SKYLIGHTS CURTAIN WALL SUN CONTRO

# making every project materially better

Together with our customers, architects, contractors, and owners, we are building a better future. One where we each make meaningful contributions to the world in which we live, work, heal, learn, and play.

For us, this begins with our commitment to make every project materially better. As the only vertically integrated, single-source provider of high-performance building solutions, we sweat every detail because we believe it makes buildings more sustainable, communities stronger and society better.

For over 30 years, our team of experts have been in it with you—solving challenges to deliver results and peace of mind. Your trust, and our discipline, powers us for the challenges ahead. Let's solve it, together.

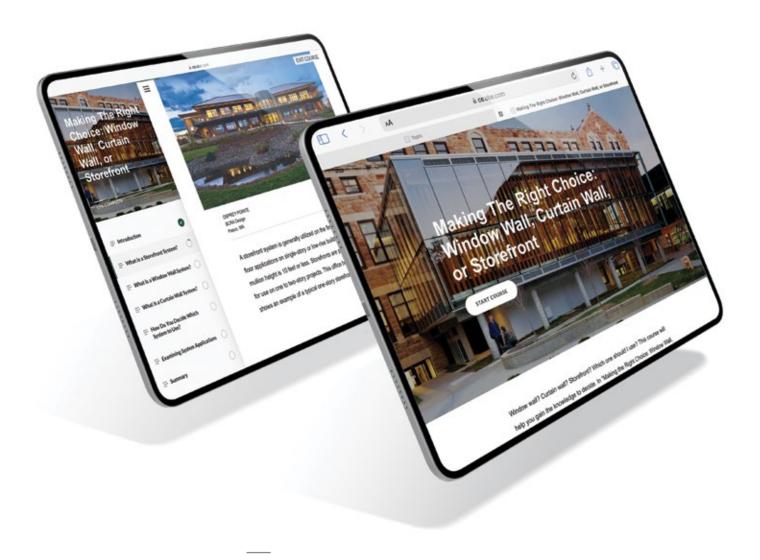


# Working with you from start to finish

Our approach is one of integration—integrated products, processes, and teams. Our experts partner with you throughout the design and construction process to ensure project success. This collaboration is fulfilled through a suite of service solutions: from full-service design-assist to design consultation, or access to support, design, and education tools. Our teams are available to deliver 360-degree solutions from project start to completion, supporting you at every stage of the process. OBE360, a dedicated team of experts, support the specific needs of design-assist projects to ensure transparent collaboration aligned with design intent. Whether your project requires standard products, tools and services or full design consultation and assistance, our team is in it with you to enable efficiency and make every project materially better.



# Innovative technologies



### **OBE** Academy

Sharpen your skills, master the changing market, and learn the foundational techniques for success in your role with on-demand, AIA-approved continuing education courses.

# to get you there faster



## **SystemSelect**™

Compare thermal performance for complete architectural glass and metal systems using glass products or COG.

Measure U-factor, download LEED documentation, and more!



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ENTRANCES & S





Curtain wall systems are designed to provide the performance, aesthetics and flexibility required to deliver best-in-class projects with ease and efficiency. Our comprehensive selection of custom and standard curtain wall solutions provide exceptional thermal performance, unrivaled seismic capabilities, hurricane-resistance and much more.

Whether ordered fully assembled and glazed, fabricated and knocked down, or in stock length form for customer fabrication, our products are available to meet the needs of any project size, scope and timeline, so you can choose the right solution for each job. In addition, our systems are designed to integrate seamlessly with our architectural windows and vents, sunshades and much more. Together with our architectural glass offering, you have complete system solutions at your fingertips.

From universities and hospitals to stadiums and offices, our solutions have been trusted to deliver excellence to the most discerning projects.

