

# Design with Innovation, Imagination and Inside/Outside Glazing



UNCC Center City Building  
Charlotte, North Carolina

ARCHITECT  
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PHOTOGRAPHY  
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Inside/outside-glazed 1600 Wall System™3 Curtain Wall from yesterday's pioneer and today's leader provides everything you ever wanted in curtain wall systems. 1600 Wall System™3 Curtain Wall incorporates inside glazing and the patented IsoStrut™ Thermal Break to provide first-rate structural capability, outstanding thermal performance and installation economies. And it's versatile enough for low-rise, high-rise and monumental curtain wall applications – from offices to hospitals and government buildings to art centers.

## PERFORMANCE

Thermal and wind-load requirements are increasing at both federal and state levels. 1600 Wall System™3 Curtain Wall has been developed in response to the need for a true thermally broken system with greater structural performance. The patented IsoStrut™ Thermal Break method is used within the mullions of the inside or outside glazed curtain wall system to create a continuous thermal barrier, which substantially reduces thermal transmission and improves condensation resistance

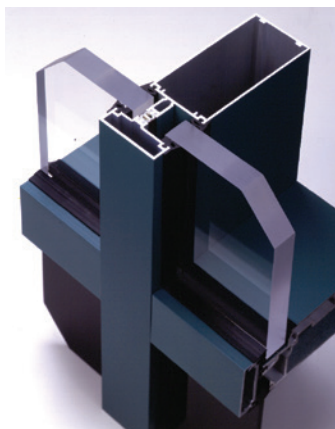
and structural performance. IsoStrut™ Thermal Breaks achieve a high-strength bond between the interior and exterior aluminum and the thermal isolator, which creates a composite assembly for increased structural performance. 1600 Wall System™3 Curtain Wall has been tested in accordance with all major standards for curtain wall:

Air Infiltration	ASTM E283
Static Water Penetration	ASTM E331
Dynamic Water Penetration	AAMA 501.1
Thermal Transmittance	AAMA 1503.1
Structural Performance	ASTM E330
Seismic Performance	UBC Section No. 2334, (H) 2 (Phase I, Phase II)

## ECONOMY

Inside-glazed 1600 Wall System™3 Curtain Wall provides a major reduction in installation costs, and re-glazing is much easier and less costly. 1600 Wall System™3 Curtain Wall is part of Kawneer's 1600 Wall series and is fully compatible and interchangeable with 1600 Wall System™1 Curtain Wall and 1600 Wall System™2 Curtain Wall. Standardization of overall depths to 6" (152.4 mm) and 7-1/2" (190.5 mm) means fewer parts to inventory and simplified work for architects.

In addition, the vertical mullion with the IsoStrut™ Thermal Break reduces labor costs because the mullion, cover and thermal isolator are integral. There are no vertical pressure plates, screws, thermal separators or snap-on covers to install. Further labor savings can be gained by pre-installing horizontal pressure plates. Outside glazing can easily be achieved by installing the pressure plates from the outside after the glass is in place. This option is often used in spandrel areas, and re-glazing can be done from the outside without disrupting building occupants.



## AESTHETICS

1600 Wall System™3 Curtain Wall gives designers the greater flexibility of a true inside/outside glazed system, which allows for different exterior and interior finishes, and creates unlimited design possibilities with associated cost savings. Construction flexibility allows a structural silicone glazing option. 1600 Wall System™3 Curtain Wall has no exposed fasteners, and a GLASSvent™ Window option offers designers a concealed ventilator with uninterrupted sightlines.

## FOR THE FINISHING TOUCH

Permanodic™ anodized finishes are available in Class I and Class II in seven different color choices.

Painted finishes, including fluoropolymer, that meet or exceed AAMA 2605 are offered in many standard choices and an unlimited number of specially designed colors.

Solvent-free powder coatings add the "green" element with high performance, durability and scratch resistance that meet the standards of AAMA 2604.