# Curtain Wall & Overhead Glazing

KAWNEER

AN ALCOA COMPANY

# Curtain Wall

Kawneer offers a comprehensive line of architectural aluminum building products and systems for commercial construction – entrances, framing systems, windows and curtain wall systems. For over a century, Kawneer has been recognized as an innovator. Since that time, we've balanced experience with change and ongoing improvement. We strive every day to develop solutions that promote integrated, sustainable building practices, and we are dedicated to providing the tools our customers need to succeed. Thermal breaks, condensation management and building integrated photovoltaic (BIPV) and unitized curtain walls are just a few examples of how we have responded to customer needs.

## Hurricane Resistant and Blast Mitigation Products

Kawneer offers single-source responsibility with a comprehensive group of independently tested hurricane resistant and blast mitigation products. Many hurricane resistant products have received Notices of Acceptance (NOAs) issued by Miami-Dade County BCCO and Florida State Approvals. Blast mitigation products meet requirements of the General Services Administration (GSA), Interagency Security Committee (ISC) and Department of Defense (DoD). For more information, visit Kawneer.com.
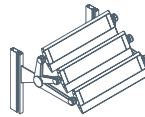
## Custom Curtain Wall
**Selected for the world's most recognized buildings**
Engineering and design expertise  |  Established leadership in major applications around the world

## 1600 PowerShade®
**Provides a single-source solution and optimal shade while generating solar power and reducing energy use**
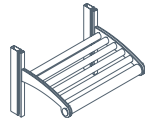Pre-engineered sunshade system effectively reduces solar heat gain  |  Dual-position pivot system provides optimal angle and extension for shading any location  |  Can be directly connected to 1600 Wall System®1

## Versoleil™ SunShade: Outrigger System
**An economical, pre-engineered and integrated sunshade with mix-and-match design choices**
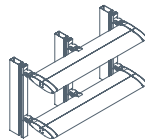Standardized design compatible with 1600 Wall System®1, 1600UT System™1, 1600 Wall System®5 and 1600 SS™  |  Shades interiors and conserves energy with 30" and 36" projection options  |  Provides a single-source solution  |  Outriggers, fascia caps and louvers are available in several shapes

## Versoleil™ SunShade: Single Blade System
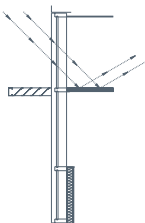**Shades of versatility in form and function**
Standardized solution for seamless integration with 1600 Wall System®1, 1600 Wall System®2, 1600 Wall System®5, 1600 SS™ and 1600 SS™ SSG curtain wall systems  |  Highly versatile design allows for blades to be mounted in horizontal or vertical configurations  |  Innovative mounting design allows for multiple angles in both horizontal and vertical configurations  |  Multiple blade sizes ranging from 6" to 14" deep

## InLighten® Light Shelf
**Reduces the need for artificial lighting by passively channeling natural daylight into an occupied space**
Light shelf features aluminum chassis and painted Aluminum Composite Material (ACM) panel surfaces  |  Attaches directly to 1600 Wall System®1 and System®2  |  Two designs include fascia cap or continuous panel "rout and return"  |  Four standard and custom fascia profiles available



Custom 2500 PG Unitwall™ (4-side SSG), HPS® (High Performance Sliding) Doors, 2000T Terrace Doors, Alcoa – Reynobond® ACM 4mm PE and 4mm FR Panels
W Hotel, Austin, Texas
LEED® Registered project
**Architects:** Andersson-Wise Architects, Design Architect, Austin, Texas, and BOKA Powell, Architect of Record, Dallas, Texas
**Glazing Contractor:** Win-Con Enterprises, New Braunfels, Texas



1600 Wall System®2 with 1600 SunShade®, Alcoa – Reynobond® and Reynolux® Panels
Arkansas Department of Environmental Quality, Little Rock, Arkansas
LEED® Gold certified
**Architects:** Taggart Foster Currence Gray Architects, Inc., North Little Rock, Arkansas, and Williams & Dean Associated Architects, Little Rock, Arkansas
**Glazing Contractor:** ACE Glass Co., Inc., Little Rock, Arkansas



1600 Wall System®1, Trifab® VG (VersaGlaze®) 451T Framing, 1600 SunShade®, 500 Heavy Wall™ Entrances
Consol Energy Center, Pittsburgh, Pennsylvania
LEED® Gold certified
**Architects:** Populous, Kansas City, Missouri, and Astorino, Pittsburgh, Pennsylvania
**Glazing Contractor:** D-M Products, Inc., Bethel Park, Pennsylvania, and Universal Glass, Detroit, Michigan

