



# Sidelighting Systems

Translucent Wall Systems + Cladding Solutions





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# Quality Comes to Light

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## Who We Are

Kingspan Light + Air (KLA), headquartered just north of Chicago, is an award-winning innovator of daylighting solutions for high-performance building envelopes.

We are a pioneer and leader of the daylighting industry, and continually innovate so clients never have to choose between efficiency, style, and safety. And our focus on sustainability is instilled at every level of the company and at every step in the manufacturing process.

Our global team of highly-skilled and experienced professionals and extensive manufacturing capability ensure we are the partner of choice for the ever-changing world of modern construction. Together, we leverage our knowledge and expertise to serve as the leading daylighting consultants for the architectural community and building industry.

Never Compromise. Always Innovate.

## The KLA Advantage

You shouldn't have to compromise your design. We want to enable architects to achieve the highest levels of building performance without sacrificing aesthetics.

This is why we team up with architects, contractors, and building owners to develop the most versatile daylighting systems on the market. We will work with you from design concept through engineering and installation - and beyond - to ensure the highest levels of performance and quality.

Our expansive lineup of daylighting and natural ventilation solutions will be able to provide you with a system that fits your project's specific needs.



# Start Planning Your Next Project

Kingspan Light + Air is the global leader in daylighting, ventilation, and smoke management solutions for a sustainable built environment. Our translucent walls, skylights, tubular daylighting devices, canopies, walkways, and smoke vents are engineered to optimize the role that natural light and air play in the design of advanced energy-efficient buildings and the health and well-being of their occupants.



## Quality Solutions

Now that Kingspan Light & Air, Solatube International and Major Industries, Inc. have joined forces, we offer a full range of standard and custom daylighting solutions built to perform across a wide array of conditions and set a higher standard for the quality and versatility of daylighting technology and integrated design solutions.



## Connecting with our Customers

Our ultimate goal is to connect with our customers and serve them on a more personal level. From a dedicated design team to new features on our website that allow for more direct requests for assistance, we want to partner with you from initial design to installation and beyond.



## Our Mission

Our newly-formed Architectural Solutions Team serves our clients as their comprehensive project partner. Our team collaborates with you to create exceptional outcomes through the seamless integration of architectural daylighting design assistance, product education and inspiration, and more.



## Services Available

- Design Assistance
- Testing and code information
- Technical details
- System performance analysis
- Daylight modeling
- Preliminary structural review