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Eastern Washington University Interdisciplinary Science Center Cheney, WA LMN Architects

Curtain Wall Entrances & Storefronts OBE360 Design Assist







#### ▲ above

**FireKeepers Casino Hotel**Battle Creek, MI
JCJ Architecture

Curtain Wall, Entrances & Storefronts

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**Woburn Public Library** Woburn, MA CBT Architects

Sun Controls, Curtain Wall, Entrances & Storefronts

# Curtain Wall



#### RELIANCE™

- Exceptional water control and thermal performance
- Pressure-equalized and zone glazed
- 2-1/2" Sightline
- 5-1/4" to 10-3/8" System depths with veneer options
- Infill: 1/4", 1", 1-1/4"



#### RELIANCE™-TCLT

- Exceptional thermal performance, without triple glazing
- Pressure-equalized and zone glazed
- 2" Sightline
- 6" to 7-1/2" System depths
- Lightweight, easy to install
- Meets seismic zone requirements
- Infill: 1"



#### RELIANCE™-TC

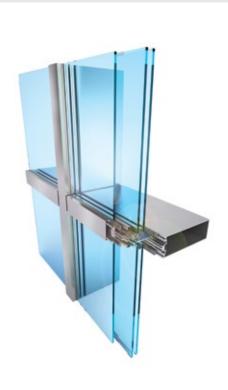
- Thermally broken with outside glazing
- Pressure-equalized and zone glazed
- 2-1/2" Sightline
- 6" to 7-1/2" System depths
- Infill: 1"



#### RELIANCE™-TC-IG

- Thermally broken with inside glazing
- Pressure-equalized and zone glazed
- Entrance door and operable window adaptability
- 2-1/2" Sightline
- 6" and 7-1/4" System depths
- Infill: 1"

# Curtain Wall



#### RELIANCE<sup>™</sup>-HTC

- Triple glazed, superior thermal performance
- Outside glazed; 2-sided structurally glazed
- 2-1/2" Sightline
- 6-1/4" to 8" System depths
- Infill: 1-3/4", 2"



#### RELIANCE™ UNIT WALL

- Unitized system; available in stock lengths, fabricated KD, or fully assembled and glazed
- 2-sided or 4-sided structurally glazed
- 2-1/2" Sightline
- 6-1/4" to 8" System depths
- Infill: 1"



#### **RELIANCE™ CASSETTE**

- 4-sided structurally glazed
- Shop glazed infill
- New or retrofit application onto existing curtain wall
- 2-1/2" Sightline
- 6-3/4" to 10-7/8" System depths
- Infill: 1"



#### RELIANCE" STORMMAX\*

- Hurricane resistant; FPA, TDI
- 2-sided structurally glazed
- 2-1/2" Sightline
- 7-1/2" System depth
- Infill: 1-5/16" laminated insulating glass





Providing endless design possibilities and greater design flexibility, our innovative custom-engineered and standard window wall solutions offer ease of installation, meet various levels of thermal performance, and are tested to market and project-specific requirements.

Commonly used in ribbon window configurations or punched openings, our window wall solutions offer flexible applications providing uninterrupted views and a streamlined aesthetics on buildings of all sizes. A variety of depth and sightline configurations coupled with inside and outside glazing options make these solutions ideal for many project applications including high-rise multifamily, offices and medical buildings.

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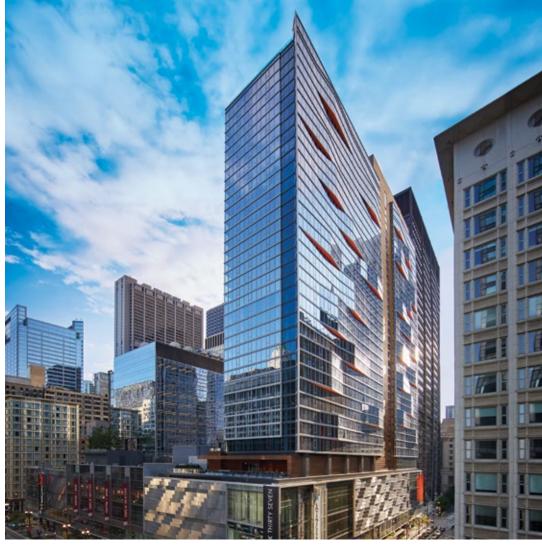
**Hotel Zachary** Chicago, IL

Stantec/VOA Associates

Window Wall Entrances & Storefronts







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**Marquee at Block 37** Chicago, IL Solomon Cordwell Buenz

