

POOL & SPA

Building the Perfect Environment for Leisurely Living



About Us



As an industry leader for more than 20 years, Solar Innovations® has a long history that is rooted in the heart of manufacturing with a deep passion for the American dream. As a single source provider of custom glass structures, skylights, windows, doors, and more, Solar Innovations® strives to endlessly innovate and design custom products throughout the world. Our products continue to develop and grow as a direct result of our dedication to the industry and the creativity of our customers.

By investing in our team and customers, we are proud to turn dreams into reality. All of our American made products are designed and manufactured at our campus in Pine Grove, PA, allowing for more flexibility to provide superior products and services. In addition, most of our engineering, product testing, and product

designing take place within our facility. By producing as many components as possible in-house, we have greater control over quality, lead times, and cost, which ultimately achieves better results for our customers.

Although Solar Innovations® comes from small and humble beginnings, we now reside in a 400,000-square-foot corporate and manufacturing space. With a three-building campus located on over 36 acres of land, our company continues to develop and grow by creating innovative designs and engineering new product lines. The Solar Innovations® team strives to forge its path into the future by promoting a strong spirit of unity, with the desire to be better today than yesterday.



INNOVATIVE

Solar Innovations® – it's in the name. By constantly introducing new ideas with creative ways of thinking, our decisions take standard products to the next level. No project is too big or too small for us to handle.



DURABLE

The strength and durability of our products are a promise. The majority of our applications are impact tested in-house, ensuring that every project can withstand the test of time in any environment.



HIGH-PERFORMING

At Solar Innovations®, we are about superior results. Our company currently offers the largest, impact rated folding glass walls on the market and constantly strives to create the highest quality product possible.



EASY TO OPERATE

All of our applications are user-friendly and straightforward. No matter the shape, size, or type of project you may have, our products remain practical and manageable for the ultimate customer experience.

Why Solar Innovations®?

SINGLE SOURCE PROVIDER

We are a single source supplier of aluminum, wood, and vinyl-composite glazing systems which all help to create consistency throughout your project. Solar Innovations® provides all fasteners, silicone, sill flashings, and project specific shop drawings (unless stated otherwise on our proposal).

IN-HOUSE TESTING

With two in-house test labs, the quality of our products is second to none and includes some of the highest ratings in class. Solar Innovations® offers a vast line of tested products that meet various certifications, including NFRC, AAMA, Florida Impact, Miami Dade, and TDI. Our products can be specifically designed and engineered to your project location.

ECO-FRIENDLY PRODUCTS

We are proud that our materials are sourced from local suppliers; not only does this help boost our local economy, but it also reduces transportation times and fuel emissions to help lower the impact on the environment. Our products are designed for high thermal performance, making them an energy efficient option for homes and commercial spaces. Even more, our systems include recycled content and are LEED friendly. Possible LEED credits are available in the following categories: Materials & Resources (recycled content), Indoor Environmental Quality (daylight), Energy & Atmosphere (performance), and Regional Priority (within 500 miles of our facility). Depending on the application, other credits may also apply. Solar Innovations® is proud to be a LEED Gold certified manufacturing facility.

COASTAL APPLICATIONS

Our systems have the ability to meet coastal requirements, limiting visible wear and tear. We have advanced aluminum finishes and stainless steel components in our hardware, making our materials durable against the corrosive effects of the elements in coastal regions.

INSTALLATION

Whether a product is purchased directly from our manufacturing facility or through our dealer network, Solar Innovations® can provide installation and service for all of our products within a six-hour radius of Pine Grove, PA. Our expertly trained team is registered to complete installation and service work in an ever increasing number of states (consult our sales department for a current listing).

REPAIR & REPLACEMENT SERVICES

Our team has the technical skill and experience to evaluate your situation and determine the most effective options for the repair, service, or replacement that is needed for your project. All drawings and information are saved for each project, so a site visit will not always be required.



RESIDENCE | LEBANON, PA
Straight Eave Double Pitch Pool Enclosure



RESIDENCE | GUILFORD, CT
Straight Eave Double Pitch Spa Enclosure with G2 Sliding Glass Doors



RESIDENCE | IRVINGTON, VA
Straight Eave Lean-To Pool Enclosure with G2 Folding Glass Walls

Design Considerations



RESIDENCE | ARDEN, NC
Straight Eave Lean-To Pool Enclosure

FOUNDATION

Solar Innovations® recommends that all structures be placed on a pre-built solid foundation with concrete being the ideal foundation material. Even if the enclosure uses a base wall, it is still recommended that a solid footer is in place. If a unit is constructed on an uneven, poorly built foundation or no foundation at all, it will be subject to any unsettled ground shifting which over time may cause system performance issues.

