

## BUILT NORTH IN THE EAST FOR THE NORTHEAST

*Backed by 4 generations of our family  
serving you since 1946.*



### ECOLGY

- Low Energy Consumption
- Smaller Carbon Footprint
- Durable, Sustainable Materials



### ECONOMY

- Lower Energy Bills
- Low Ownership Cost
- Best-of-Class Warranty



### COMFORT

- Low Air Infiltration
- High-Tech UV Protection
- Outstanding Sound Reduction





### Energy Star

All Ecoshield Windows exceed all Energy Star standards for windows and sliding doors.



### AAMA Durability

Frames and components are built to the stringent specifications of the American Architectural Manufacturers Association.



### NFRC

America's leading window rating agency gives Ecoshield Windows their top rating for energy efficiency.



## The Ecoshield Windows Story

*Ka-Kel Windows are designed to live in harmony with your world. The high-efficiency design cuts energy costs dramatically. The low maintenance construction fits well with busy lifestyles. And with a best of class warranty, Kas-Kel Windows are guaranteed to work beautifully for years.*

## Ecology. Economy.

*Kas-Kel Windows offer the best of both worlds, with a durable, high-performance design that meets or exceeds all Energy Star standards.*

## Ultra-High Performance

*Our optional Energy Star U-4 and Energy Star III Glazing Packages meets or exceeds all current Energy Star standards. It can lower the average home energy bill by 30 to 40 percent and cut CO2 output by 1,600 pounds per year\*.*

## Fabricated for today's generation.

*Kas-Kel Windows offer a wide array of styles and casings to accommodate almost any design. Exceptional fit and finish, along with outstanding thermal performance have made them a popular choice among quality builders and homeowners, and they're backed by the best warranty in the industry.*

*Our Windows are made in the Northeast for the Northeast backed by 4 generations of our family – serving you since 1946.*

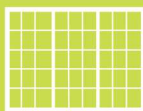
**MADE IN AMERICA**



\* Courtesy Truseal Technologies



Casement



Patio Door



Half Round



Bay/Bow



Double Hung



Rolling



Specialty Shape

# 2200 Replacement Double Hung

*Our Most Popular Replacement Window!*

## Classic design with Modern Utility

By design this window combines the beauty and performance you would expect to find in premium windows. Multiple point locking system with a clean fold away handle speaks volumes about our Casements. Configured with single or multi-unit combination for maximum ventilation. *Fabricated for today's generation.*

### NFRC Thermal Performance Data\*

GLAZING	U-FACTOR	SHGC	VLT	CR	ZONE
Energy Star U4	0.25	0.27	0.48	47	NC
Energy Star III	0.29	0.37	0.51	59	NC
Low E w/ Argon	0.28	0.28	0.51	63	NC
High Perf. Low E	0.32	0.28	0.51	58	N, NC
Clear	0	0	0	-	NC

\*contact us to see thermal data with grids.

**KAS-KEL REPLACEMENT WINDOWS WILL OFFER YOU A LIFETIME OF WORRY-FREE OPERATION, BACKED BY ONE OF THE BEST WARRANTIES IN THE INDUSTRY.**



## Features

	STANDARD	OPTION
<b>MATERIALS</b>	High-grade PVC delivers exceptional strength and thermal performance. White or Beige Interior	<input checked="" type="checkbox"/>
	Equal lite top and bottom sash	<input checked="" type="checkbox"/>
	Full Fusion Welded Sash and Frame	<input checked="" type="checkbox"/>
	Sloped Sill and Interlock Leg	<input checked="" type="checkbox"/>
	3-1/4" Frame Depth	<input checked="" type="checkbox"/>
<b>PERF.</b>	DP 40 Rating	<input checked="" type="checkbox"/>
	DP 50 Rating	<input checked="" type="checkbox"/>
	Full 3" Foam insulating Wrap	<input checked="" type="checkbox"/>
<b>3/4" GLAZING</b>	Energy Star III	<input checked="" type="checkbox"/>
	Energy Star U-4	<input checked="" type="checkbox"/>
	Clear insulated glass (3/4")	<input checked="" type="checkbox"/>
	Duralite flexible, warm-edge spacers	<input checked="" type="checkbox"/>
	Tints, Heat Reflection and other options available	<input checked="" type="checkbox"/>
<b>SCREENS</b>	Aluminum Extruded Fiberglass 1/2 screen	<input checked="" type="checkbox"/>
	Aluminum framed fiberglass full screen	<input checked="" type="checkbox"/>
	Extruded Aluminum framed locking 1/2 Screen	<input checked="" type="checkbox"/>
	Aluminum Screening Material	<input checked="" type="checkbox"/>
	Full Flex Screens	<input checked="" type="checkbox"/>
<b>HARDWARE</b>	Our Cam Locks are made of alloyed cast steel to stand up to frequent use. (inferior vinyl windows have plastic locks)	<input checked="" type="checkbox"/>
	All windows over 23 1/2 inches have 2 sash locks for maximum	<input checked="" type="checkbox"/>
	Produced in white or beige to seamlessly match your window	<input checked="" type="checkbox"/>
	Increased leverage assures a weathertight seal when locked	<input checked="" type="checkbox"/>
	Night Latches	<input checked="" type="checkbox"/>
	WOCD sash limiters	<input checked="" type="checkbox"/>
<b>CONSTRUCTION</b>	Composite Reinforced Meeting Rail	<input checked="" type="checkbox"/>
	Bottom and Top Sash Tilt in for easy cleaning	<input checked="" type="checkbox"/>
	Double weather stripped Meeting Rail	<input checked="" type="checkbox"/>
	Full 3" Foam insulating Wrap	<input checked="" type="checkbox"/>
<b>GRILLS</b>	5/8" Contoured Grill Between the Glass	<input checked="" type="checkbox"/>
	3/4" Contoured SDL with spacer bar	<input checked="" type="checkbox"/>