Window Wall, Entrances & Storefronts

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#### Niche 905

Chicago, IL FitzGerald Associate Architects

Window Wall

# Window Wall



#### **RW-5100 STORMMAX®**

- Hurricane Resistant; FPA, TDI
- Inside glazed front set; pre-glazed option
- 2-1/2" Sightline
- 6-1/4" System depth
- Infill: 1-5/16"



#### **TCR-225**

- Visually seamless with integrated slab covers and high thermal performance
- 2-sided or 4-sided structurally glazed
- Pre-glazed, dry glazed, inside glazed options
- 2-1/4" Sightline
- 5" System depth
- Infill: 1"



#### ICR-225

- Thermal performance
- Inside glazed
- 2-1/4" Sightline
- Offers two system depths for greater design flexibility: 4-1/2" or 6" depths
- Infill: 1"



#### SIGNATURE SERIES SGHT

- High thermal performance
- Outside glazed; 4-sided structurally glazed
- 2-1/2" Sightline
- 6" System depth
- Infill: 1-3/32"





As a leader in the design and manufacturing of both custom and standard architectural and heavy commercial windows, our comprehensive product portfolio and unique engineering capabilities can meet any application with a variety of AW rated products.

We provide single-source solutions for architectural windows, including zero-sightline vents, fixed and operable windows and specialty products for unique and complex designs.

Tested for thermal performance, hurricane and blast-resistance and more, these solutions are ideal for both new construction and retrofit applications in a variety of project types.

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Harvey Mudd College, McGregor Computer Science Center Claremont, CA Steinberg Hart

Curtain Wall, Entrances and Architectural Windows

# **Architectural Windows**



#### SIGNATURE SERIES

#### 12PL-14PL-16PL

- Excellent value-based product
- Tubular sash and meeting rails
- Pour and debridge thermal break technology
- Lap sash-to-frame design
- Shop glazing available
- 2-1/2", 3-1/2", 4-1/2" Frame depths
- Infill: 1/4" to 1-1/4"



#### SIGNATURE SERIES

#### 3-1/4" LAP AND 5" LAP

- Enhanced wind load performance
- Enhanced thermal performance
- Tubular sash and meeting rails
- Polyamide thermal break technology
- Backbed glazing
- Lap sash-to-frame design
- 3-1/4" and 5" Frame depths
- Infill: 1" to 2"



#### SIGNATURE SERIES 3375

- Tubular sash and meeting rails
- Enhanced thermal performance
- Polyamide thermal break technology
- Backbed glazing
- Lap sash-to-frame design
- 3-3/8" Frame depth
- Infill: 1" to 2"



#### ZS-2750

#### **PROJECT OUT STORMMAX®**

- Zero sightline
- Compatible with window wall, storefront and curtain wall systems; not a stand-alone system
- Tubular sash
- StormMax hurricane resistant option available
- 3" Frame depth
- Infill: 1"



# **Architectural Windows**



#### SIGNATURE SERIES

#### **ZERO SIGHTLINE-HT**

- Excellent thermal performance
- Zero sightline
- Tubular sash
- Thermally broken
- 3-3/4" Frame depth
- Infill: 1" to 1-3/4"



#### **PINNACLE SERIES 66P**

- Human impact (2000 ft-lb)
- Tubular sash
- Pour and debridge thermal break
- 5/8" or 1" blinds options
- 4" Frame depth
- Infill: 1" (frame), 1/2" (access panel)





At OBE, we design, engineer and manufacture fully integrated all-glass and aluminum storefront and entrance systems. Our extensive mix of standard and custom solutions are engineered and manufactured to provide a variety of performance options, system depths, sightlines, infill options, and configurations, all while maintaining ease of installation, functionality, durability, and aesthetics. With the largest national footprint of any manufacturer, we are wherever you and your projects are.

These solutions are specified and selected for applications in education, retail and recreational projects for their durability and flexibility. Their performance characteristics coupled with recognized testing for hurricane and impact resistance, forced-entry resistance and blast resistance, make this suite of solutions as versatile as it is broad.

