

Never Compromise. Always Innovate.

Quality Comes to Light

Kingspan Light + Air | CPI Daylighting is an award-winning innovator of translucent daylighting solutions for high-performance building envelopes headquartered just north of Chicago.

Since the 1980s, we have been a pioneer and leader of the daylighting industry. We continually innovate so clients never have to choose between efficiency, style, and safety, and our pledge to 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 is a community of doers, ensuring 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.

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▲ Project: AVCRAD Facility
ID: 29452
Location: Springfield, MO
Architect: Jacobs



▲ Project: Hologic, Inc.
ID: 34563
Location: San Diego, CA
Architect: Smith Group
Consulting



▲ Project: UNF Student Center
ID: 24863
Location: Jacksonville, FL
Architect: Rink Design Partnership



▲ Project: Maryland Heights Community Center
ID: 39535
Location: Maryland Heights, MO
Architect: CannonDesign

The KLA Difference

We believe that good design can have a profoundly positive effect on the built environment, and improve the way that we work, learn, play, and live.

Our mission is to set new, higher standards for the quality and versatility of daylighting technology, as we strive to advance daylighting design.

Collaboration is Key

As expert problem-solvers, we team up with architects and designers to develop solutions that will enhance and optimize the role that natural light plays in the design of buildings. We are here to assist you through each step of the process –from preliminary design to the final installation of the system.

Don't Compromise

As a designer, you shouldn't have to compromise your design due to product limitations or the rigidity of some manufacturers. Our goal is to enable architects to achieve the highest levels of building performance without sacrificing the aesthetic quality of their design. This is why we have worked tirelessly to develop the most versatile daylighting system on the market.

Challenge Us

We offer architects the unique opportunity to redefine daylighting. Be creative, and explore new ways to utilize our technology. Push the envelope with your designs, and inspire others to do the same.

We were founded on innovation, but it is your imagination that continues to drive our evolution. So, what's your next bright idea?



Our Innovative Technology

▲ Project: Grandview Heights Aquatic Centre
ID: 36690
Location: Surrey, B.C.
Architect: HCMA Architecture + Design

Two-Panel System

Our system is designed with two independent glazing panels that are mechanically connected to an internal support structure. A key feature of this design is the internal cavity between the two glazing panels. The cavity can be filled with various inserts to customize the performance of the system based on the building's requirements. Rather than sourcing a different system for each type of daylighting application, utilize a single, trusted system that is designed to adapt to meet your building performance needs.

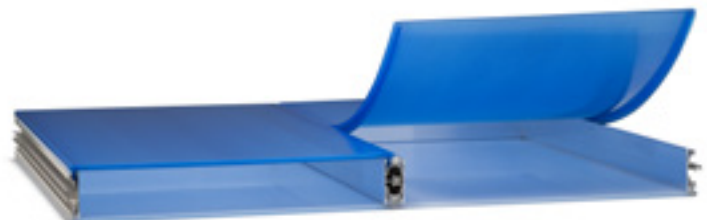
Our translucent daylighting system delivers outstanding performance, offering the best ratio of light transmission to insulation value in the industry, and is the ultimate in design freedom and flexibility.



Removable Skin Technology (RST)

The system is designed so that the interior and exterior glazing panels are independent of one another. Once installed, the interior panels remain intact, and each of the exterior panels can be disengaged and removed without compromising the integrity of the building envelope.

Removable skin technology ensures that if there is a future need for updating the exterior, those panels can be changed without interrupting ongoing building operations. The flexibility to replace individual panels, rather than the entire system, adds another level of dimensionality to a system that is already extremely versatile.



Multi-Color Panel Option

A different color can be selected for each of the two independent glazing panels that make up the system. As a designer, you may want to make a bold statement by using colorful panels on the exterior and utilize a neutral panel color on the interior for a clean, finished look.

While glazing color combinations offer an opportunity for creativity, they also serve a practical purpose when tailoring the performance of the system. Each glazing color has an inherent solar performance. By varying the combination of the glazing colors, not only can you create unique visual elements, but you can also customize the solar performance of the system. The optional matte finish on the panels will increase their ability to diffuse light and eliminate glare.



Longer Clear Spans

Due to the design of the internal support structure, the panel system can achieve longer spans and still comply with deflection and code requirements. The ability to span floor-to-slab minimizes the necessary support structures – reducing the cost of material and labor. It also improves the aesthetic quality of the system.