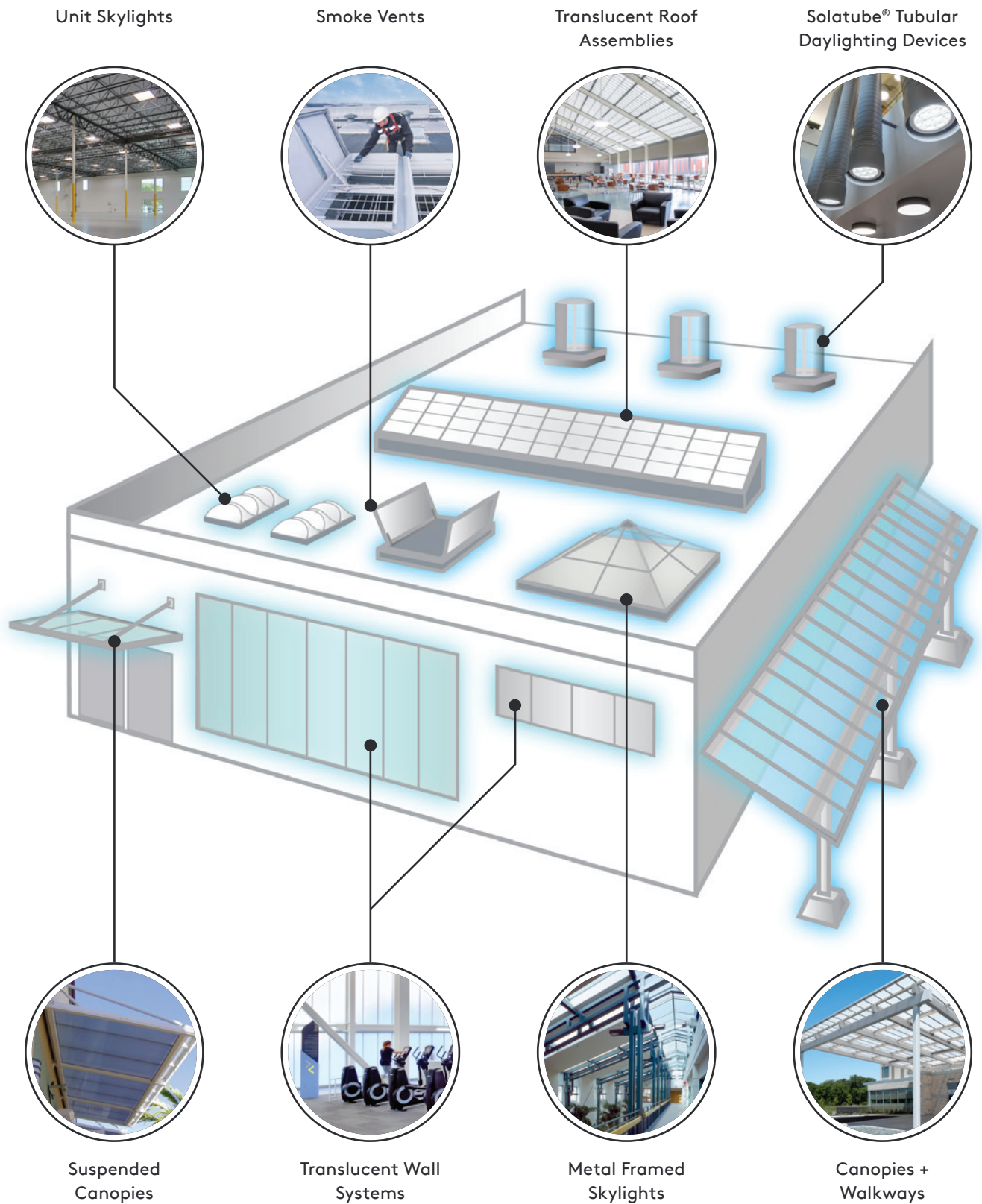


## Project Assistance

We are here to help! Your Project Designer is a daylighting industry expert who:

- Assists with product selection and system design
- Helps identify exact daylighting needs for your project
- Models alternate design solutions when needed
- Provides daylighting inspiration packages with images
- Designs solutions with your exact budget and performance goals in mind
- Provides budgetary pricing during conceptual design and design development

# Kingspan Light + Air Family of Products





# Translucent Wall Assemblies

## UniQuad® Polycarbonate Multiwall Systems

UniQuad® translucent wall systems feature a unitized panel design of aluminum support members and polycarbonate multiwall glazing that provides light control and high thermal performance along with the versatility to meet the functional and creative needs of any building design. Systems may be customized for a wide range of performance and aesthetic needs, including sound control, custom colors and graphics, specialty systems for hurricane and blast protection, integration with insulated metal panels, insulation options and more. UniQuad® Window systems, designed for smaller openings, are also available.

Best of all, UniQuad® is easy to install and maintain, and features excellent end-of-life sustainability, as most materials can be recycled (an Environmental Product Declaration is also available).



### Innovative Design

The hallmark of the UniQuad® system is the innovative two-piece panel connection, which enables the system to be unitized. The panels themselves are factory glazed and assembled for superior quality control. The unitized construction of the system results in quick, cost-effective installation.



# Translucent Wall Assemblies

## UniGrid™ Fiberglass Reinforced Polymer Systems

UniGrid™ (formerly Guardian 275®) translucent panel wall systems are a versatile daylighting tool. From the numerous thermal and specialty performance options to extensive warranties, UniGrid™ systems offer long-term reliability and a wide range of design versatility.

UniGrid™ translucent wall systems feature a lightweight sandwich panel design and innovative Ultimate Series™ fiberglass technology for long-term durability. They also come standard with concealed fasteners, an innovative “snap and capture” detail that provides rapid field installation and secure holding power, and excellent protection against water and air infiltration via EPDM gasketing and long-lasting high-performance sealants. UniGrid™ is available with a variety of insulation options, as well as a 4” panel option for enhanced thermal performance.