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### **New Deantronics**

Sparks, NV Tectonics Design Group

Curtain Wall, Entrances & Storefronts



## Entrances & Storefronts



## STANDARD NS-212/ MS-375/WS-500

#### **ALUMINUM ENTRANCE**

- High traffic applications
- Maximum security hook bolt locks
- Threshold designed to current ADA standards
- Infill: 1/4",3/8",5/8" and 1"
- Max Height: 120"
- Max Width: 48"



#### MS-375TC/WS-500TC

## THERMAL COMPOSITE ENTRANCE

- High traffic applications
- High thermal performance
- Available as a single door, pair of doors or in sets of singles
- Infill: 1" insulating or 1-1/2" triple glazing
- Max Height: 96"
- Max Width: 48"

## Entrances & Storefronts



#### **RUGGED DOOR & FRAME**

- High traffic applications
- ADA threshold
- Forced entry resistance
- Narrow, medium and wide stile
- Infill: 1/4" to 1"



#### **ENTRANCE DOOR:**

## **ALL GLASS**

- High traffic applications
- Virtually invisible and trouble-free
- Swinging or sliding doors
- Stacking or bifold panels
- Glass Thickness: 3/8" to 3/4"
- Max Height: 120"



#### **MS-360 MALL FRONT: SLIDING**

- Conventional multi-sliding interior door
- Exclusive flange and neoprene bumper system
- Max Height: 144"
- Max Width: 84"



#### **TERRA SWING ACCESS**

- Designed to current ADA standards
- High thermal and water performance
- Outward swing operation
- Infill: 1/4" 1-3/4" overall
- Integral 10" kick rail
- Max Height: 96"
- Max Width: 48"

## Entrances & Storefronts



#### **SERIES 3000**

### THERMAL MULTIPLANE

- High thermal performance
- Front, center, back and multi-set configurations
- 2-sided structurally glazed, multiplane
- Inside glazed, outside glazed
- 2" Sightline
- 4-1/2" System depth
- Infill: 1"



#### **SERIES 6000**

## THERMAL MULTIPLANE

- High thermal performance
- Front and center set options
- 2-sided structurally glazed, multiplane
- Inside glazed, outside glazed
- 2" Sightline
- 6" System depth
- Infill: 1"



## FG-2000

## **STOREFRONT**

- Versatile interior or exterior applications
- Screw spline, shear block, stacking options
- 1-3/4" Sightline
- 4-1/2" System depth
- Infill: 1/4"-3/8"



#### **THERMASTACK**

- High thermal performance
- Front set stacking system
- Inside glazed, outside glazed, 2-sided structurally glazed
- 2" Sightline
- 4-1/2" System depth
- Infill: 1"

## Entrances & Storefronts



#### **ARMORDEFEND™ STOREFRONT**

- Forced-entry resistant, high thermal performance storefront
- Designed and tested with ArmorGarde glass
- Outside glazed, wet or dry glazed
- 2", 2-1/2" Sightline
- 4-1/2", 5" System depths
- Infill: 1", 1-1/4"



#### **ARMORDEFEND™ ENTRANCE**

- Forced-entry resistant
- Designed and tested with ArmorGarde glass
- Medium and wide stiles
- Dry glaze and wet glaze options
- Infill: 7/16"



### FG-5700, FG-5750, FG-5750T STORMMAX\* STOREFRONT

- Hurricane resistant; FPA, TDI
- Inside, outside, wet or dry glazed
- Pre-glazed option
- 2-1/2" Sightline
- 5" System depths
- Infill: 9/16", 1-5/16"



#### MSD-375/WSD-500

## **STORMMAX® ENTRANCE**

- High traffic applications
- Hurricane resistant, HVHZ, FPA, TDI
- Infill: 9/16", 1"
- Max height: 120"
- Max width: 48"







From pre-engineered to custom, we offer the most comprehensive line of architectural skylights in the industry. No matter the complexity, our unmatched custom-engineering capabilities and full range of pre-engineered skylights can meet the needs of your design. Our skilled experts provide support in system selection and specification leveraging decades of experience and expertise over numerous project applications.

