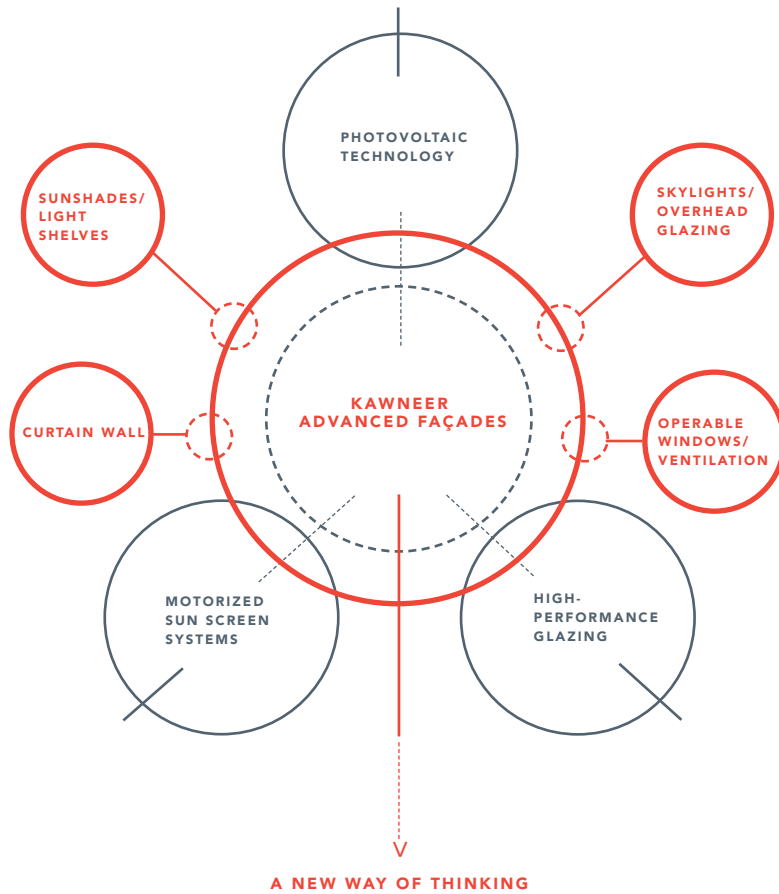


KAWNEER
ADVANCED
FAÇADES
A NEW
WAY OF
THINKING

Architectural Aluminum Systems
Entrances + Framing
Curtain Walls
Windows





KAWNEER CONTINUES TO LEAD THE INDUSTRY WITH VISION, WORLD-CLASS ENGINEERING AND HIGH-QUALITY SUSTAINABLE SOLUTIONS. AS AN INSPIRED INNOVATOR AND DEDICATED PARTNER, WE'RE USING A COLLABORATIVE APPROACH TO TAKE FAÇADE AND BUILDING DESIGN TO THE NEXT LEVEL. KAWNEER ADVANCED FAÇADES ARE A NEW WAY OF THINKING — A SYNERGISTIC, SEAMLESS INTEGRATION OF PRODUCTS DESIGNED TO PROVIDE ENERGY SAVINGS AND IMPROVED INDOOR ENVIRONMENTAL QUALITY FOR OPTIMAL PERFORMANCE.



MEDITECH COMPUTER SCIENCE BUILDING

Fall River, Massachusetts, USA

Situated in the southeastern part of Massachusetts with a panoramic glass façade that capitalizes on water views, the Meditech Computer Science Building in Fall River is a tribute to the community and a major component of the area's economic revival. To provide advanced energy performance and meet Massachusetts' stringent thermal requirement, the building features a Kawneer Advanced Façade. Using a collaborative approach, the Advanced Façade features high-performance glass, thermally broken doors and windows, and motorized sun screen systems integrated into the versatile curtain wall.

ARCHITECT

Payette Associates Inc.
Boston, Massachusetts, USA

GLAZING CONTRACTOR

Tower Glass Company
Woburn, Massachusetts, USA

ADVANCED FAÇADE FABRICATOR

Erie Architectural Products Inc.
Blenheim, Ontario, Canada

KAWNEER PRODUCTS

1600 Wall System®1
7500 Wall®
560 Insulclad® Thermal Entrances
8225TL ISOLOCK® Windows
2000T Terrace Doors

Above: 1600 Wall System®1 outfitted with motorized shades provide maximized daylight and views while offering sunshading, thereby contributing to the overall indoor environmental quality of the building.

Below: The combination of high-performance Kawneer thermal products 7500 Wall®, 1600 Wall System®1 and 560 Insulclad® Thermal Entrances reduced thermal transmittance and help optimize energy performance throughout the facility.



KAWNEER ADVANCED FAÇADE

Exterior view of model

LOW-IRON CONTENT GLASS

in transom areas provides maximum visible light transmittance.

PASSIVE SUNSHADES are designed to shade interiors and optimize energy performance by reducing solar heat gain.