1600 Wall System®3, 1600 Wall System®4, with AA®3900 Thermal Sliding Doors, 2000T Terrace Doors and 350 Medium Stile Entrances
Glass House, Denver, Colorado
**Architect:** The Preston Partnership, LLC, Atlanta, Georgia
**Glazing Contractor:** El Paso Glass Company, Denver, Inc., Aurora, Colorado
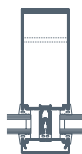


1600 Curtain Wall, 2250 IG (Inside Glazed) Curtain Wall, 2000 Skylight, Trifab® VG (VersaGlaze®) 450 Framing, 350 Standard Entrances
Art Gallery of Alberta, Edmonton, Alberta, Canada
**Architects:** Randall Stout Architects, Los Angeles, California,  USAHIP Architects, Edmonton, Alberta, Canada
**Glazing Contractor:** Flynn Canada, Acheson, Alberta, Canada



1600 SS™ Curtain Wall, 7500 Wall®, InLighten® Light Shelf, 350 Medium Stile Entrances, Alcoa – Reynobond® ACM Panels
Advocate Lutheran General Hospital and Children's Hospital Patient Care Tower, Park Ridge, Illinois
LEED® Gold certified
**Architect:** OWP/P | Cannon Design, Chicago, Illinois
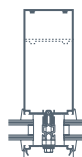**Glazing Contractor:** Arcadia Products, Inc., Northbrook, Illinois

## 1600 PowerWall® and 1600 PowerSlope®          08 44 00
Combines 1600 Wall System®1 and 1600 Sloped Glazing and photovoltaic (PV) panels that convert light energy from the sun directly into electricity without using fossil fuels
Fully compatible with 1600 Wall System®1 and 1600 Sloped Glazing for vertical and sloped glazed applications

## 1600 Wall System®1 and 1600 Wall System®2
Reliable curtain wall systems with versatile features
Pressure equalized systems for low- to mid-rise applications
System1 – outside glazed, captured system
System2 – outside glazed, structural silicone glazed system
Concealed fastener joinery creates a smooth, monolithic appearance | Continuous thermal separator reduces heat gain and loss | Large- and small-hurricane missile impact tested | Blast tested to ASTM F 1642 standards
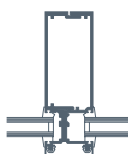
## 1600UT (Ultra Thermal) System™1 and 1600UT System™2
Ultra-innovative solution raises standards for thermal performance
System1 – outside glazed, captured system
System2 – outside glazed, structural silicone glazed system
Built on the success of the flagship 1600 curtain wall platform, the 1600UT System™ delivers high thermal performance, versatility, reliability and value | Ideal for low- to mid-rise commercial applications where high thermal performing façades are needed | Accepts double or triple glazing

## 1600 Wall System®3 and 1600 Wall System®4
Inside/outside glazed curtain wall system
System 3 has a 2-1/2" profile
System 4 has a 2-1/4" profile
Incorporates IsoStrut® Thermal Break for superior structural and thermal performance | Allows for a structural silicone glazing option | Integral exterior cover and thermal isolator reduce installed cost | Inside glazing reduces installation costs | Outside glazing option for spandrel re-glazing

## 1600 Wall System®5
An inside glazed curtain wall/ribbon window system
2-1/2" profile | Offered in 7-1/2" system depth and optional 6" system depth | Shear block construction for fabrication versatility | Structural silicone glazed option | Optional split mullion design with screw spline construction for ease of installation and fabrication | Allows two-color design options

## 1600 SS™ (Screw Spline) / 1600 SS Unitwall™ (Pre-glazed option)
Shop assembled for faster field installation
Outside glazed captured or SSG curtain wall | Concealed screw spline joinery allows for shop assembly | Unique interlocking mullion design eliminates the need for anti-buckling clips | System depths and sightline match 1600 Wall System®1 and System®2 | 1600 SS Unitwall™ allows units to be pre-glazed in the shop | 1600 SS™ blast tested per ASTM F 1642 and GSA -TS01-03 standards

## Clearwall™ Curtain Wall
Achieves an all-glass monolithic aesthetic in a field glazed, screw spline application
Innovative toggle assembly captures glass, eliminating field application of structural silicone | 6 glazing options use the toggle-based glass retention system | No structural silicone required for Clearwall™ SS/SB glazing options, which use the toggle to directly capture recessed spacer glass | Other glazing options use a metal interface attached to standard 1" insulating glass | Screw spline joinery method allows shop assembly of ladder sections, reducing field labor | Deeper mullions with shear block joinery allow for higher free span applications