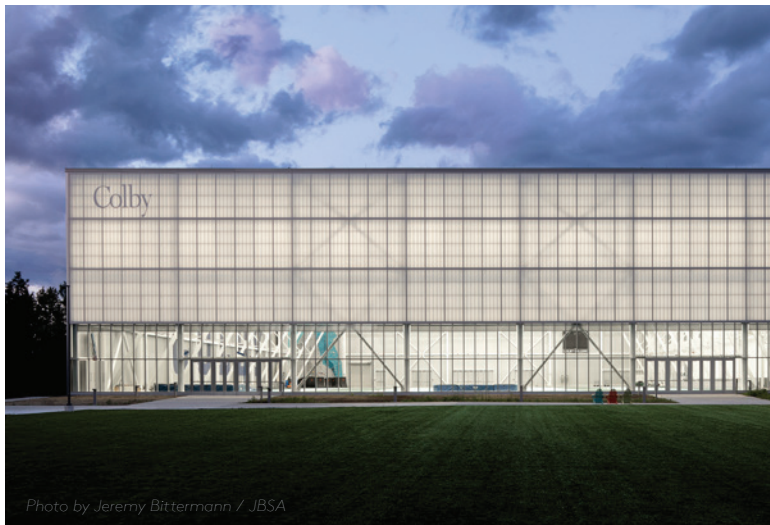
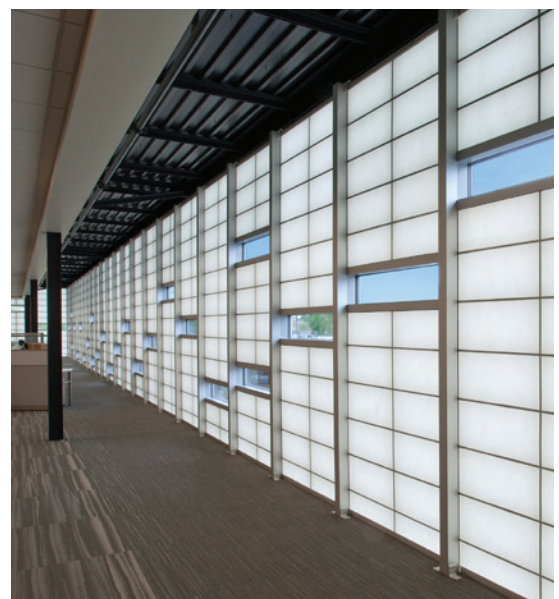


Photo by Jeremy Bittermann / JBSA



### Engineered to Perform

UniGrid™ wall systems are designed with snap-to-lock caps and concealed fasteners for a clean look. Thermal breaks are available for both the panels and framing, and two panel widths are available - 2.75” and 4”.





# Cladding + Rainscreen

## PentaClad™ Single Panel Solutions

Our PentaClad™ cladding systems offer an effective solution for enclosing non-conditioned spaces. The single panel design uses Nano-Cell® technology to provide durability and impact resistance plus balanced distribution of natural light. The system helps modernize building exteriors or hide mechanical structures with a standing seam or flush appearance that allows for graphics and backlighting. It's a great tool for creating eye-catching light boxes that highlight an entryway or public space.

- Modernize the exterior of your building
- Can be designed to meet hurricane standards
- Create an area for signage or backlighting for a unique building appearance



### Aesthetic Impact

Whether it's a large light box that announces an entryway or an expanse of panels concealing building mechanicals, our PentaClad™ cladding options can turn an eyesore into something beautiful.





# Retrofit Solutions

## Wall System Retrofit + Replacement Solutions

Whether you're simply updating an old and outdated daylighting system or upgrading after storm damage or other failure, we can help. We offer a wide range of skylight, wall system and canopy options designed to make retrofits easy. From retrofit-ready panels to Direct-2-Fab systems that can be on-site quickly, we'll work with you to find the right solution for your replacement needs.

Our Removable Skin Technology (RST) is also a cost and time saving option for UniQuad systems, allowing the interior of exterior glazing to be removed independently and removing the need to shut down occupied spaces to complete the replacement process.

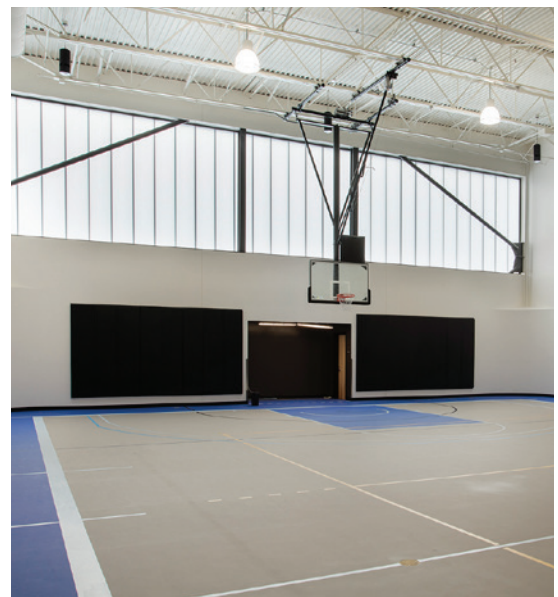
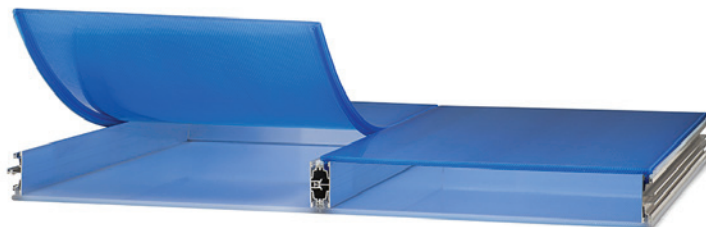
If you're replacing an outdated fiberglass panel system, consider UniGrid panels (formerly Guardian 275® from Major Industries), as they can often be retrofitted into existing translucent panel framing (contact us with specific project details). Panels with built-in 1" adapters also allow for installation into existing glass framing.

