

# Best-in-Class Thermal Performance in a Visually Concealed Vent



Never before has something so seamless offered so much thermal performance. GLASSvent™ UT (Ultra Thermal) Windows are visually frameless concealed vents designed to provide a ventilation option for curtain wall with high thermal performance. The extraordinary thermal performance of GLASSvent™ UT Windows exceeds the thermal standards of many high-performing framing systems. Engineered for seamless integration with the 1600UT System™1 Curtain Wall, GLASSvent™ UT Windows can also be inserted into other Kawneer captured curtain walls and front set framing systems.

In addition to meeting code requirements, GLASSvent™ UT Windows are the ideal solution for architects and designers who want to provide fresh-air ventilation without sacrificing thermal performance in curtain wall or storefront applications. As with all Kawneer windows, this ultra thermal vent is made from material that will never rot, warp or buckle due to moisture and weather exposure.

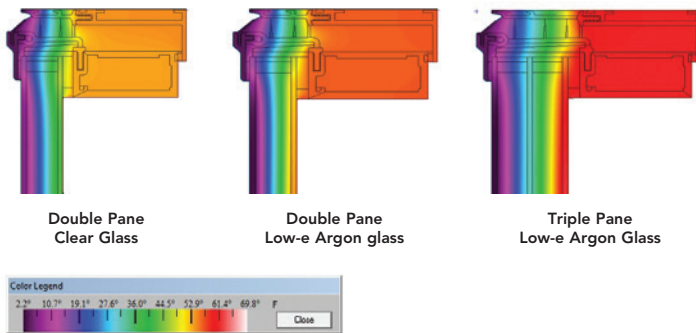
**PERFORMANCE**

This high-performance vent is available for integration with curtain wall and framing systems to create a complete, advanced, thermally superior solution for commercial construction. GLASSvent™ UT Windows are engineered to meet or exceed the minimum requirements for the architectural window performance class, including life-cycle testing – the highest level attainable.

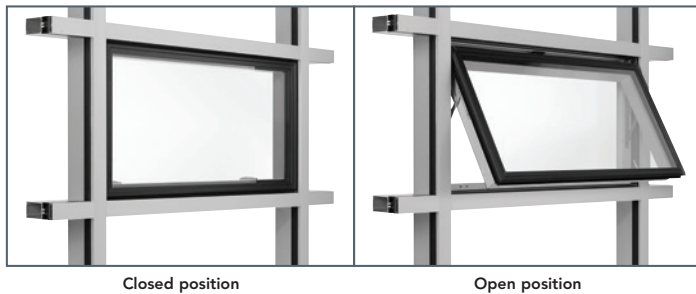
GLASSvent™ UT Windows have been rigorously tested to both AAMA and CSA standards for air, water, structural, thermal and condensation performance. Both 1" (25.4 mm) and 1-3/4" (44.5 mm) insulating glass options are available for superior sound and enhanced thermal benefits.

**PERFORMANCE TEST STANDARDS**

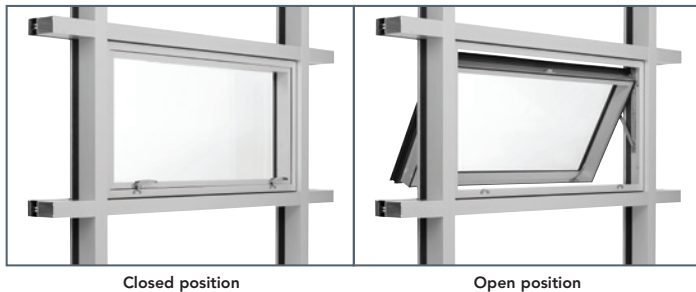
Thermal simulations show temperature variations from exterior/cold side to interior/warm side of GLASSvent™ UT (Ultra Thermal) Windows.



**Exterior view of GLASSvent™ UT Window in curtain wall**



**Interior view of GLASSvent™ UT Window in curtain wall**



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

**FABRICATION AND INSTALLATION**

GLASSvent™ UT Windows are available with the option to buy the window factory glazed by Kawneer or open for glazing by the window installer.

The flexibility of GLASSvent™ UT Windows gives architects an ultra thermal option that combines high-performance vents with high-performance curtain walls and storefront systems, including the 1600UT System™1 Curtain Wall.

**AESTHETICS AND DESIGN OPTIONS**

The innovative, patent-pending design of GLASSvent™ UT Windows provides a sleek ventilation alternative for Kawneer curtain walls and storefront framing systems. Vents are available as project-out or outswinging casement windows without the exterior aluminum profile sightlines that come with typical operating vents. More than a streamlined appearance, GLASSvent™ UT Windows also deliver a convenient means for architects to ventilate with fresh air, which has been shown to improve indoor air quality, as well as improve occupant comfort, well-being and productivity.

Attractive stainless steel four-bar hinges provide positive control for trouble-free operation. Durable cast white bronze locking hardware delivers strength and security, and integral frame-mounted insect screens ensure building occupant comfort.