ClimaTech® TK2

Energy-Engineered Triple Pane Insulated Glass Package

Maximize your energy savings and help protect the planet with high-performance windows.

Alside®

ClimaTech TK2 Insulated Glass

Precision-Built for Superior Energy Savings.

Krypton Gas

Low-E Surface

You may not realize it, but a window's glass system is a key factor in achieving maximum thermal protection. Windows are roughly 80% glass, so it's essential to select a glass package that blocks heat from escaping in the winter and keeps cool air in during the summer. High-performance insulated glass helps ensure a more balanced, comfortable climate with reduced annual fuel costs.

ClimaTech TK2 insulated glass, which incorporates the most advanced insulated glass technology, is your best defense in achieving maximum energy efficiency. This triple-paned unit features the PPG Intercept® Warm-Edge Spacer System, two surfaces of low-emissivity (Low-E) glass and two airspaces filled with krypton gas.

When you compare the performance properties of ClimaTech TK2 to other insulated glass options, you'll see why it's a smart choice for you and a positive choice for the environment.

ENERGY STAR PARTNER

Alside offers a variety of ENERGY STAR qualified products. Consult your window professional for the optimal glass package required for your home and climate zone.

Greater Thermal Efficiency.

Initially, insulated glass units were filled with air or dry nitrogen. It was later discovered that a dense, slow moving gas would minimize the convection currents within the space, thereby reducing conduction and the transfer of heat. These inert, colorless, odorless and safe gasses substantially improve the thermal performance of a window. As shown in this chart, using a grams-per-liter measurement, the ClimaTech TK2 insulated glass unit with two chambers of krypton gas will insulate nearly 110% better than a unit filled with argon gas.

KRYPTON GAS DENSITY
3.749 g/L

ARGON GAS DENSITY
**1.784 g/L**

AIR DENSITY
1.290 g/L
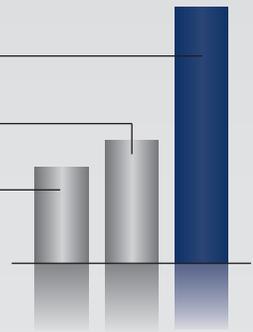
Increased U-Factor Performance in Winter.*

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 especially critical to keeping homes energy-efficient during cold winter months. As shown in the side-by-side comparison, the ClimaTech TK2 insulated glass unit built with two panes of multi-layer, low-emissivity (Low-E) glass will outperform the standard clear unit by over 50%.

CLEAR INSULATED GLASS
**0.45**

CLIMATECH
0.30

CLIMATECH TK2
0.20
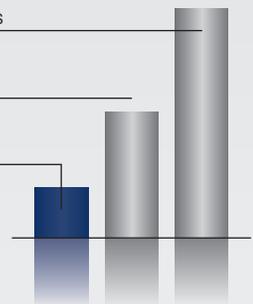
Improved Insulating R-Value.*

R-Value represents a material's resistance to heat flow and its ability to insulate. It is the inverse of a U-Factor (R=1/U) and is expressed in terms of hr-sq ft-F/Btu. The higher the R-Value, the better the window's insulation performance. Typically, window R-Values range from 0.9 to 3.0. As shown in this chart, an Alside 0501 window with the ClimaTech TK2 insulated glass package is nearly 125% more energy-efficient than a standard double-paned unit.

CLEAR INSULATED GLASS
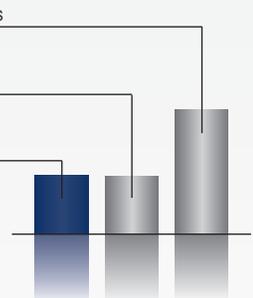**2.22**

CLIMATECH
3.33

CLIMATECH TK2
5.0
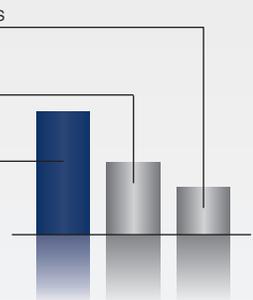
Enhanced Solar Heat Gain Performance.*

The Solar Heat Gain Coefficient (SHGC) measures how well a window blocks heat from the sun. SHGC is expressed as a number between 0 and 1 – the lower the SHGC, the better the window is at preventing unwanted heat from penetrating your home. This protection is particularly important during the summer cooling season and in climates that rely heavily on air-conditioning. As shown in the comparison chart, the ClimaTech TK2 glass unit outperforms the standard clear insulated unit by 56%.

CLEAR INSULATED GLASS
0.55

CLIMATECH
0.27

CLIMATECH TK2
0.24

*Performance based on whole window values of a 0501 Double-Hung Window.

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