

EnergyCore™ Windows.
The Next Generation In Efficiency and Savings.



The Most Energy Efficient
Windows Available.

*Highest Energy
Efficient Designation
from Energy Star*



energycore™
Fusion Insulated System™ by **MIKRON**



The ENERGY STAR Most Efficient 2013 designation recognizes the most efficient products among those that qualify for the



ENERGY STAR. American Window Systems Energy Core windows represent the leading edge in energy efficient products this year.

Our EnergyCore window line with triple pane glass and argon gas has been designated as one of the Most Efficient ENERGY STAR® qualified products in 2013.

For more information regarding the ENERGY STAR® Most Efficient program, visit:
www.EnergyStar.gov/MostEfficient.

Introducing EnergyCore™ The Most Energy-Efficient Window Ever.

When it's time for new windows in your home, you have the opportunity to make your home more energy efficient, saving you money on heating and cooling costs as you reduce your impact on the environment.

While there are many choices, one stands out as the most energy efficient window today: The EnergyCore Window.

There are many factors that influence how well a window performs, including the frame material, number of "lites" or window panes, LowE glass and the gasses and sealants between glass.

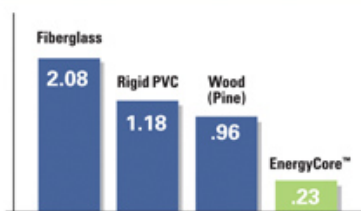
INNOVATIVE FRAME TECHNOLOGY

The AirCell™ frame window was created using a patent-pending fusion-insulated process.

This unique manufacturing process, fully insulates the frame and adds structural integrity to the window. **Compared to other foam-filling processes that can leave voids, the fusion-insulated process eliminates all voids that can lead to energy loss.**

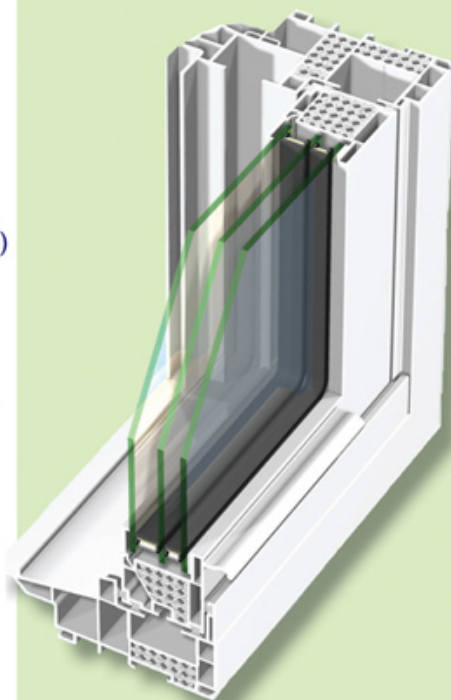
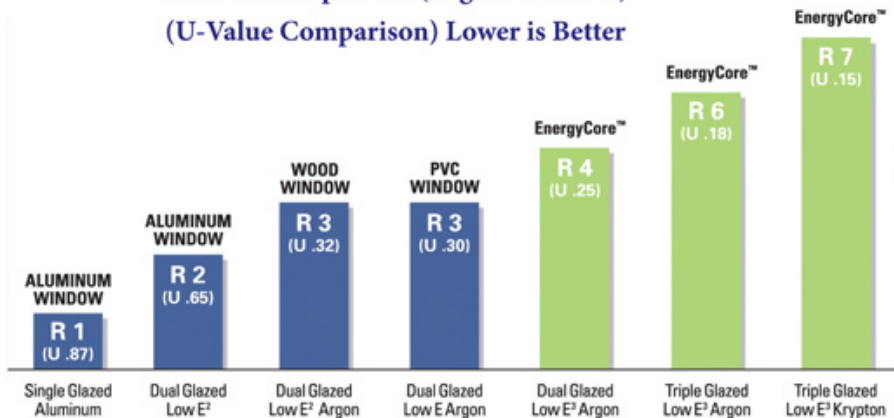
In fact, compared to all other frame types, EnergyCore with AirCell is stronger and delivers superior energy performance. In comparisons, EnergyCore reduces energy loss (blocks thermal conductivity) **six times better than fiberglass, four times better than vinyl and three times better than wood.**