HIGH-PERFORMANCE THERMAL CURTAIN WALL SYSTEMS are designed to reduce thermal transmittance and optimize energy performance.

HIGH-PERFORMANCE GLASS such as triple-glazed, Low-E coated glass provides superior insulating performance, permits high visible light transmittance and minimizes solar heat gain.

PHOTOVOLTAIC (PV) PANELS produce electricity by capturing the energy of the sun and creating on-site renewable energy. Today's semitransparent finishes allow you to create stunning PV installations that look identical to tinted glass.



KAWNEER ADVANCED FAÇADE

Interior view of model

LIGHT SHELVES reflect natural light deeper into occupied spaces and have proven to reduce requirements for artificial perimeter lighting. Conserved electrical energy costs and improved indoor environmental quality are the result.

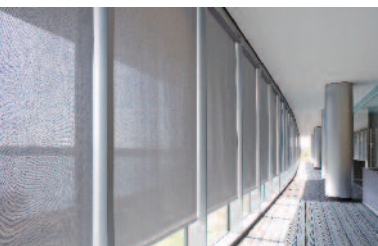
MOTORIZED LOUVERS are designed to provide the ultimate sun control with light-directing louver blades that can be linked into building control systems for actuation and automation.

MOTORIZED SHADES & SHADECLOTHS provide additional shade to interiors and optimize energy performance by reducing solar heat gain when you need it. They can be linked into building control systems for actuation and automation.

VENTILATORS improve indoor environmental quality by providing controllable natural ventilation. Modular insert ventilators, add natural, concealed air circulation in fixed frames.

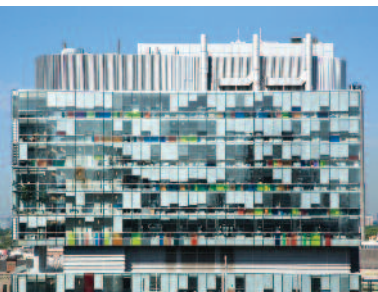
INSULATED BACK PANS provide an additional layer of thermal barrier to the building envelope at spandrel areas, thereby optimizing energy performance and contributing to the overall thermal comfort of the building.





MEDITECH COMPUTER SCIENCE BUILDING
Fall River, Massachusetts, USA

By incorporating motorized shades and shade cloths into 1600 Wall System®1 maximum daylight and views of the exterior are not compromised while additional shade can be provided to the interior.



UNIVERSITY OF TORONTO, TERENCE DONNELLY CENTRE FOR CELLULAR AND BIOMOLECULAR RESEARCH
Toronto, Ontario, Canada

This high-tech project showcases a double façade exterior curtain wall.

QUALITY PRODUCTS. COLLABORATIVE APPROACH. PROVEN EXPERTISE.

As the industry's leading source for architectural aluminum products and systems and a member of the U.S. Green Building Council, Kawneer has proven capabilities in engineering advanced façades, collaborating with strategic suppliers and bundling a variety of products and systems best suited for your application. Our ability to manufacture and procure products of excellent quality, range and performance makes the difference.

Kawneer's base knowledge and product portfolio are the launching points for this new way of thinking by integrating complementary products, thereby creating a sustainable, high-performance system. From curtain wall, skylights and light shelves, to windows, ventilation and sunshades, our range of products helps contribute to Leadership in Energy and Environmental Design (LEED) credits across several categories. This collaborative approach encourages the integration of sustainable components from product categories such as high-performance glazing, motorized sun screen systems or photovoltaic technology.

ENGINEERING EXPERTISE.

At Kawneer, our engineering expertise makes us one of the most knowledgeable advanced façade design specialists in the industry. Our in-house team has the integration knowledge to engage early in your project — utilizing our energy modeling capabilities to find the optimal solution for energy efficiency. We perform daylighting simulations to model the effects of glazed openings and estimate the energy savings of sun-harvesting products. Our sunshading simulations can anticipate the potential energy benefits of sun-controlling products such as our 1600 SunShade® and 1600 Powershade®.

With extensive product knowledge and materials expertise, Kawneer's Architectural Services Team is also available to assist you. Our dedicated team provides technical support, helping you achieve regulatory standards and assisting you with the LEED certification process. In addition, our growing library of BIM product models across six major categories provides a virtual hand to help bring your designs to life.

LEADERSHIP. INNOVATION. COLLABORATION.

For more than a century, we have fulfilled the promise of today and championed the possibilities of tomorrow. Kawneer's Advanced Façade solutions lead by example. We are committed to the environment, developing inspired initiatives for a new way of thinking about sustainable solutions. We also have the strength and support of our parent company, Alcoa, which is consistently recognized as one of the world's most sustainable companies. And our proven expertise allows us to collaborate with strategic suppliers and architects to deliver the most effective solutions for optimal performance. We are dedicated to delivering a range of innovative products, systems, tools and support to help meet your needs for energy savings and indoor environmental quality.

Kawneer Advanced Façades — A New Way of Thinking.



Printed using soy based inks.

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