

# ClimaTech® Plus

*High-Performance Insulated Glass System*

*Designed to Increase the Energy Efficiency of Your Home*



**Alside®**

# CLIMATECH PLUS GLASS WITH SUPER SPACER® STRUCTURAL FOAM SPACER SYSTEM

## Energy Saving Solutions\*

For most people, conserving energy and reducing fuel costs is a primary reason for purchasing replacement windows. The ClimaTech Plus insulating glass package is energy-engineered to increase the thermal efficiency of your home. Featuring a double-pane glass unit\*\* of UV-filtering Low-E (low-emissivity) glass, a Quanex® Super Spacer® structural foam spacer and argon gas, ClimaTech Plus provides a high-performance glazing system that helps shield your home against energy loss, while also preventing condensation from forming at the window edge.

The spacer system in your window not only stabilizes the panes of glass, it also plays a key role in the window's structural integrity. Many of today's windows are constructed with highly conductive metal-based spacers, which can cause the window to lose its overall resistance to heat flow at the edge of the glass.

By combining a structural foam spacer with a seal of hot melt butyl to create a "warm" low-conductive edge, the non-metal foam spacer system eliminates metal-to-glass contact, increasing glass edge temperatures for a superior thermal barrier and year-round energy savings. The dual-seal design also delivers outstanding durability and longevity by reducing any subtle movement of the glass panes caused by temperature changes.



### Traditional Metal Spacer

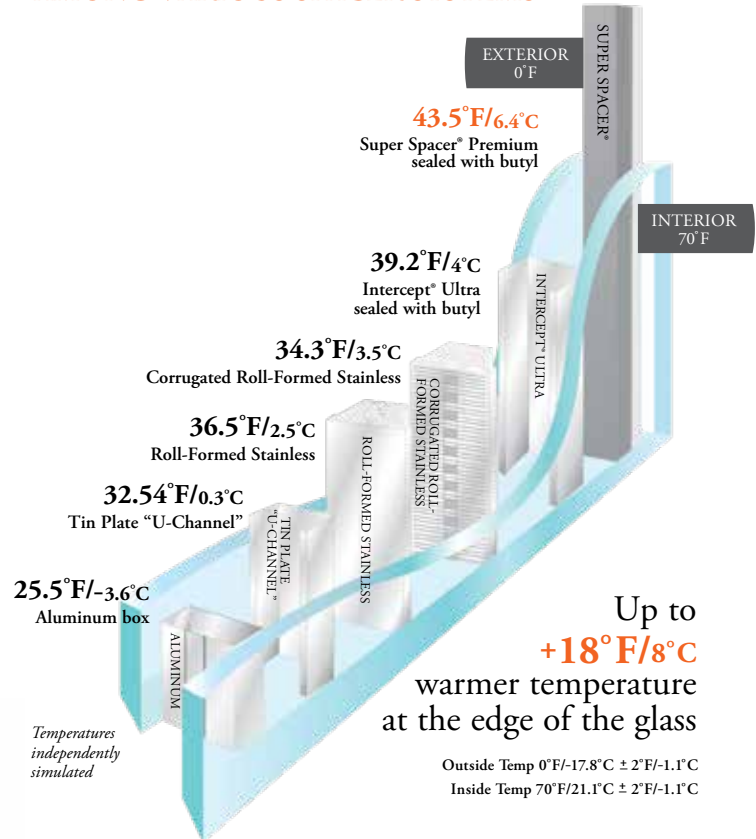
The metal edges conduct cold from the outside, which can lead to condensation problems at the window edge.

### Super Spacer®

#### Structural Foam Spacer System

The structural foam design inhibits the path of escaping heat far more efficiently than any other type of spacer, reduces conduction and helps prevent condensation.

## COMPARISON OF GLASS EDGE TEMPERATURES AMONG VARIOUS SPACER SYSTEMS†



Simulations performed using WINDOW 7.8 and THERM 7.8, according to NFRC 100-2020 and NFRC 200-2020. All models were 1200 x 1500 mm (approx. 48" x 60") and NFRC-2010 conditions – 0°F outside, 70°F inside – were used for all simulations. Low-e glass for double-pane IG was Cardinal Low-E3 270; low-e glass for triple-pane IG was Cardinal Low-E3 366. All air spaces 0.500" wide, with 90% Argon fill. Doubles were modeled both as IG units only and in Mikron 1400 series SSTDH; triples were modeled as IG only and in Mikron 10700 (EnergyQuest) series SSTDH. Secondary sealant materials and depths are as listed. Temperature values shown are from modeling results, and were measured at the sightline (SL) and at 0.5" above the sightline (SL+0.5"). Super Spacer®, Duralite® and Duraseal® are registered trademarks of Quanex Building Products. Intercept® is a registered trademark of GED Integrated Solutions. XL Edge™ and is a trademark of Cardinal Glass Industries.

## SUPER SPACER® STRUCTURAL FOAM SPACER'S PROVEN ADVANTAGES

- True warm-edge
- Advanced multilayer vapor barrier structure
- Double-seal system
- Substantially more thermally efficient at the edge than windows made with conventional aluminum spacers
- Reduces the chance of seal failure
- Improved sound absorption over traditional metal spacers
- Helps to lower year-round energy use
- Tested and proven durability



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