## 7500 Wall®

**Exceptional thermal performance and resistance to condensation**

Incorporates high-performance IsoWeb® thermal break **|**
Accomodates 1" double-glazed or 2" triple-glazed insulating glass
units **|** Exterior pressure glazed system

## 2500 PG Unitwall™

**A high-performance unitized curtain wall system**

Available in stock length, fabricated or pre-assembled and glazed
units **|** Unitized construction accelerates installation **|** Available
systems include 4-sided captured, vertical and horizontal SSG
(Structural Silicone Glazed) or 4-sided SSG **|** 2-1/2" x 7-1/2" profile **|**
Suitable for new construction or remodel **|** Dual finish capabilities

## 1600 L-R (Low-Rise) Wall®

**Economical stock length system for low-rise applications**

Outside glazed pressure plate system available in captured or
two-sided vertical SSG option **|** Standard 5-3/4" or 7-1/4" depth
systems **|** Shear block construction utilizing concealed fasteners

## 2250 L-R (Low-Rise) Wall

**The economical system designed for low-rise applications**

Economical stick system with no-compromise performance **|**
Utilizes a polymer thermal clip, allowing for easier installation
and labor savings **|** 2-1/4" sightline **|** Design flexibility allows a
structural silicone glazed option **|** Mullion drained design

## 2250 IG (Inside Glazed)

**An economical, inside glazed ribbon window/curtain
wall system**

Narrow 2-1/4" profile **|** Offered in 4-1/2", 6" and 7-1/2" system
depths **|** Shear block and screw spline construction for easy
fabrication **|** Structural silicone glazed option **|** Allows two-color
design options **|** Thermally improved

# Overhead Glazing

## 1600 Sloped Glazing and 2000 Skylight

**Curtain wall performance in overhead glazing systems**

Stick system – fully factory fabricated **|** Silicone glazed or captured
purlin options **|** Flush grid exterior has a 2-1/2" sightline **|** Various
mullion depths to meet wind and snow loads **|** Handles hip and valley
rafter applications

Cover photo:
1600 Wall System®1, 1600 Wall System®2, Trifab® VG
(VersaGlaze®) 451T Framing, Trifab® VG (VersaGlaze®) 450
Framing, 350 Medium Stile Doors, Custom 1600 SunShade®,
Alcoa – Reynobond® ACM (Aluminum Composite Material) Panels
Georgia Gwinnett College Library and Learning Center,
Lawrenceville, Georgia
LEED® Gold certified
**Architect:** LEO A DALY, Atlanta, Georgia
**Glazing Contractor:** Glass Systems, Inc., Lithonia, Georgia

# Finishes

### Anodized Finishes
Long-lasting, protective coatings resist
abrasion, corrosion and UV rays, and meet
or exceed AAMA 611

### Architectural Metals
Light satin is a Class I finish with a chrome-like
brightness and light brushed texture **|** Available
on a variety of products

### Clear Finishes
Available in Anodized Class I (#14) or Class II (#17)

### Permanodic® Finishes
Available in Color Anodized Class I (#40 Dark
Bronze, #29 Black, #28 Medium Bronze, #26 Light
Bronze and #18 Champagne)

### Painted Finishes
**Fluoropolymer Coatings – Enduring color with
high performance and durability**
Available in many standard choices and unlimited
custom colors **|** These include Permafluor™ and
Permadize® finishes, which meet or exceed AAMA
2604 or AAMA 2605

**Powder Coatings – Create a "green" element
with solvent-free high performance, durability
and scratch resistance**
Permacoat™ finishes available in 24 standard
colors **|** Powder Coatings meet or exceed
AAMA 2604

### Notice
Laws and building and safety codes governing the
design and use of windows, glazed entrance, framing,
curtain wall and overhead glazing products vary widely.
Kawneer does not control the selection of product
configuration, operating hardware or glazing materials,
and assumes no responsibility thereof.

Information contained in this catalog is subject to
change without notice.

**Other Products from Kawneer**
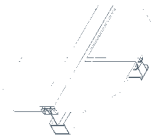Entrances & Framing 08 41 00; Windows 08 51 00

### For More Information
Visit Kawneer.com for more detailed information,
including the most current Guide Specifications, CAD
libraries and BIM product models.

**KAWNEER**
AN ALCOA COMPANY