# What's between the Glass Makes all the Difference

ECOSHIELD WINDOWS ARE BUILT WITH ADVANCED  
TECHNOLOGY DURALITE WARM-EDGE SPACERS



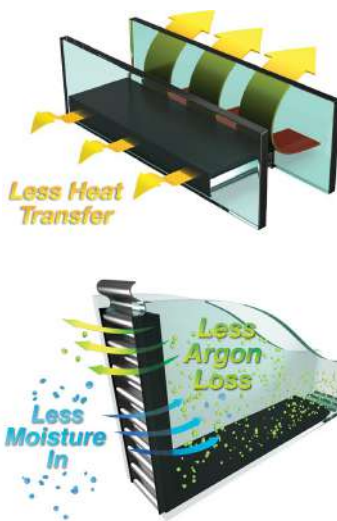
*Windows built with Duralite technology reduce heat transfer and help stabilize the temperature of the inner windowpane, maintaining a comfortable inside environment, condensation-free glass, and saving you money on energy costs.*



## DURALITE® SPACER DESIGN

Duralite is a flexible, warm-edge spacer that lives between the inner and outer window panes. The Duralite technology features a unique no metal composite laminating system that provides superior durability and thermal performance for glass insulation in all weather.

An Ecoshield vinyl window with Duralite spacers contains an argon gas-filled polycarbonate shim with a virtually impermeable butyl sealant, a three-sided continuous moisture barrier, and a desiccated topcoat. This advanced design eliminates condensation and mold and allows natural light to filter in with UV blocking technology that protects interior finishes and decor.



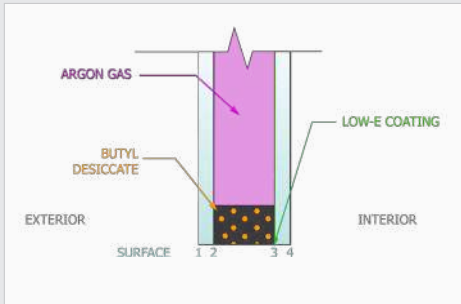
## SUPERIOR THERMAL PERFORMANCE

The thermal performance of a window plays a major role in household energy conservation. A high-performance window system will keep your energy costs low by reducing heat loss in the winter and heat gain in the summer. Duralite combined with Low-E glass and argon produces one of the highest performing, energy-efficient window systems, saving you money on your heating and cooling costs. Duralite is an ENERGY STAR® qualified product.

## Not All Glass is Created Equal

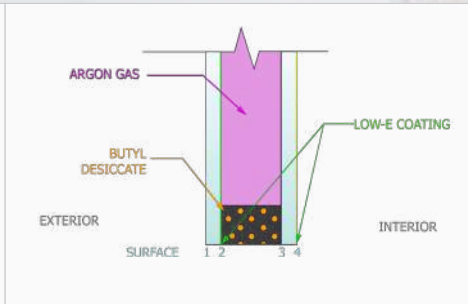
*Windows in the Northeast can take a beating - Get the Right Glass!!!*

Cold and Mixed Climates Like the Northeast Demand Performance from their Windows!



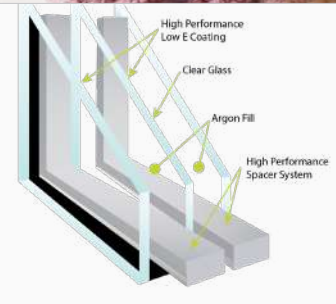
### Energy Star III

- Higher level of solar heat control for the Northern Region
- High visible light transmission of 68% for plenty of natural daylighting and visibility into interior spaces
- Lower level of indoor and exterior reflectance
- The Low-e coating on this surface keeps weather OUT of your home. *Frigid winter air and summer heat stay outside where they belong!*