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**Dupont Circle Metro Station** (North Entrance Canopy) Washington, DC Lourie Architects LIC

Skylights







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## **Tepper School of Business**

Pittsburgh, PA Moore Ruble Yudell Architects & Planners

Architectural Glass and Skylights

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## Florida Polytechnic University

Lakeland, FL Santiago Calatrava Architects & Engineers

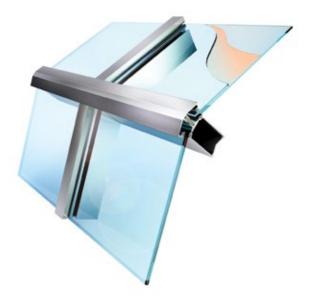
Architectural Glass and Skylights

# Skylights

### **CUSTOM:**

#### BMS-3000

Customized with design versatility and ultra-high performance, the BMS-3000 skylight systems are available in standard and custom configurations with various pitches.



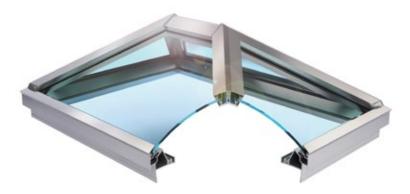
- Tested for air, static and dynamic water resistance, acoustic and thermal performance
- StormMax<sup>™</sup> and BlastMax<sup>™</sup> are available for impact-resistant applications
- Fully-captured, two-sided, and four-sided structural glazing options

- Patented glazing clip creates a thermal break, which improves U-factors, eliminates exposed fasteners, and provides for a positive stop
- BIPV system available

## **PRE-ENGINEERED:**

### VERSALITE™

 $High-performance, pre-engineered, pre-assembled\ ready\ to\ install\ skylight\ system.$ 



- Ships assembled and glazed with monolithic laminated or insulating laminated glass
- Available in hipped ridge, vertical end ridge, and pyramid (up to 8' wide x unlimited, pyramid up to 8' x 8')
- Recycled thermal break aluminum framing for assistance with LEED® credit
- Patented thermal glazing clip technology





Offering tremendous flexibility in both aesthetic and functional design, our sun control solutions can help you improve building energy efficiency, reduce your carbon footprint, and maintain occupant comfort. Our sun control products can fit different applications and integrate seamlessly with our building envelope systems including our curtain wall, window wall and architectural window systems. Available horizontally and vertically with our single blade application, these versatile solutions can be leveraged on projects across North America.

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**Matilda Torres High School** Madera, CA Darden Architects

Sun Controls, Curtain Wall, Entrances & Storefronts



# Sun Controls





#### SOLAR ECLIPSE™

- Airfoil blade: Adjustable single air foil blade configuration provides beautiful building accents and passive solar control.
- Easy onsite installation, either vertically or horizontally
- Projections available at 11", 13", 14", 15" & 17"
- Available in 5" increments up to 35" with no pre-set angle





As North America's leading supplier of architectural glass, we have the most comprehensive portfolio of products available. From hurricane-resistant StormGlass™ to forced-entry resistant ArmorGarde™, our high-performance solutions ensure buildings are secure and resilient. We also offer highly visual design products such as Stackwall® structural glass, i-Glass® decorative glass and point supported structural glass for dramatic all-glass looks.

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**Parkland Hospital** 

Dallas, TX Corgan Associates

Architectural Glass







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#### R&R Realty Group Westfield

West Des Moines, IA SVPA - West Des Moines

Architectural Glass Curtain Wall

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## Solstice on the Park

Chicago, IL Studio Gang

Architectural Glass

## Fabrication

#### **Shower Enclosures**

With a combination of high-quality fabricated glass and close-to-market operations, we offer a full range of products for complete shower door systems. Our frameless, semi-framed, and framed shower enclosures are available in a variety of configurations and glass types, with a wide selection of superior hardware options in numerous styles and finishes.



#### **All Glass Entrances**

For unobstructed views and modern sightlines, our all-glass entrance systems come in many configurations and finishes to compliment virtually any surrounding surface. The solutions can utilize corner patches, continuous rails, or a combination of the two. Many variations, including swinging, sliding, stacking sliding, and bi-folding, are available with our tempered glass entry doors.



With industry-leading fabrication capabilities and quick-turn services, we offer a wide range of products for projects of all sizes. From edging, notching, and surface finishing, to heat-treating, laminating and production of decorative glass products, our unparalleled network of facilities can fabricate solutions to meet specifications for a variety of project types.

### Railings

Deliver clean lines and unobstructed views with our glass handrail systems. Our interior and exterior handrails offer a wide range of customizable sizes with nearly limitless fabrication options in a variety of tints and finishes.



