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 (Ultra Thermal) Windows exceeds the thermal standards of many high-performing framing systems. Engineered for seamless integration with the 1600UT System™ 1 Curtain Wall, GLASSvent™ UT (Ultra Thermal) Windows can also be inserted into other Kawneer captured curtain walls and front set framing systems.

In addition to meeting code requirements, GLASSvent™ UT (Ultra Thermal) 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 (Ultra Thermal) 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 (Ultra Thermal) 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
- 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 (Ultra Thermal) 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 (Ultra Thermal) 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 (Ultra Thermal) Windows provides a sleek ventilation alternative for Kawneer curtain walls and storefront framing systems. Vents are available as project-out or outswing casement windows without the exterior aluminum profile sightlines experienced with typical operating vents. More than a streamlined appearance, GLASSvent™ UT (Ultra Thermal) 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.

Exterior view of GLASSvent™ UT (Ultra Thermal) Window in curtain wall

Interior view of GLASSvent™ UT (Ultra Thermal) Window in curtain wall

Closed position  Open position

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