Nano-Cell® Glazing



Our patented Pentaglas® translucent glazing is precision engineered with Nano-Cell® technology. This specialized panel extrusion results in the cells measuring smaller than 0.18 inches, and provides the panel with increased durability and prolonged resistance to impact. The unique cell structure also significantly improves the quality and even distribution of glare-free natural light.

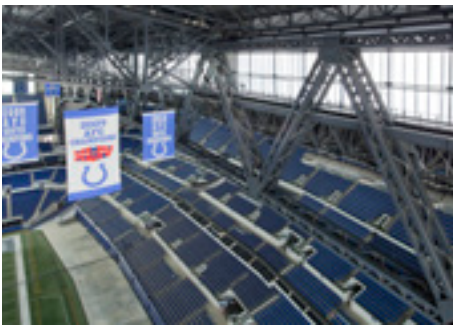


One trusted system
Infinite possibilities

What's your next bright idea?



▲ Project: Akron Children's Hospital Parking Garage
ID: 35531
Location: Akron, OH
Architect: GPD Group



Dynamic Shading System



Military Facility per DoD Standards

Specialized Performance Options

We understand that due to budget, occupancy, and building type, not all building envelopes are made equal. That is why we designed a system with an internal cavity that can be modified with additional inserts to meet the performance requirements of any building. Whether you need a system that can dynamically manage light levels in a classroom, meet forced entry standards for a military facility, or anything in between, we can help you achieve your performance goals.

- Dynamic Shading System
- Additional Insulation
- LED Lighting
- Sound Reduction (STC)
- Forced Entry Resistance
- Perforated Metal Insert





▲ Project: Coquille Community Center
ID:31260
Location: Covington, LA
Architect: Holly & Smith Architects

LED Lighting

With the integration of LED lighting, the daylighting system is transformed into an elegant night-lighting feature. With the flip of a switch, your building becomes a beacon of creativity.



Graphics

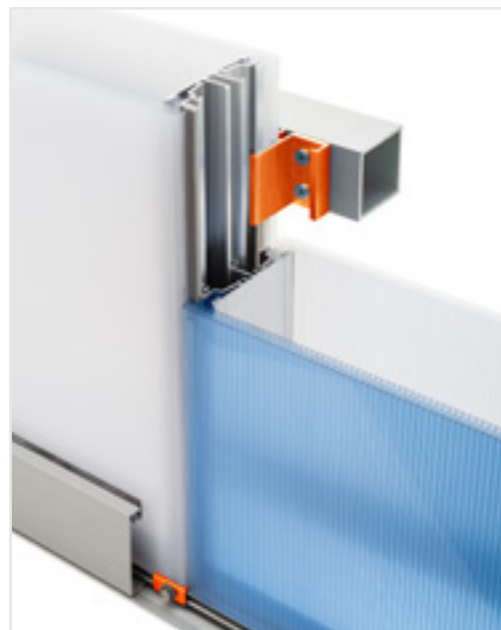
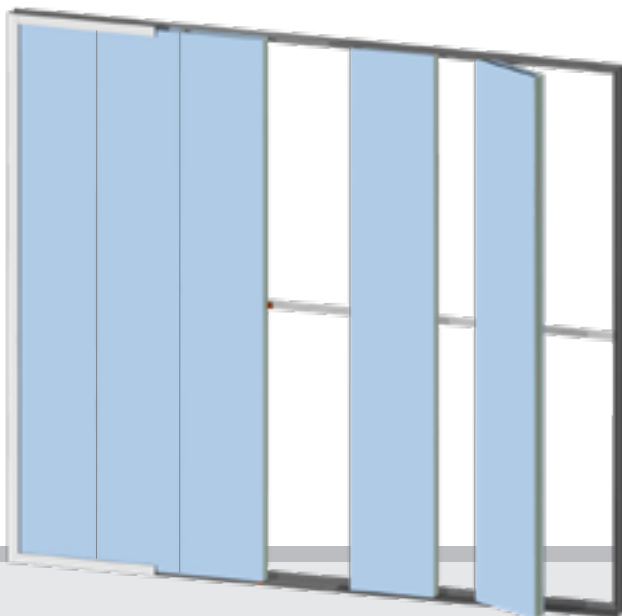
Graphics can be used to create an iconic look or to reinforce a building owner's brand through signage, logos, etc. Add textures, geometric patterns, or other unique visual elements to either the system's interior or exterior, and produce different effects that are sure to make your building standout.



