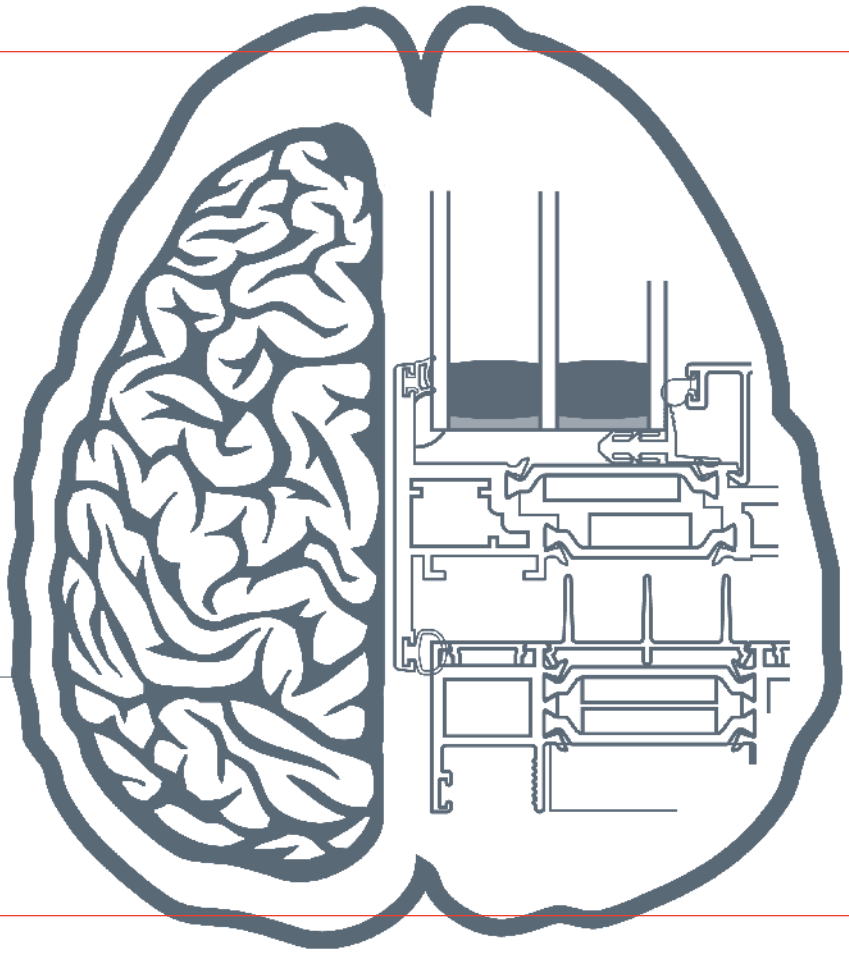
OPTIQ™ AA™4325 SERIES WINDOWS

KAWNEER

# The Industry's Smartest Window Achieves a New Level in Thermal Performance

## THERMAL INTELLIGENCE



The tradition of offering innovative products continues with OptiQ™ Ultra Thermal Windows. Built-in thermal intelligence makes it the industry's smartest window. The result of a pioneering partnership with the U.S. Department of Energy, the AA™4325 series – the first OptiQ™ Window – reaches a new level in thermal performance due to the unique features integrated into its design. This thermal intelligence allows the AA™4325 series to maintain thermal continuity, reduce thermal transmission and help retain interior heat.

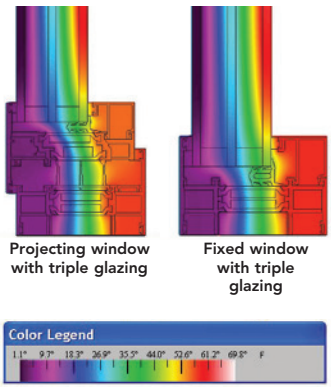
As energy codes become increasingly stringent, high-performing building products are a requirement rather than a luxury. The AA™4325 series meets or exceeds the minimum requirements for Architectural Window performance class, including life-cycle testing. Since it is made from aluminum, this ultra thermal window will never rot, warp or buckle due to moisture and weather exposure. With groundbreaking design features and multiple options for customization, the intelligence of OptiQ™ Windows is truly built into the details.

## PERFORMANCE

With its best-in-class thermal performance, OptiQ™ Windows set new industry standards for thermal intelligence.

