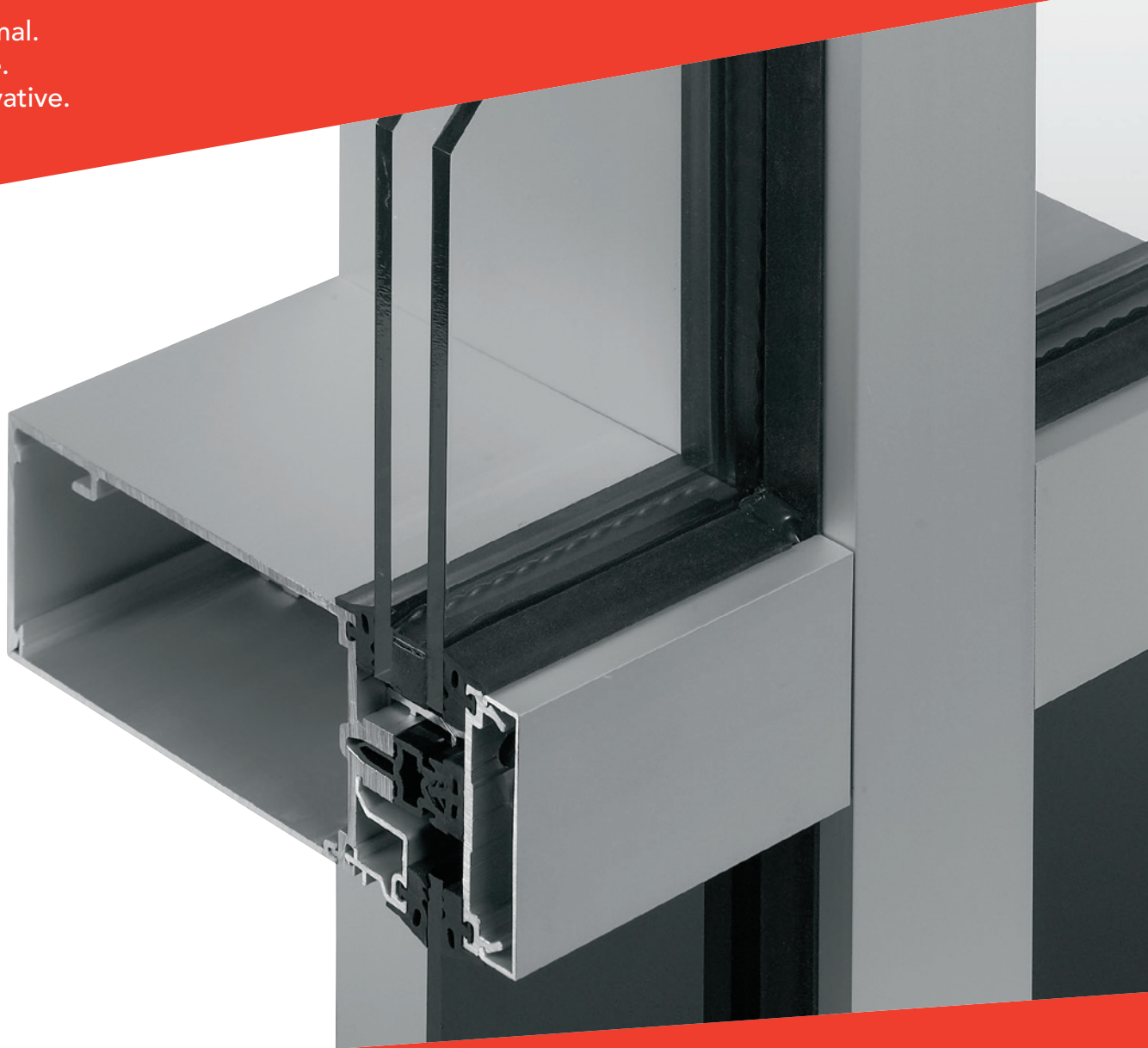


# 1600UT (Ultra Thermal) Curtain Wall System™

## 1600UT System™1 / System™2

Ultra thermal.  
Ultra value.  
Ultra innovative.



With increasing energy costs and stringent code requirements, building owners, architects and glaziers need high-performing products that can help them stay ahead of codes. Kawneer's 1600UT (Ultra Thermal) Curtain Wall System™ is an ultra 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 and 1600UT System™2 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 ultra innovative, performance-driven, high-value curtain wall solution.

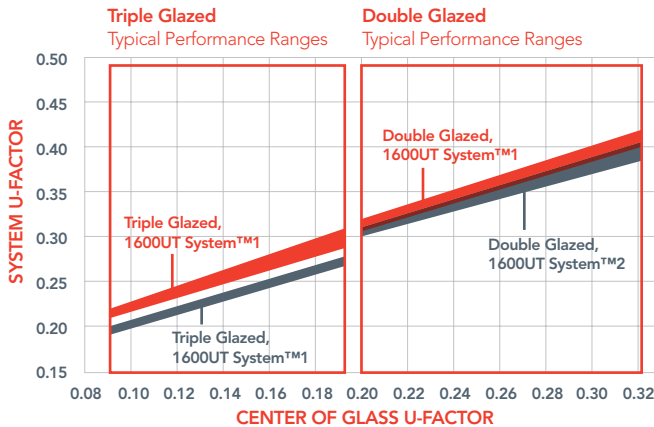
### Setting the Standard in Thermal Innovation

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-glazed configurations.

### U-FACTOR\*



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
<b>1" DOUBLE GLAZED INFILL</b>	Aluminum	79	76	71	67
	Fiberglass			76	68
<b>1-3/4" TRIPLE GLAZED INFILL</b>	Aluminum	82	81	74	77
	Fiberglass			76	78

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

### PERFORMANCE TEST STANDARDS

Air Infiltration	ASTM E 283
Water – static	ASTM E 331
Water – dynamic	AAMA 501.1, 520
Structural – uniform wind load	ASTM 330
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
Seismic	AAMA 501.4

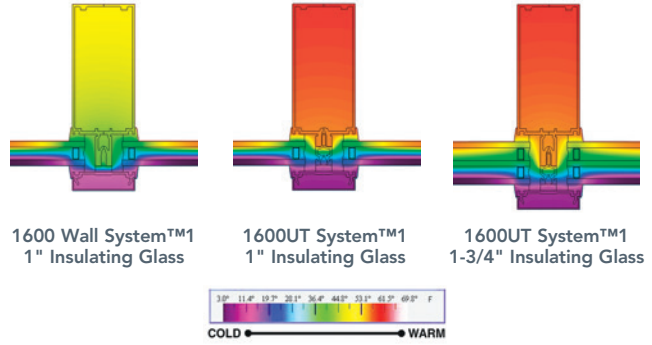
\* U-factor values are simulated using NFRC sizes and procedures. This chart is for general illustration purposes only. Please refer to thermal charts in the Kawneer Architectural Detail Manual on kawneer.com.

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

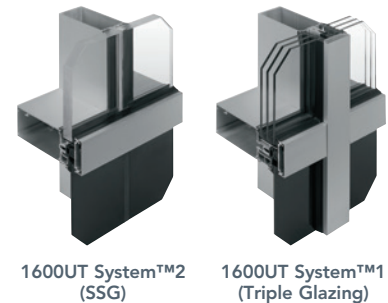


## Aesthetics

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 benchmark 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 than other triple-glazed, 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.