UniQuad® | Translucent Walls

Design + Engineer + Manufacture

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.



Our Innovative Technology



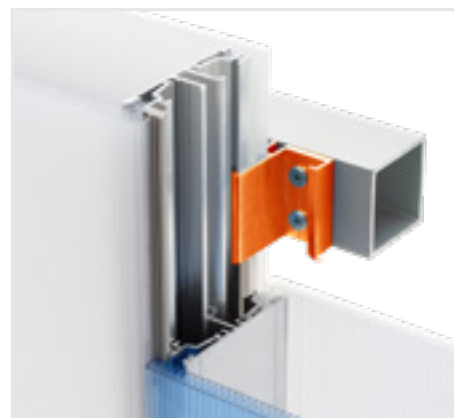
Frame System

The two-piece frame system consists of a sill and sub-sill. It is designed so that the necessary fasteners don't penetrate the sill frame. A thermally broken frame is also available.



UniClip™

The concealed UniClip™ is designed as a structural clip, capable of withstanding heavy loads. The specialized design enables the panels to be installed quickly and remain in place without needing frame caps.



Panel Clip

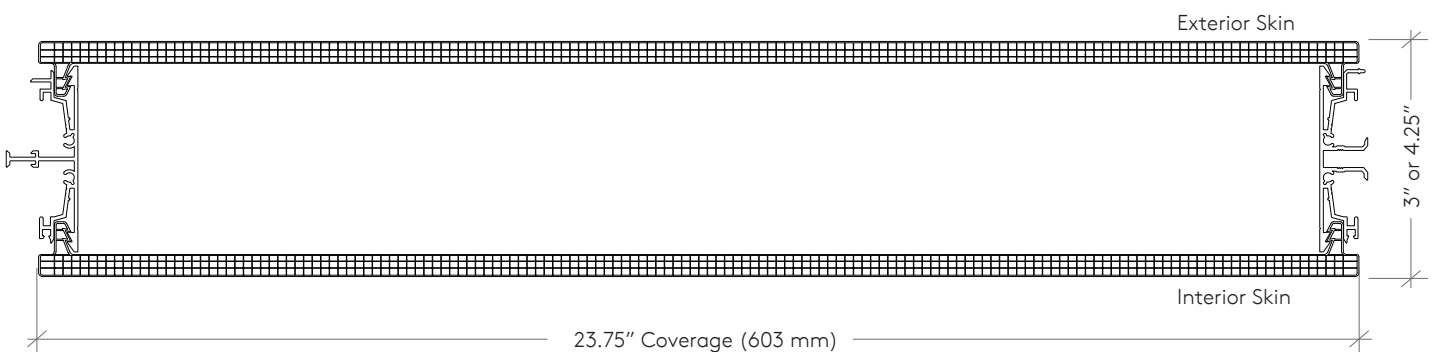
The panel clip fastens directly to the internal UniQuad® structure, which prevents the glazing from breaking under extreme clip loads, as is common with other systems. The metal-to-metal connection enables the glazing to freely expand and contract. It also increases the system's ability to withstand high loads and span floor-to-slab.



- ▲ 1 Eagle Academy ID: 35107
 2 Grandview Heights Aquatic Centre ID: 36690
 3 Virtua Health & Wellness Center ID: 23637

Product Specifications

Thickness:	4.25 in (108 mm) & 3 in (76 mm)
Width:	2 ft nominal (23.75 in) (603 mm)
Length:	Up to 44 ft long
Panel Weight:	1.5-2 lbs/ft ²
Technology:	Removable Skin Technology (RST) - Allows for the removal of the exterior panel while the interior panel remains in place
Panel Joint:	Structural member, mechanically interlocking, sealed joint
Exterior Skin:	10 mm Pentaglas® translucent panel with Nano-Cell® extrusion
Interior Skin:	10 mm Pentaglas® translucent panel with Nano-Cell® extrusion
Color Options:	Standard - Clear matte, white matte, ice white matte, blue matte, green matte Consult KLA for other available color options, including bronze matte, gray matte, white pearl low-E, and other exotic colors Note: all colors are available with a non-matte finish upon request
Bi-Color System:	Option to select one color for the exterior glazing panel, and a different color for the interior glazing panel



