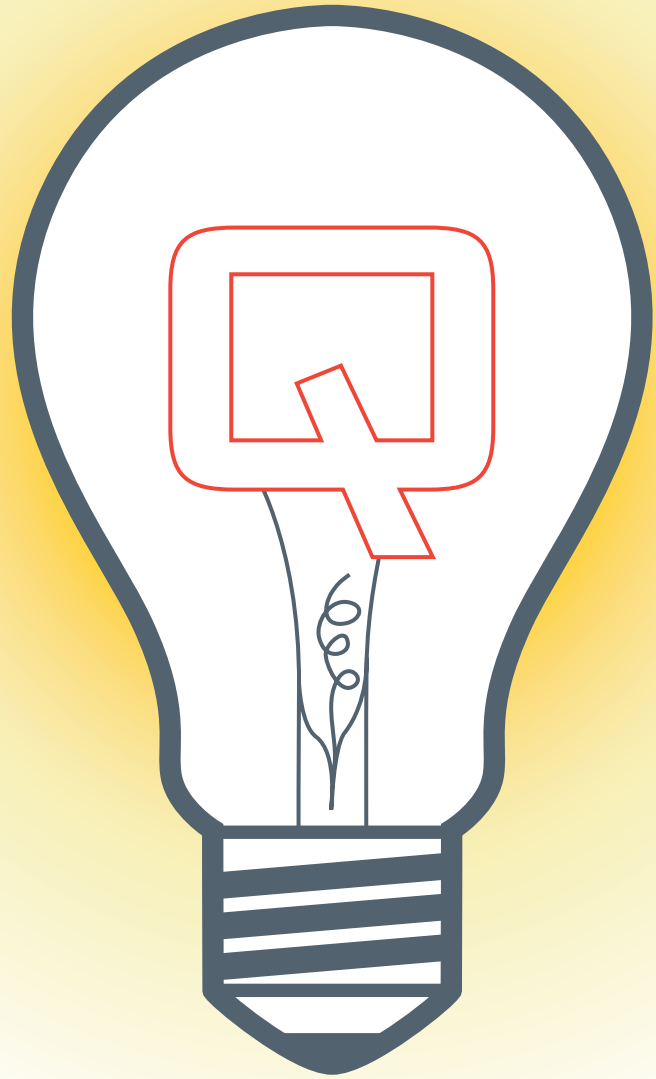


# OptiQ™ Ultra Thermal Windows AA®5450 Series Single and Double Hung Windows

The industry's smartest window continues  
to set the standard for thermal performance

## THERMAL INTELLIGENCE JUST GOT BRIGHTER



With best-in-class thermal performance, **OptiQ™** Ultra Thermal Windows continue to set the standard for thermal intelligence. The result of a continuing partnership with the U.S. Department of Energy, the **AA®5450** single and double hung window – second in a series of OptiQ windows – reaches new levels of thermal performance, thanks to multiple unique features integrated into its design. This thermal intelligence allows the AA5450 series window to maintain thermal continuity, reduce thermal transmission and help retain interior comfort.

Energy codes are becoming increasingly stringent, making high-performing building products a necessity, not a luxury. The AA5450 series window meets or exceeds the minimum requirements for architectural window performance class\*, delivers best-in-class thermal performance and offers more aesthetic choices for new and retrofit construction. Made from aluminum, this ultra thermal window will never rot, warp or buckle due to moisture and weather exposure. Leveraging the groundbreaking design features and multiple customization options found in previous OptiQ Ultra Thermal Windows, with the AA5450 series window thermal intelligence just got brighter.

\*AAMA/WDMA/CSA 101.1S2.A440 (NAFS) and AAMA 910

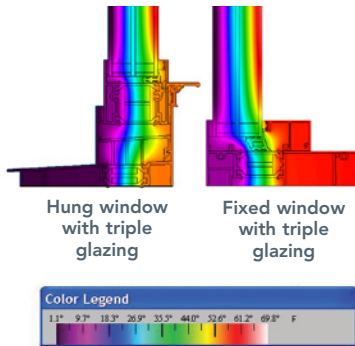
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## Performance

OptiQ™ windows have been the industry's thermal intelligence standard-bearer for years, and that tradition continues with the AA®5450 series hung window. The AW-PG50-H rated architectural class and grade hung window also delivers the highest levels of thermal performance.