Whatever your project demands, we'll work with you to find the right solution for your retrofit and replacement needs.



### Ease of Installation

Kingspan Light + Air's product innovations, like Removable System Technology (RST), can save time on site, and limit downtime for businesses during the retrofitting process.



# Specialty Configurations + Options

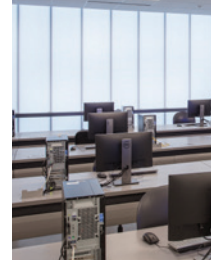
## Designed to Perform in a Variety of Environments



### Blast Protection + Explosion Release

Kingspan Light + Air offers a wide range of blast rated solutions - from polycarbonate wall and skylight systems to fiberglass panel wall and skylights systems. These systems can also be configured for explosion release.

Contact us for additional details on blast protection systems and requirements for your project.



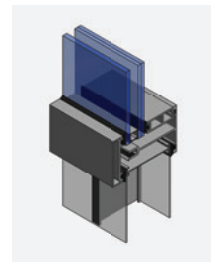
### Hurricane + Heavy Weather

We translucent wall systems that meet Texas Department of Insurance and Florida Product Approval standards, and will work with you to find the right system for your project needs. Contact us for more details.



### Sound Transmission Class (STC)

Custom translucent wall and skylights systems can be configured for improved control of sound. Whether you're looking to reduce highway noise or occupant noise between workspaces, we'll work with you to find the right solution for your project.



### Mixed Glazed + Unitized Systems

Combining translucent and glass glazing is a great way to gain sun control while still allowing views to the outside. UniGrid™ (formerly Guardian 275®) systems can also be configured as a unitized system, combining translucent panels with fixed glass, operable windows and/or louvers that arrives on-site pre-assembled and ready-to-install.



### Backlighting

Translucent daylighting systems can create a beacon-like look during evening hours with normal interior lights - but add some properly placed LED backlighting and the space can transform. Not sure where to start? We can assist you through the design process and connect you with the right lighting designers to make your project glow.



### Applied Graphics

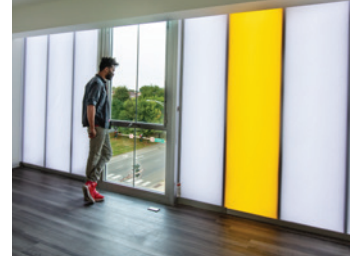
Whether it's a company logo, a school mascot or a graphic that helps define a building's use, we'll work with you to define your needs and determine the best graphic solution. Simple or complex, graphics can be a great way to evoke a building's past, reinforce a brand, or simply add some fun and aesthetic impact.





### Custom Grid Patterns

UniGrid™ (formerly Guardian 275®) translucent panel walls can be designed with custom grid patterns that stray away from the standard rectangular grid. Whether you're emulating stained glass or want to mimic the unique architectural lines in other parts of your space, we can help create a daylighting system that fits your needs.



### Glazing + Insulation Color

Polycarbonate glazing is available in a variety of standard and custom colors, and can be a vibrant way to include school and logo colors in a facility. FRP panel systems come in more muted colors, but insulation can be colored to give the panels a stained glass type look. Contact us to find out more about color options and availability.



At Kingspan, we want to play our part. We believe advanced materials, building systems and digital technologies hold the key to addressing these issues. Working in partnership with the industry, and through our new IKON innovation centre in Ireland and our Planet Passionate global sustainability program, we are confident that together we can:

1. Move to a clean energy future
2. Manage earth's resources more sustainably
3. Protect our natural environment

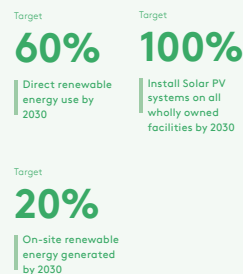
#### What is Planet Passionate?

Planet Passionate is Kingspan's ambitious 10-year global sustainability program which aims to impact three big global issues:

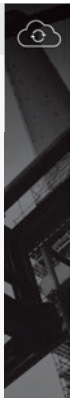
- Climate change
- Circularity
- Protection of our natural world

By setting ourselves challenging targets in the areas of energy, carbon, circularity and water, we aim to make significant advances in the sustainability of both our business operations and our products.

#### ENERGY



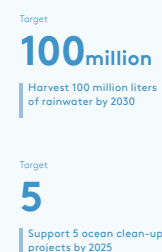
#### CARBON



#### CIRCULARITY



#### WATER



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For the product offering in other markets please  
contact your local sales representative or visit  
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For additional technical information and/or daylighting systems design  
consultation, contact Kingspan Light + Air for your specific needs. Care has  
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