LOCATION

Southern facing glass is ideal for exposure to maximum amounts of sunlight, however, since natural heat is present throughout the entire day, extra cooling provisions may need to be considered. Northern facing glass receives less sunlight during the day, so extra heating may be required. Southeast facing glass will provide plenty of warmth and sunlight throughout the day, with shade in the late afternoon and evening. Southwest facing glass will have little solar exposure in the morning with sunlight throughout the afternoon and evening.

ENVIRONMENTAL CONTROL SYSTEMS

Environmental control systems provide a comfortable environment and are able to control dehumidifiers, heaters, coolers, air circulation, ridge and eave vents, and more. Control systems can be programmed to automatically correct these factors or to send environment alerts to a cell phone for easy control anytime. By controlling the moisture in the environment, the ability for mold and fungus to develop is greatly reduced.

PLANT LIFE

At Solar Innovations®, we are greenhouse specialists as well as pool and spa environment designers. If vegetation is desired in a pool enclosure, we can create a unique environment that combines the comfort of a spa setting and the precise environmental control required for ideal plant growth.

BUILDING MATERIALS

Due to the high humidity of pool environments and the potential for water to come in direct contact with the wall, drywall should not be used in a pool or spa environment. Marble, brick, stone, and moisture resistant products are better selections because they can repel water. Sealed walls create a safer environment since mold and fungus cannot inhabit the material or develop behind them.

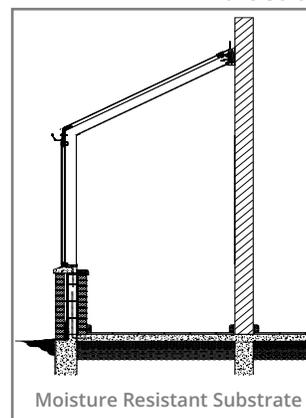
GLAZING

We offer a large variety of performance, dynamic, and decorative glazing. Solar Innovations® recommends laminated glass for all skylights and glass roofs. Upon impact, laminated glass may break, but it will not fall out of the frame possibly injuring those below it. Laminated glass also removes 99 percent of all harmful UV rays.

FURNISHING & DÉCOR

It is important to ensure all poolside furniture selections, storage containers, décor, and any other items in the room are suitable for water exposure

and high humidity environments. Outdoor materials such as cast aluminum, vinyl, or natural stone will not rust or rot and can be safely utilized for the enclosure.

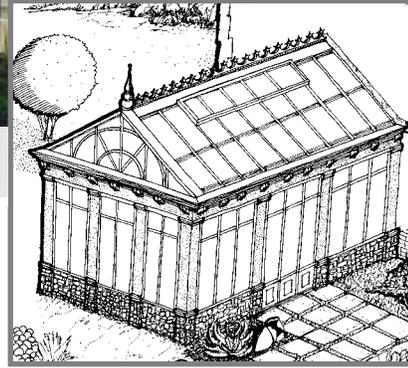


Traditional vs. Contemporary



RESIDENCE | LAKE FOREST, IL

Curved Eave Double Pitch Pool Enclosure with Folding Glass Walls



HISTORIC CHARM

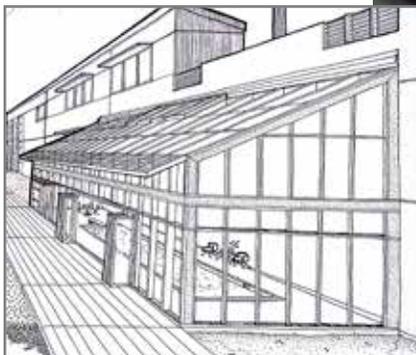
Classically designed English structures are the epitome of style and tradition. Solar Innovations® offers glass structures constructed of aluminum framing that will not require constant maintenance or suffer termite damage. Cast aluminum profiled rafters, wood grids, raised base panels, Palladian arches, finials, and ridge crestings can be added to complete the traditional appeal. English structures feature strong architectural styling and light interior design. The structures showcase layered, muted

fabrics in a variety of pastel colors. Floral patterns and small print fabric are commonly combined with wicker or rattan furniture to add airiness to the conservatory. Pinoleum blinds, which consist of small strips of wood, are often used on the ceiling and windows to help reduce glares and heat gain.