Measuring Energy Performance



Thermal Conductivity (K-Value)

R-Value Comparison (Higher is Better) (U-Value Comparison) Lower is Better



SUPERIOR ENERGY-EFFICIENT GLASS

EnergyCore Windows use **LoE³-366®**, by **Cardinal**. It delivers the ideal balance of solar energy reflection and visibility, **providing the highest levels of year-round comfort and energy savings**. The glass performance is a result of an industry-leading triple layer of silver that offers far better performance than ordinary low-E glass.

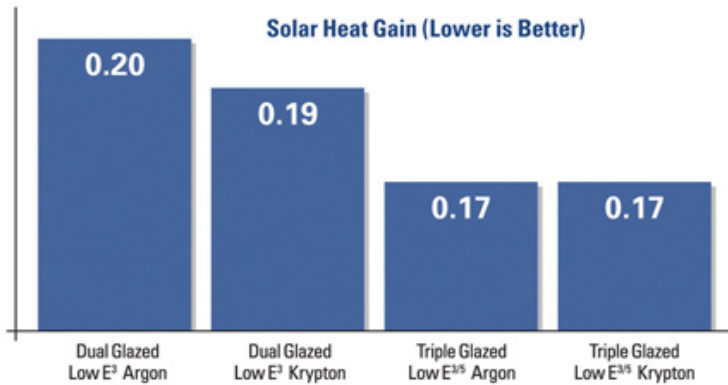


Introducing ThermalCERT: now you can verify the thermal performance you're buying.

With conventional gas filling, you can only assume your window actually delivers the U value you were promised. Why? Gas filling remains an art, not science. Most are fabricated and installed with the thermal performance unverified. If checked, the procedures typically are neither scientifically accurate nor statistically significant. As a result, you take the thermal performance of your window on faith. You no longer have to settle for assumptions. Today, with ThermalCERT by OptiGas, you can be certain the U value you were promised is the U value you get. With ThermalCERT, you can get a certificate of thermal performance to verify the production process was accurate and effective.



Solar Heat Gain (Lower is Better)



TILT DOUBLE HUNG, AirCell™, LowE Duralite™ SPACER

Inside glass and outside temperatures.

The table below compares the room-side center of glass temperatures of different glass types against two different winter conditions.

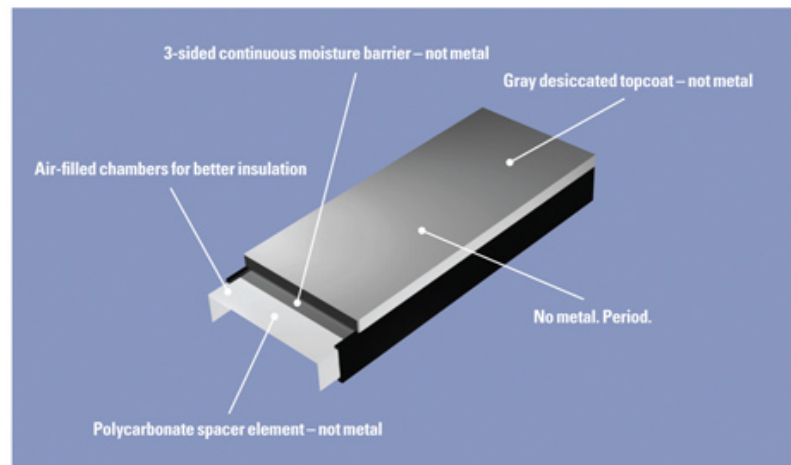
Inside Glass And Outside Temperatures	Outside temp -20°F (-30°C)	Outside temp +20°F (-10°C)
Single-pane, clear	0°F (-19°C)	31°F (-3°C)
Double-pane, clear	37°F (2°C)	51°F (9°C)
Ordinary low-e (air fill)	46°F (7°C)	57°F (13°C)
LoE ³ - 366 (air fill)	49°F (9°C)	58°F (14°C)
LoE ³ - 366 (argon fill)	52°F (11°C)	60°F (15°C)