#### **Partitions**

Glass partition systems provide an added level of safety while maintaining sleek lines and modern aesthetics.

Our partitions can be fabricated in nearly limitless shapes to meet aesthetic, acoustical and safety needs. We leverage broad fabrication capabilities to include laminated and decorative glass products to meet a variety of project requirements.



## Laminated

#### **Bullet Resistant**

Designed to resist attacks by a wide range of weapons, our proprietary line of bullet-resistant glazing,
ArmorResist®, ensures the glazing resists penetration by a specified bullet and glass spall is eliminated. Tested to various UL levels, our solutions can be used in a variety of applications requiring added security.



#### **Hurricane Resistant**

Our range of laminated glass products are designed to meet or exceed the stringent code requirements of Florida, Texas and other coastal regions. We supply solutions for hurricane and blast-resistant applications, including the independently tested StormGlass™, that meets the requirements for large glass sizes up to 50 sq ft, giving you the freedom to design larger glazed openings while meeting the most stringent building codes.



Laminated products provide a suite of benefits that meet safety glazing standards and offer advanced security, impact resistance, noise control, UV protection, and much more. From a wide range of security solutions to a wide range of color options, our broad capabilities ensure your projects meet the highest aesthetic and performance requirements.

#### **Forced-Entry Resistant**

We offer a comprehensive collection of forced-entry resistant products for added security in school, retail, medical and institutional environments. These include ArmorGarde and our ArmorProtect and ArmorResist product ranges. These solutions are tested to industry-recognized ASTM standards that resist attack from opportunistic threats providing valuable time for first responders.

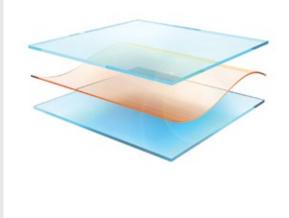




## Laminated

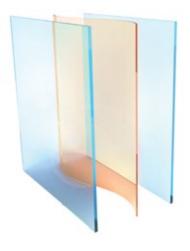
#### **Overhead Glazing**

Laminated glass is preferred for sloped and overhead glazing because the glass is retained in the opening, even when broken, reducing the possibility of injury from falling glass. Typically, heat-strengthened laminated glass is used in sloped glazing either monolithically or as the inboard lite of an IG unit.



#### **Sound Control**

Laminated products offer a much higher Sound Transmittance Class (STC) than standard, monolithic glass. Fabricated as standard laminated glass, as part of an IG unit, or as part of a double or triple pane unit, these solutions can offer increasing STC. STC is impacted by a variety of factors, including glass thickness, interlayer thickness and type, and airspace, which can be customized to meet each project's requirements.



#### Light & Solar Control

Laminated solutions provide excellent light and solar control, improving U-factor and Solar Heat Gain Coefficients as well as minimizing UV transmittance and glare. Polyvinyl butyral (PVB) interlayers transmit less than 1% of UV radiation. When used with Low-E coatings and incorporated into insulating glass units, laminated glass can be produced to meet high-performance requirements.





# Decorative

#### i-Glass

i-Glass® combines the long-term durability of ceramic inks with the versatility of printing visually impressive multi-color, high-resolution digital images directly onto the glass surface, creating endless possibilities in the design of interior elements and building facades.



#### Silk-Screened

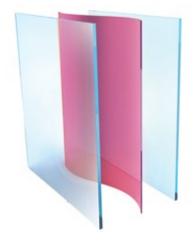
Silk-screened glass can have transparent, translucent, or opaque patterns and a variety of standard and custom colors. These can be supplied monolithically or as part of a laminate or IG unit for both aesthetics and solar control. Silk-screened applications include glass doors and partitions, handrails, glass ceilings, elevator walls, curtain walls, canopies and skylights.



Decorative solutions are available as monolithic and Insulating Glass (IG) units to support design and performance requirements. Achieved through digital printing, laser etching, silkscreen printing or incorporating a variety of interlayers, these solutions provide a canvas for creative ideas with performance benefits.

### **Colored Interlayers**

Colored, or tinted, interlayers provide a wide variety of aesthetics. They can be solid, patterned or mixed and matched for a variety of applications. White interlayers are also commonly used when transparency is not wanted.