The AA™4325 series features a polyamide thermal break that allows it to achieve higher thermal performance than the traditional pour-and-debridge style thermal break. Performance is further enhanced by accommodating 1" and 1-3/4" insulating glass. In addition, alignment of the insulating glass unit with the thermal break allows the window to maintain thermal continuity. Reduced sightlines also decrease thermal conductivity and transfer, while wider thermal break profiles allow for increased space between interior and exterior metal.

**Thermal simulations showing temperature variations from exterior/cold side to interior/warm side.**




Projecting window with triple glazing

Fixed window with triple glazing

Thermal transmission is further reduced by a unique center fin gasket design, the use of insulating foam strips and the ability to accommodate 1-3/4" triple glazing. The window also achieves outstanding condensation resistance, making it ideal for applications like hospitals and schools where condensation and mold are significant concerns.

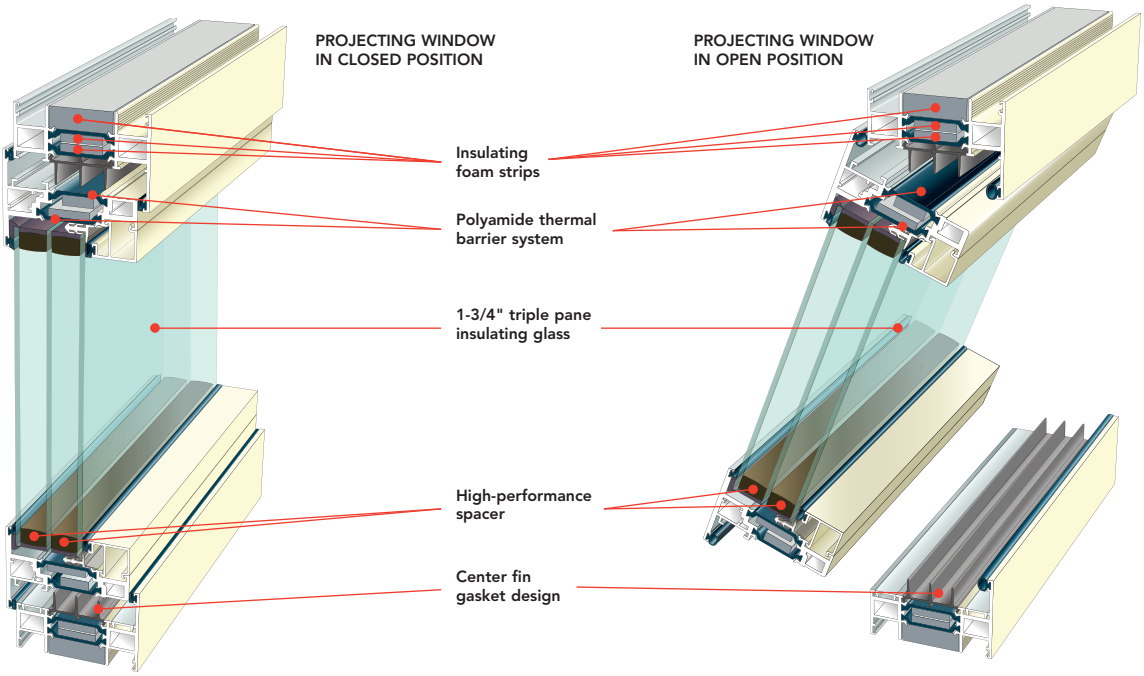
Using commercially available triple insulating glass, AA™4325 series windows have the potential to achieve U-factors of 0.17 for fixed and 0.22 for operable while still achieving a structural design pressure of 80 psf. Superior thermal efficiency also makes the window ideal for buildings seeking Leadership in Energy and Environmental Design (LEED®) certification.

## AESTHETICS AND FLEXIBILITY

When it comes to aesthetics, the AA™4325 series is the perfect combination of brains and beauty. The 3-1/4" frame depth delivers high thermal performance while its minimal sightlines offer superior aesthetics. A dual color option provides the flexibility to vary interior and exterior finishes. This enables a reduction in overall system cost as a result of using a more cost-efficient interior finish or adding accent exterior finishes.

This versatile window is available in several configurations, including fixed, projecting and casement. Additionally, the AA™4325 series offers the flexibility to add or remove thermal options based on performance and cost requirements.

A variety of removable interior stops accommodate multiple infill thicknesses with no disassembly required for re-glazing. Additionally, the factory fabricated and glazed window has durable hardware, including white bronze cam handles and 4-bar hinges. Options for access panels with blinds and insect screens are also available.



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