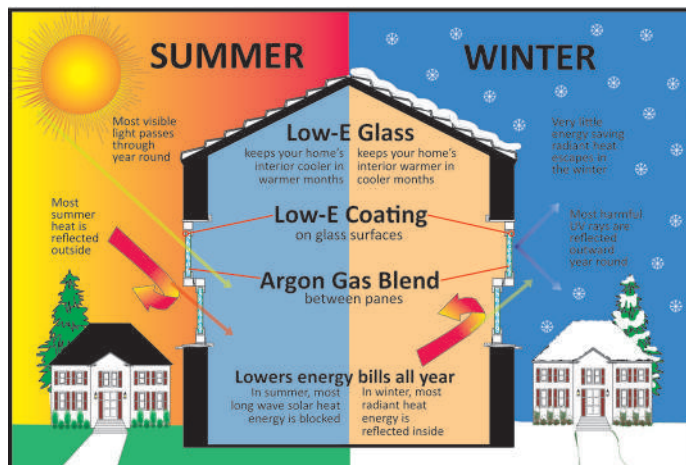
### Energy Star U4

- Provides thermal insulation with passive solar gain resulting in year round cost savings
- High-level visible light transmission of 77% (VLT) for plenty of natural daylighting.
- Low-level indoor reflectivity
- Low - e coatings on both glass surfaced keeps weather outside and your controlled environment in!



### DOE - R5

- REDUCE THE AVERAGE HEAT LOSS THROUGH WINDOWS BY AS MUCH AS 40 PERCENT!
- \*Based on exterior replacement utilizing 16 windows. Savings are average and may vary according to home type and location.*



## CLEAR INSULATED GLASS

2 Pieces of insulated glass with air between them increases your energy efficiency from the standard One solid piece of glass.

Best for garages, sheds and other low cost applications

# ECOSHIELD VINYL



## SUPERIOR CONSTRUCTION MATERIALS

- Impact-resistant, scratch and dent-proof construction
- Resists pollution, acid rain, salt air, heat, humidity, temperature extremes, and weathering
- Lifetime guarantee and maintenance-free with easy cleaning functionality



## ENERGY SAVING DESIGN

- Patented DOE R5 glazing system provides superior insulation from weather and noise
- Unique multi-chamber construction eliminates the need for storm windows
- Meets Energy Star requirements, saving up to 40% in annual energy costs



## SECURE FRAMEWORK

- Heavy-duty double-walled frames provide ultimate structural strength
- Interlocking sash rails prevent tampering
- Dual-arm operators and multi-point locking systems for added security



## TIMELESS DESIGN

- Clean architectural lines have a traditional window look
- Peel-free color integrated into vinyl construction
- Elevated curb appeal designed to last

**OUR CUSTOM MANUFACTURING FORMULA COMBINES SUPERIOR PVC COMPOUNDS WITH INNOVATIVE ENERGY EFFICIENT TECHNOLOGIES TO PRODUCE A VINYL WINDOW THAT SURPASSES LEADING COMPETITORS IN QUALITY, COST-SAVINGS, AND VISUAL APPEAL.**

## Profile Options

### Simulated Divided Light Grill



- **3/4" Contoured SDL with spacer bar**
- Our simulated divided light grill incorporates a space giving the look of true divided light

### Grill Between the Glass



- **3/4" Contoured Grill Between the Glass**
- Our grill between the glass incorporates a deluxe shadow bar giving the look and feel of divided panes.



## Fabricated for today's generation.

- Limited Lifetime Warranty
- Over Seven Decades of Manufacturing Experience
- Electronic Ordering System
- Field Service Team
- Architectural Support
- Marketing Services
- Extensive Delivery Fleet
- Energy Star Labeled
- NFRC Certified
- AAMA Certified Extrusions



## A Cleaner, Greener World

*Ecoshield Windows can reduce home energy use by 30 to 40 percent, and reduce CO2 output by 1,600 pounds per year. \* No window on Earth is better for the planet.*



## Designed for Living

*Ecoshield Windows come in a wide range of styles to complement almost any architecture. They're low maintenance, high-performance, easy to clean, and a natural fit with any living room or lifestyle.*



## Built for Life

*High-grade hardware and high-impact components have earned Ecoshield Windows high marks for longevity. All Ecoshield Windows are backed by the strongest warranty in the industry.*

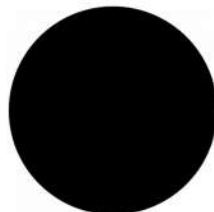
## Standard Exterior Colors



TERRASTONE



FIELDSTONE



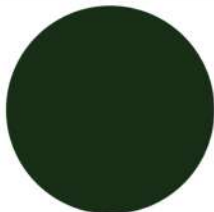
BLACK



BRONZE



AUTUMN RED



HUNTER GREEN

*Have a color in mind? We can custom match it!*

\*All representations of colors are mechanically reproduced and may vary from the actual product. Terms and conditions apply

