this effort is to encourage new, more energy-efficient products into the market more quickly by targeting early adopters.

Each year, EPA will establish criteria for specific product categories to earn Most Efficient recognition. Products that are recognized as ENERGY STAR Most Efficient must already qualify for the ENERGY STAR label.

OKNA Windows products within this series have been recognized as the **Most Efficient of ENERGY STAR 2024**.

OKNA

OKNA Windows are backed by the Lifetime Transferable Limited Warranty.
Please ask your certified dealer for details on coverage.

WARRANTY PROTECTED

THERMAL PERFORMANCE PACKAGES

HEATSEAL® DELUXE

uPVC FRAME
FRAME & SASH FOAM FILL
LOW-E GLASS
3/4" DOUBLE PANE IGU
ARGON GAS (90)
No Grids

HEATSEAL® TRIPLE DELUXE XR9

uPVC FRAME
FRAME & SASH FOAM FILL
LOW-E GLASS
15/16" TRIPLE PANE IGU
ARGON GAS (90)
No Grids

HEATSEAL® TRIPLE DELUXE XR10

uPVC FRAME
FRAME & SASH FOAM FILL
LOW-E GLASS
15/16" TRIPLE PANE IGU
KRYPTON GAS (90)
No Grids

SUNSEAL® DELUXE

uPVC FRAME
FRAME & SASH FOAM FILL
HIGH PERF. GLASS
3/4" DOUBLE PANE IGU
ARGON GAS (90)
No Grids

THERMAL PERFORMANCE

Please use the QR code or the text link to access the most up-to-date thermal performance numbers for the 500 Series, Casement, and Patio Doors.
Numbers are based off of windows tested without grids.

DOUBLE HUNG	SLIDER	PICTURE	CASEMENT	PATIO DOOR	PATIO DOOR
DH500	*SL520*	*PW510*	*CA700*	*8800PD/8200PD*	*9000PD/9200PD*

XR9: Triple pane glass, 15/16" XR10: Triple pane glass, 15/16" XR13: Triple pane glass, 1-3/16", PD Only XR14: Triple pane glass, 1-3/16", PD Only XR15: Triple pane glass, 1-1/16"
AG: Argon Gas KR: Krypton Gas
Numbers are based off of windows tested without grids.
The results are based on a tested window sample by AAMA testing window guidelines. Title of Test & Method: Air Infiltration - ASTM E 283 75 PA - (1.6 psf) 25 mph.

OKNA

All illustrations, photographs, and specifications in this publication are based on the latest product information available at the time of printing. Some windows shown with optional features. See actual product for complete accuracy. The manufacturer reserves the right to alter or discontinue any model or specification without notice. Printed colors may not match the product's actual color. Please visit a local dealer to view actual color samples.

ENERGY STAR

MANUFACTURED PROUDLY IN ★AMERICA★

NFRC National Fenestration Rating Council

08/2024

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