

# Curtain Wall & Overhead Glazing



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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 Products

Kawneer offers single-source responsibility with a comprehensive group of independently tested, hurricane resistant products. Many have received Notices of Acceptance (NOAs) issued by Miami-Dade County BCCO and Florida State Approvals. For more information, visit our website at Kawneer.com.

## Custom Curtain Wall

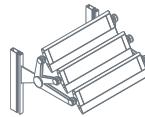
Selected for the world's most recognized buildings

Engineering and design expertise | Worldwide manufacturing and distribution | Established leadership in major applications around the world

## 1600 PowerShade®

Provides optimal shade and single-source solution while generating solar power and reducing energy use

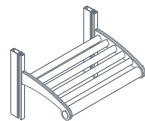
Pre-engineered sunshade system effectively reduces solar heat gain | Dual position pivot system provides optimal angle and extension for shading any location | Can be directly connected to 1600 Wall System®1



## 1600 SunShade®

An economical, pre-engineered and integrated sunshade with mix-and-match design choices

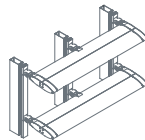
Standard sunshade that integrates easily into outside glazed 1600 Wall System®1 or inside glazed 1600 Wall System®5 | Shades interiors and conserves energy with a 30" projection | Provides a single-source solution | Outriggers, fascia caps and louvers are available in several shapes



## Versoleil™ SunShade: Single Blade System

Shades of Versatility in form and function.

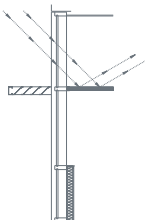
Standardized solution for seamless integration with 1600 Wall System®1, 1600 Wall System®2, 1600 SS™ and 1600 SS™ SSG curtain wall systems | Highly versatile design allows for blades to be mounted in horizontal or vertical configurations | Innovative mounting design allows for multiple angles in both 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



1600 Wall System®1, 350 Medium Stile Entrances and GLASSvent® frameless ventilators  
Greenburgh Public Library, Elmsford, New York  
Architect: BH&A Architects, New York, New York  
Glazing Contractor: AFI Glass & Architectural Metal, Inc., Poughkeepsie, New York



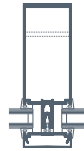
1600 Wall System®2 with 1600 SunShade®  
Arkansas Department of Environmental Quality, Little Rock, Arkansas  
LEED® Gold certified  
Architects: Taggart Foster Currence Gray Architects, Inc., North Little Rock, Arkansas and Williams & Dean Associated Architects, Little Rock, Arkansas  
Glazing Contractor: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



7500 Wall®, 1600 Wall System®1, 2000 Skylight, Trifab® VG 450 Storefront Framing, 190 Narrow Stile Entrances and 8225 TL IsoLock® Windows  
Pennsylvania State University - Dickinson School of Law, Lewis Katz Building, University Park, Pennsylvania  
Seeking LEED Certification  
Architect: Polshek Partnership Architects, LLP, New York, New York  
Glazing Contractor: D-M Products, Inc., Bethel Park, Pennsylvania



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 PowerWall® and 1600 PowerSlope®

08 44 00

Combines 1600 Wall System®1 and 1600 S.G. 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 S.G. (Sloped Glazing) for incorporating into vertical and sloped glazed applications

### 1600 Wall System®1 and 1600 Wall System®2

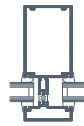
Reliable systems with versatile features These are pressure equalized curtain wall systems for low to mid-rise applications

System®1 is an outside glazed, captured curtain wall System®2 is an outside glazed and structural silicone glazed (SSG) curtain wall

The captured and SSG versions can be used independently or together | Concealed fastener joinery creates a smooth, monolithic appearance | Continuous thermal separator reduces heat gain and loss | Dual finish options, allowing different interior and exterior color finishes | Standard 6", 7-1/2" and 10-1/2" overall system depths | 1600 Wall System®1 and System®2 have been tested for hurricane resistance for both large and small missile impacts | Blast tested to ASTM F 1642 standards



7500 Wall® with 2000 Skylight  
PCL Centennial Learning Centre, Edmonton, Alberta, Canada  
LEED® Gold certified  
Architects: Cohos Evamy integratedesign™, Edmonton, Alberta, Canada  
Glazing Contractor: Beacon Glass Products Ltd., St. Albert, Alberta, Canada



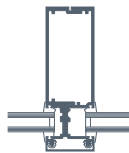
### 1600 Wall System®3 and 1600 Wall System®4

Inside/outside glazed curtain wall system

System®3 has a 2-1/2" profile

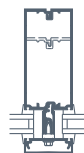
System®4 has a 2-1/4" profile

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

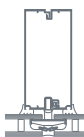
An inside glazed curtain wall/ribbon window system 2-1/2" profile | Offered in 7-1/2" system depth and optional 6" system depth | Shear block construction for fabrication versatility | Structural silicone glazed option | Optional split mullion design with screw spline construction for ease of installation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



### 1600 SS™ (ScrewSpline) / 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



Modified 1600 SS™ (Screw Spline) used at horizontal strip application, 1600 Wall System®1, 350 Medium Stile Entrances, 190 Narrow Stile Entrances and Trifab® VG 450 Storefront Framing  
77 CityPoint, Waltham, Massachusetts  
LEED® Gold certified  
Architect: Tsoi/Kobus & Associates, Cambridge, Massachusetts  
Glazing Contractor: Ipswich Bay Glass, Co., Rowley, Massachusetts

### 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 | 3 glazing options use the toggle based glass retention system | No structural silicone required for Clearwall™ SS glazing option which uses the toggle to directly capture recessed spacer glass | Other glazing options use metal interface attached to standard 1" insulating glass | Screw spline joinery method allows shop assembly of ladder sections, reducing field labor

## 7500 Wall®

Exceptional thermal performance and resistance to condensation

Incorporates high-performance IsoWeb® thermal break | Accommodates 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 2250 L-R has a 2-1/4" sightline

Economical stick system with no compromise performance | Utilizes a polymer thermal clip, allowing for easier installation and labor savings | 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 S.G. (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 SS (Screw Spline) Unitwall™ curtain wall (modified), GLASSvent for Curtain Wall

Lindsey-Flanigan Courthouse, Denver, Colorado

Architect: klipp Architecture Planning Interiors, Denver, Colorado

Glazing Contractor: Trainor Glass, Denver, Colorado

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# Finishes

## Anodized Finishes

Long-lasting, protective coatings resist abrasion, corrosion, 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 our website at Kawneer.com for more detailed information, including the most current Guide Specifications, CAD libraries and BIM product models.