MODERN INNOVATIONS

Modern style structures are often characterized by the simple forms and clean lines used to create their facades. These structures generally create a solid vs. void relationship by combining a variety of materials such as glass, concrete, and aluminum. The interior of a modern conservatory is usually minimalistic, clean, unadorned, and bold in color choice. Simple colors such as white, black, and gray are used throughout a modern space. Accents of bright colors such as red, blue, and yellow are used, but in moderation. Modern glass structures typically feature interior finishes that consist of natural looking materials like concrete, stainless steel, and wood.

Sustainability is often a key factor in the selection of materials for modern styling.



RESIDENCE | CLAREMONT, NH

Straight Eave Lean-To Pool Enclosure

Residential Pool & Spa



RESIDENCE | BETHLEHEM, PA
Hip End Pool Enclosure with Hip End Cupola

Countless Design Options

POOL & SPA ENCLOSURES

People across the world spend countless hours opening, closing, and cleaning their pools and spas. You can devote more time to enjoying your pool or spa by surrounding it with an enclosure by Solar Innovations®.

Creating a custom enclosure allows you to enjoy your pool or spa year-round. The combination of our talented design team and our superior structures makes Solar Innovations® the glass and polycarbonate pool and spa enclosures manufacturer of choice.

The variety of glazing options we offer allows the charm and beauty of nature to enter, while keeping out the snow, wind, rain, leaves, and insects. We use a non-corrosive aluminum framework and stainless steel fasteners that withstand the test of time in the high humidity, chemical filled environment of a pool or spa enclosure.

POOL HOUSES

A pool house—also known as a pool cabana—is an alternative to a pool enclosure. Generally, it is a small structure that sits near the pool and can serve as a multi-purpose space for users. Almost any of Solar Innovations® products can be incorporated into a pool house.

One of our glazed structures can be used as a free standing pool house, or any operable door or window system can be added to a conventionally constructed pool house to enhance function and aesthetics.

ENTERTAINING

A pool house can create a unique entertaining space. The implementation of a pool house allows you to keep the party out of the house and contained to the area surrounding the pool while still providing a conventional space. Instead of people tracking water and debris into your house after swimming, they can utilize the pool house for drinks, food, a changing room, or a restroom.

GUEST LIVING SPACE

Including a bedroom and bathroom to a pool house is always an added bonus – not only will this increase your home's value, it will also provide you with a private area for visiting guests, away from the main living area.

TROPICAL OASIS

Even in blizzard conditions, our enclosures can provide comfortable protection from the elements. Thermal break technology in our aluminum profiles create a stable temperature, maintaining a tropical indoor atmosphere in any climate or weather condition.



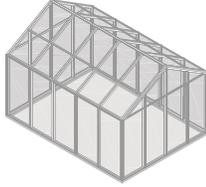
RESIDENCE | WINSTON-SALEM, NC
Straight Eave Double Pitch Conservatory Pool House

Any Shape or Size

Typically the standard pool or spa enclosure is a glass structure. Solar Innovations® offers a large variety of structure design options. Our pool enclosures can be designed to fit all of your aesthetic or functional needs.

STRAIGHT EAVE DOUBLE PITCH

The standard shape for standalone glass structures, the straight eave double pitch can also be connected to other structures by one or both of its gable ends. This configuration provides a uniform space that is tallest along the center axis.



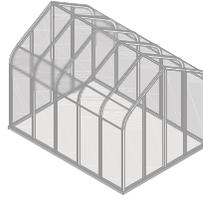
STRAIGHT EAVE LEAN-TO

A straight eave lean-to is the most common configuration for a structure that is attached to an existing building. If you only have a small amount of space, this configuration is a great option and is equally impressive when used in long spans along a building.



CURVED EAVE DOUBLE PITCH

The eaves of a structure can be curved to offer a more traditional appearance. Like its straight eave counterpart, a curved eave double pitch allows for maximum interior space. Curves can begin high on the rafters to allow for tall interior elements or low on the rafters to provide a classic appearance.



CURVED EAVE LEAN-TO

Curved eave lean-to structures combine the space-saving and energy efficient benefits of a lean-to configuration with the unique, traditional look of curved eave structures.



