

# Climatech<sup>®</sup> TG2

*Unleash the Performance Power of 7*



*Preserving the environment while saving energy.*

**Alside<sup>®</sup>**



# ClimaTech® TG2... an affordable solution for even better window performance.

It is pretty common knowledge that when you replace your windows, it may well become one of the wisest investments you will ever make in your home. And, with today's state-of-the-art manufacturing procedures, energy efficiency and maintenance freedom features, vinyl windows have quickly become the number one choice for replacement windows. But the vinyl, and its multi-chambered insulating design is only part of the story.



Over 80% of most windows are glass. This means that the performance of the insulated glass unit is critical, in all seasons. Windows need to perform well in the winter months, and summer months as well. So doesn't it

make sense, that when you are about to make this type of an investment, you choose a product that will help you to realize a quicker

return on your investment? Then choose an Alside Window Product with the ClimaTech® TG2 insulated glass package, and enjoy the fact that you have made an even wiser investment for your home.



Take a look at these comparisons and see for yourself why the ClimaTech TG2, triple-glazed insulated glass package with multi-layer, low emissivity PPG Solarban® 60 Low-E glass, and the increased insulating capabilities of argon gas should be your answer to your replacement window needs.



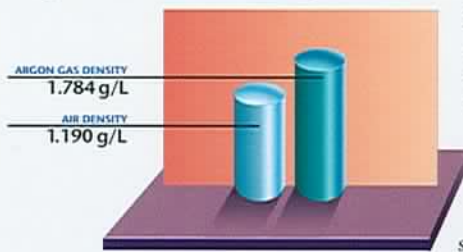
Glass Technology  
SINCE 1883



# Alside®

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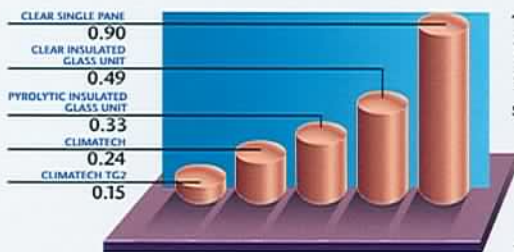
## Improved Thermal Performance.



Insulated glass units were initially filled with air or dry nitrogen. It was later discovered that a dense, slow moving gas would help to minimize the convection currents within the space, thereby reducing conduction and the transfer of heat. These inert, colorless, odorless and safe gasses have proven to be very successful in improving the thermal

performance of a window. This chart, shown in a grams per liter measurement, shows that the ClimaTech TG2 insulated glass unit with two chambers of argon gas will prove to insulate over 33% better than a unit filled with air.

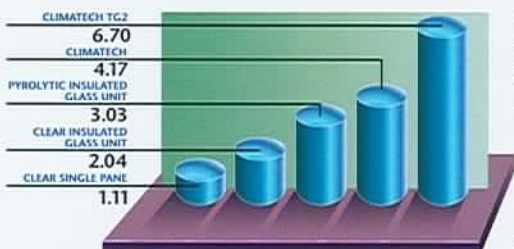
## Improving a Window's Winter U-Factor Performance.\*



The U-Factor (also referred to as U-Value) is a number that represents the rate of heat flow through a glazing system. The lower the U-Factor, the greater a window's resistance to heat flow, and the better its insulating value. This performance is critical to those homeowners who may experience increased heating

conditions not only during the winter months, but very possibly late fall and early spring as well. This chart shows that the ClimaTech TG2 insulated glass unit that utilizes two panes of multi-layer, PPG Solarban® 60 Low-E glass will outperform the standard clear unit by as much as 70%.

## What R-Values Mean to Window Products.\*

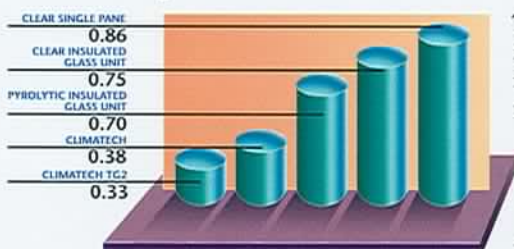


An R-Value is a measure of the resistance of a glazing material or fenestration product to heat conduction. It is the inverse of a U-Factor ( $R=1/U$ ) and is expressed in terms of hr-sq ft-F/Btu.

A higher R-Value shows a greater resistance to heat flow and a higher insulating value than that of a low

R-Value. Usually, window R-Values range from 0.9 to 3.0, except in special cases. This chart shows that an Alside Window with the ClimaTech TG2 insulated glass package is 70% more energy efficient than a standard double-paned unit.

## A Solution for Solar Heat Gain.



The solar heat gain coefficient (SHGC) is a number that represents the fraction of solar radiation admitted through a window, both transmitted and absorbed, and subsequently released inward. The lower a window's solar heat gain coefficient, the less solar heat it transmits, which therefore leads to a more comfortable

interior of the home. Climates or seasons that rely heavily on air conditioning will benefit from a window product that displays a lower SHGC. As shown, the ClimaTech TG2 unit will outperform the standard clear insulated glass unit by as much as 56%.

\* Based on center of glass (COG).