The AA5450 series hung window leverages all the innovative OptiQ window features, including a polyamide thermal break that allows it to achieve higher thermal performance than traditional thermally

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



broken products. Performance is further enhanced by accommodating 1" double pane or 1-1/2" triple pane insulating glass, while the 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.

## Performance Test Standards

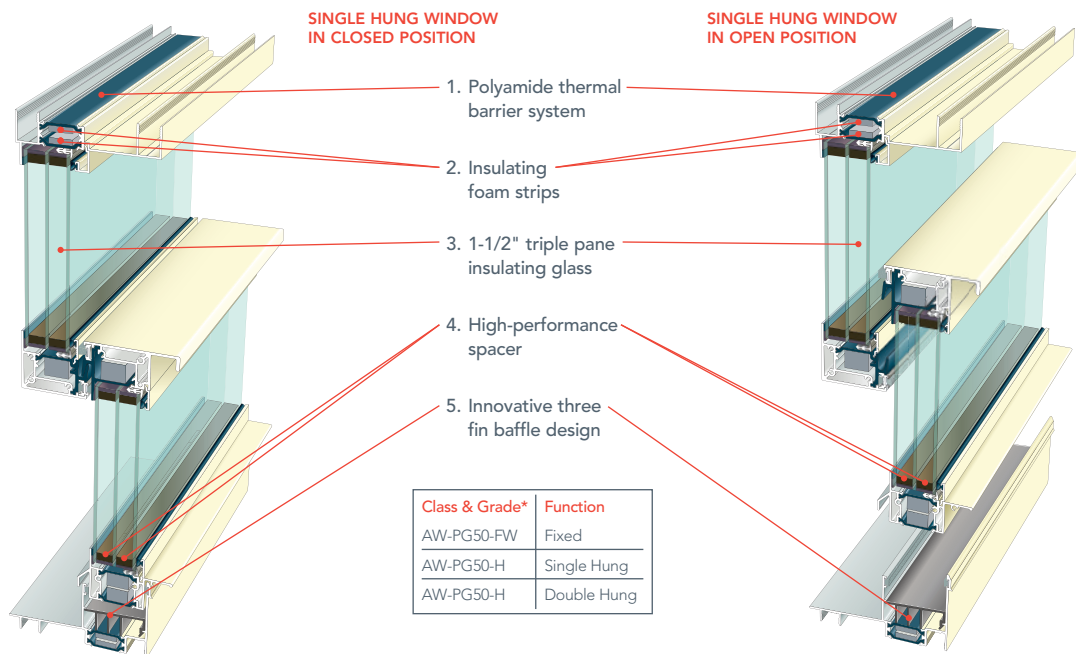
Air Infiltration	ASTM E283
Water	ASTM E331, E547
Structural – Uniform Wind Load	ASTM E330
Thermal Cycling	AAMA 501.5
Thermal Transmittance – U-Factor	AAMA 1503, 507; NFRC 100
Condensation Resistance (CRF, I, CR)	AAMA 1503; CSA A440.2; NFRC 500
Overall Solar Heat Gain Coefficient (SHGC, VT)	AAMA 507; NFRC 200
Sound Transmission (STC, OITC)	ASTM E90, E1425; AAMA 1801

## Aesthetics and Flexibility

The AA5450 series window combines intelligence and good looks to deliver inspired aesthetics. The 4-5/8" frame depth provides high thermal performance while its minimal sightlines offer superior aesthetics. A dual color option offers the flexibility to vary interior and exterior finishes, which enables designers to coordinate and accent multiple environments.

This versatile window is available in several configurations, including fixed, single hung and double hung. Additionally, the AA5450 series window provides the ability to add or remove thermal options based on performance and cost requirements.

A variety of removable interior stops accommodates multiple infill thicknesses with no disassembly required for re-glazing. Additionally, the factory-fabricated and glazed window is built with durable hardware, including white bronze sweep locks and keepers. For easy opening, continuous sash lifts are standard along with Class 5 spiral balances for simple operation.



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