# ULTRA THERMAL
# ULTRA VALUE
# ULTRA INNOVATIVE

## 1600UT SYSTEM™1 CURTAIN WALL
## 1600UT SYSTEM™2 CURTAIN WALL


With increasing energy costs and stringent code requirements, building owners, architects and glaziers need high-performing products that can help them be code compliant and energy efficient. Kawneer's 1600UT Curtain Wall System™ products are an innovative solution that raises the standards for pre-engineered performance.

Built on the success of the flagship 1600 curtain wall platform, the 1600UT System™1 Curtain Wall and 1600UT System™2 Curtain Wall deliver high thermal performance, versatility, reliability and value. Both are stick fabricated, pressure glazed and ideal for low- to mid-rise commercial applications where high thermal-performing façades are needed. 1600UT System™1 is an outside glazed, captured curtain wall system, while 1600UT System™2 is a structural silicone glazed (SSG) curtain wall system. No matter the system, the end result is an innovative, performance-driven, high-value curtain wall solution.

### SETTING THE STANDARD IN THERMAL INNOVATION

For the utmost in energy efficiency, Kawneer's 1600UT Curtain Wall System™ features an engineered polymer thermal separator and accommodates either double or triple-insulating glass. Additionally, an optional fiberglass pressure plate can further enhance condensation resistance and thermal performance. 1600UT Curtain Wall System™ integrates seamlessly with other high thermal-performing windows and doors from Kawneer to create a complete, advanced, thermally efficient solution for commercial buildings. The system is tested in accordance with North American performance standards, including seismic, thermal cycling and dynamic water.

## PERFORMANCE

Kawneer's 1600UT Curtain Wall System™ is designed to proactively address code requirements, including the International Energy Conservation Code (IECC), ASHRAE/IESNA 90.1, 189.1 and state codes. Both 1600UT Curtain Wall Systems™ are capable of beating these code requirements with double- and triple-pane configurations.

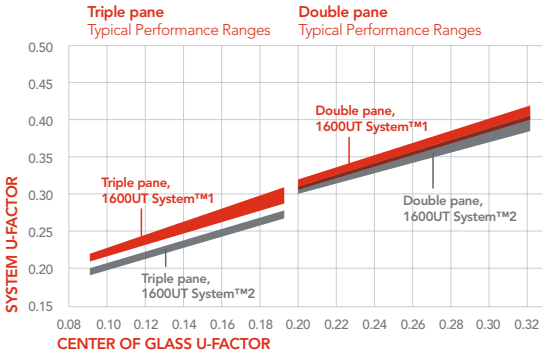
Each infill option offers two levels of performance ranges. These depend on pressure plate choice (aluminum or fiberglass) and system type. The fiberglass pressure plate option not only enhances thermal performance, but also improves condensation resistance.

| CONDENSATION RESISTANCE | PRESSURE PLATE TYPE | CRF | | I | |
|---|---|---|---|---|---|
| | | FRAME | GLASS | FRAME | GLASS |
| 1" DOUBLE-PANE INFILL | Aluminum<br>Fiberglass | 79 | 76 | 71<br>76 | 67<br>68 |
| 1-3/4" TRIPLE-PANE INFILL | Aluminum<br>Fiberglass | 82 | 81 | 74<br>76 | 77<br>78 |

The 1600UT Curtain Wall System™ has been rigorously tested against the following performance standards:

| PERFORMANCE TEST STANDARDS | |
|---|---|
| Air Performance | ASTM E283, NFRC 400, TAS 202, AAMA 501 |
| Water – Static | ASTM E331, AAMA 501 |
| Water – Dynamic | AAMA 501.1, 520 |
| Structural – Uniform Wind Load | ASTM 330, AAMA 501 |
| 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 | AAMA 1503; NFRC 500 |
| Coefficient (SHGC, VT) | AAMA 507; NFRC 200 |
| Sound Transmission (STC, OITC) | ASTM E90, E1425, AAMA 1801 |
| Seismic | AAMA 501.4, AAMA 501.6 |
| Blast | GSA-TS01-2003, ASTM F2912, ASTM F1642 |
| Storm shelter (Essential Facilities) | ICC 500 |

## U-FACTOR*




* U-factor values are simulated using NFRC sizes and procedures. This chart is for general illustration purposes only. Please refer to thermal charts in the Kawneer Architectural Detail Manual on kawneer.com.

## AESTHETICS

Kawneer solutions are widely respected for their ability to deliver optimum energy performance without compromising aesthetics. The innovative 1600UT Curtain Wall System™ is no exception. Kawneer designed the system to integrate many of the aesthetic and functional options found in the industry-leading Kawneer 1600 Wall Systems.

Among the aesthetic benefits of the versatile 1600UT Curtain Wall System™ is a unique design for the glass setting block chair, which allows for larger glass lites of glass than other triple-pane, high performing curtain wall systems. Along with expansive glass sizes, the 1600UT System™2 offers a two-sided vertical SSG mullion solution that permits greater uninterrupted sightlines, while providing enhanced thermal performance. To create flush and unbroken sightlines, both systems use concealed fasteners in their joinery construction.

## FABRICATION AND INSTALLATION

The 1600UT Curtain Wall System™ minimizes installation time and effort in a number of ways:

- Installers can leverage their existing knowledge of Kawneer's time-tested 1600 Wall System™1 and System™2 fabrication and installation methods.
- Straight cuts without notching simplify fabrication.
- A pre-engineered rain screen back pan option is available that uses easy-to-install spandrel adapters.

## FOR THE FINISHING TOUCH

Architectural Class I anodized aluminum finishes are available in clear and color choices. Painted finishes, including fluoropolymer, that meet AAMA 2605 standards and solvent-free powder coatings that meet AAMA 2604 standards, are available in a variety of color choices.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Building Legacies

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