UniQuad® | Translucent Walls

Design + Engineer + Manufacture

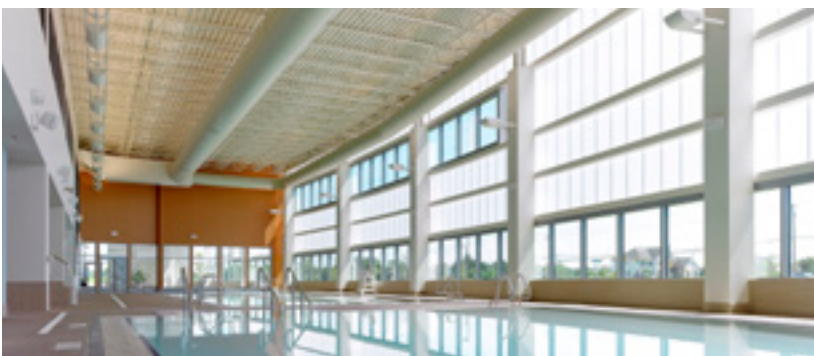
The extreme versatility and unitized assembly of the UniQuad® system makes it the perfect system for walls and building facades. This system is also effective for clerestories and smaller scale punched openings.

UniQuad's sleek, linear aesthetic and modular construction enable the system to be easily integrated with other building envelope components.

With a wide range of colors, and the potential for incorporating graphics and lighting, UniQuad offers designers the opportunity to rethink daylighting in a creative and inspiring way.



- ▲ 1 AVCRAD Facility ID: 29452
- 2 Eagle Academy ID: 35107
- 3 Maryland Heights Community Center ID: 39535



Large Scale Facades

Individual panels can be manufactured up to 44 ft. tall and are able to span across floors of multi-level buildings. Panels can clear span floor-to-slab, depending on the height and loading conditions.

- ◀ Project: Richmond Olympic Oval
ID: 20460
Location: Richmond, BC
Architect: Cannon Design

Daylighting Zones

Manage the level of transparency to create focal points and control views. Integrate a translucent system to maximize light while minimizing heat gain and glare.

- ◀ Project: Virtua Health & Wellness Center
ID: 23637
Location: Washington Township, NJ
Architect: HGA

A Better, Brighter Building Envelope



▲ Project: Austin ISD Performing Arts Center
ID: 35165
Location: Austin, TX
Architect: Pfluger Architects & Miró Rivera Architects



Pentaglas® | Cladding

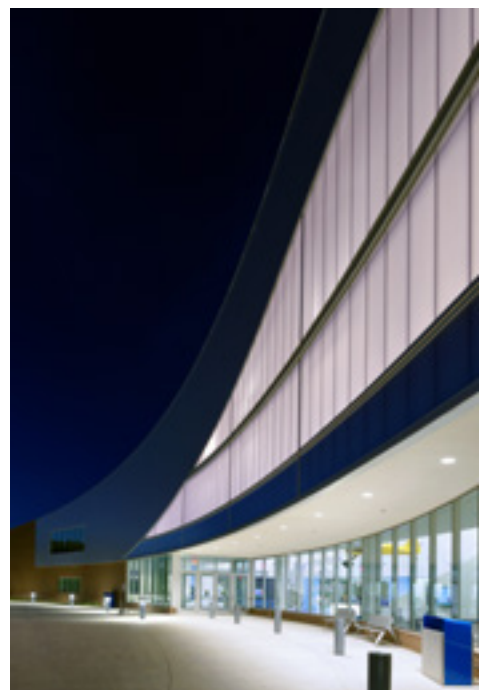
Our Pentaglas® system can be used for cladding structures that enclose non-conditioned spaces.

Our cladding system can help you achieve a variety of goals:

- Modernize the exterior of a building
- Meet hurricane standards
- Create an area for signage
- Backlighting



◀ 1 Spoke Apt Complex ID: 42858
2 Mission Creek Kayak Storage ID: 24532
3 Sarasota Police Station ID: 25772
4 3rd & Pine Parking Garage ID: 22125



To learn more, visit:

www.cpidaylighting.com
www.kingspanlightandair.us

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