# Decorative

#### Spandrel

Spandrel heat-treated glass is tempered or heat-strengthened with a colored opaque coating applied to one surface. Spandrel is produced with ceramic frit or silicone paint. It can supplied as monolithic glass, laminated or as part of an IG unit. Typically used for a building's non-vision areas to mask floor lines, ducts, access ways and construction materials, spandrel is an excellent solution for a seamless glass façade.





## **Bird-Friendly Glass**

Applied via acid-etch or ceramic frit, or using UV coated panes, bird-friendly glass is produced in a variety of patterns to ensure birds can visually see a building, avoiding collisions.

This solution is available in a range of sizes and can be incorporated into laminated glass and IG units.





#### **ARCHITECTURAL GLASS**

# Insulating Glass Unit Options



## **Double & Triple Pane**

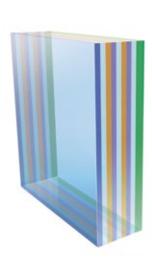
IG units can have two, or three lites of glass, usually dependent on a project's thermal performance requirements. The glass lites can be annealed, heat-strengthened, tempered or laminated and can be different thicknesses depending on applications.



### **Vacuum Insulating Glass**

Vacuum Insulating Glass, or VIG, leverages minimal airspace between two lites of glass to maximize thermal efficiency. The unit can be as thin as 1/4". Its slim profile makes it an ideal solution for replacement projects and historical applications to substitute a monolithic pane of glass. It can also be used in a traditional IG unit.

Insulating Glass Units, or IG units, are designed to support energy efficiency and sound control goals, providing thermal and acoustical performance for projects. Leveraging a variety of make-ups, air space options, low emissivity coatings and decorative interlayers allows this solution nearly limitless flexibility to meet a wide range of project aesthetic and performance requirements.



# Integration with Low-emissivity (Low-E) Coatings & Substrates

Low-emissivity, or Low-E coatings, improve thermal performance by reflecting light. In certain applications, these can also contribute to improved Solar Heat Gain Coefficients. Low-E coatings can be used in monolithic, laminated or IG units for maximize thermal performance.



#### **Decorative**

A variety of options exist to add aesthetic appeal, and often improved thermal performance, to IG units.

These include patterned glass, colored interlayers, silk-screen or i-Glass printed glass, and spandrel coatings.

These all come in a variety of thicknesses and sizes to meet any project's requirements.

# Structural Glass Systems

#### Stackwall®

Stackwall® is an exclusive structural wall system comprised of facade glass panels joined to vertical glass mullions with metal patch or "spider" fittings. Vertical glass mullions are designed to resist site specific design loads. This solution can be used in multiple applications for monumental lobby walls, high-end entrances, offices and retail applications.



#### Finwall®

Finwall® is an exclusive structural wall system comprised of facade glass panels and vertical glass mullions designed to resist site specific design loads. It can fit openings that vary in height, ranging from 11" to 16", depending on the type of glass selected. The system provides the aesthetic of an exterior flush-glazed wall using interior glass mullions or fins instead of metal mullions. The glass fins provide support to the facade glass plates. Finwall® is free from visual obstructions, limiting the need for metal framing to the perimeter, creating a seemingly floating glass facade.



Turnkey structural glass systems provide a striking focal point for a variety of applications. Available for monolithic, laminated and IG panels, these systems are supported by our design team to ensure successful application and integration with the building envelope.

#### **Point-Supported**

Point-supported canopies and facades are comprised of stainless-steel spider fittings and tempered glass designed to resist specific design loads. Glass attachment fittings are designed to flex when the glass is under loading to reduce stresses in the glass at the point fitting. Available in a variety of glass types as both monolithic and IG systems. These are ideal for canopies, entrances and lobbies as well as retail displays.



### Specialty Systems

Specialty Systems are uniquely designed and engineered in collaboration with our team of experts for a variety of custom applications. Structural requirements are identified in the design process to ensure performance. Specialty Systems can integrate spider fittings or patch plate fittings. They attach to the building structure, steel rods, beams or cables.



Oldcastle BuildingEnvelope 5005 LBJ Freeway Suite 1050

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