THE DURALITE WARM-EDGE SYSTEM

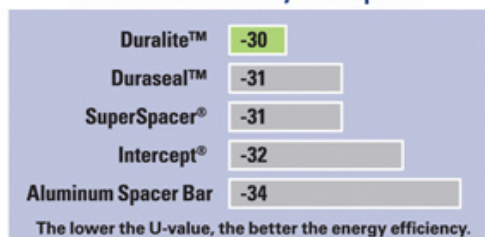
In addition to a superior energy-efficient frame system, the EnergyCore Window uses the best spacer in its class. Among the other high-performance components that make the EnergyCore Window the best in its class are the spacers that separate multiple panes of glass in the window's construction.

Duralite™ next-generation spacer with warm-edge technology uses no metal. It substitutes metal with a unique laminated composite. As a result, Duralite reduces thermal conductivity up to 45 percent.

When compared with other spacers, Duralite offers the lowest U-Value rating, the best condensation resistance, and is the best energy-efficient spacer system available.



Duralite spacers perform better in U-value tests than any other spacer.

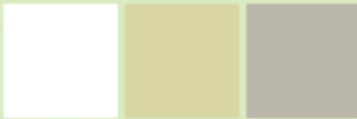


enviro  sealed
windows *advantage*

TOUGH COLORS AND FINISHES THAT ENHANCE YOUR HOME'S BEAUTY

We understand that it's also important for a window frame, even if it's the most energy-efficient available, to look attractive and add style to your home.

Standard Interior and exterior colors are White, Almond or Adobe offering smooth clean lines to your home's design.



White

Almond

Adobe

Optional pre-finished SuperCapSR exterior color.
Bronze exterior available over white or adobe interior.

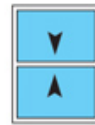


Architectural
Bronze

To stand up to intense UV exposure, our frame exteriors feature optional patent-pending SuperCapSR™ color. The result of military infrared reflective technology, a SuperCapSR surface reflects 78% of infrared light to reduce solar heat and prevent heat-related frame distortion. Co-extruded with a thermally fused acrylic, the highly durable color layer will not delaminate, is scratch-resistant and 12 times harder than paint for beauty that lasts.

STYLES TO FIT YOUR HOME

EnergyCore Windows are available in the following window styles:



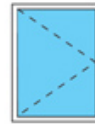
Tilt Double Hung



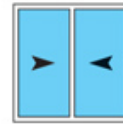
Single Hung



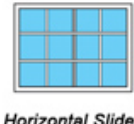
Single Hung
with Grids



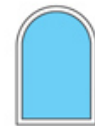
Casement



Double Slider



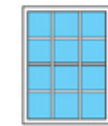
Horizontal Slider
with Grids



Round Top



Operating
Round Top



Fixed Picture
with Grids



Half Circle



Awning



Fixed Arch
with Grids



Circle



Octagon



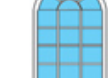
Half Circle
with Grids



Eyebrow



Operating Eyebrow



Circle top with Grids



Trapezoid



Triangle



Single Hung
Perimeter



Quanex
building products
www.Quanex.com



AMERICAN WINDOW SYSTEMS

6201-C Dowdell Road
Fort Worth, Texas 76119

817-654-9050

Copyright © 2009 Quanex Building Products | Rev 02/2013
EnergyCore™, AirCell™ and SuperCapSR™ are trademarks of Quanex Building Products
Energy Star® is a registered trademark of the U.S. Department of Energy