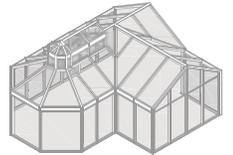
OGEE CURVE

Ogee configurations, sometimes referred to as “s-curve,” are a unique configuration that few manufacturers have the ability to properly execute. The inverted curved eaves come to a peak at the roof. Solar Innovations® bending capabilities allow us to produce Ogee curves in-house.



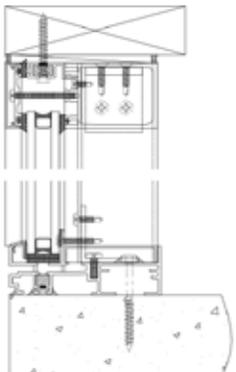
CUSTOM CONFIGURATIONS

Have a unique project in mind? Our in-house design team can help you create a custom solution. Custom structures can include multiple turns, additional interior walls, several roof pitches, dormers, roof lanterns, and unique accessories at any size or configuration.

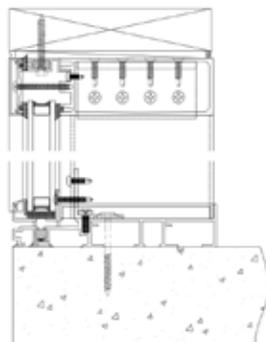


RESIDENCE | ROCHESTER, NY
Straight Eave Double Pitch Pool Enclosure

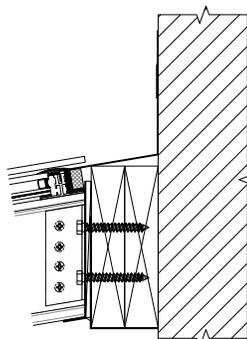
Details



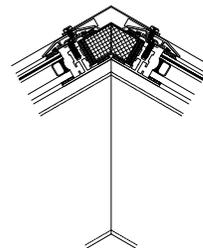
Regular Glazing Bar



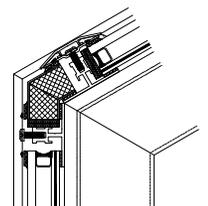
Heavy Glazing Bar



Lean-To Ridge Detail



Double Pitch Ridge Detail



Eave Detail

Operable Walls

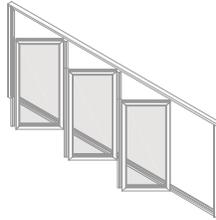


Open Up the Possibilities

Operable walls are an attractive and functional addition to a pool house or spa enclosure. Our wide selection of folding, stacking, and sliding doors allow for the walls to be opened for occupants to bask in the outdoor climate when weather is pleasant. With operable walls, indoor pools can be opened to the outdoors or pool houses can seamlessly become part of the outdoor poolside entertaining area.

FOLDING GLASS WALLS

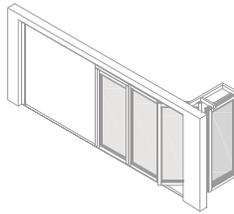
Also known as bi-fold doors or accordion-style doors, folding glass walls can accommodate an unlimited number of panels and configurations. These systems offer a flexible and customizable opening that can be incorporated into any residential or commercial project including covered patios, living rooms, decks, enclosed porches, and pool houses. Swing doors can be integrated into the folding glass walls, allowing you to easily enter and exit a room without opening all of the panels.



RESIDENCE | ARNONK, NY
G2 Folding Glass Walls

SLIDE & STACK GLASS WALLS

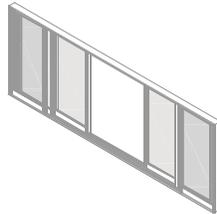
Slide and stack glass wall systems feature individual panels that slide along a top hung track and stack to a remote location or into a pocketed space within a home. This system is designed to accommodate a large number of panels that can open to provide unobstructed views.



RESIDENCE | GREAT FALLS, VA
G2 Multi-Track Sliding Glass Doors

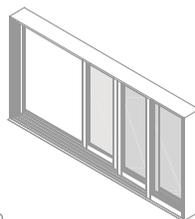
SLIDING GLASS DOORS

Sliding glass door systems expand the view of any living space and can be used as external entryways or transitions between two interior spaces. Motorization options, pocketing possibilities, countless custom configurations, and expansive panel sizes make our sliding glass doors a flexible design element that complements any space. Where engineering allows, a pocket system can be added so the doors are completely hidden from view while open, creating an unobstructed view.

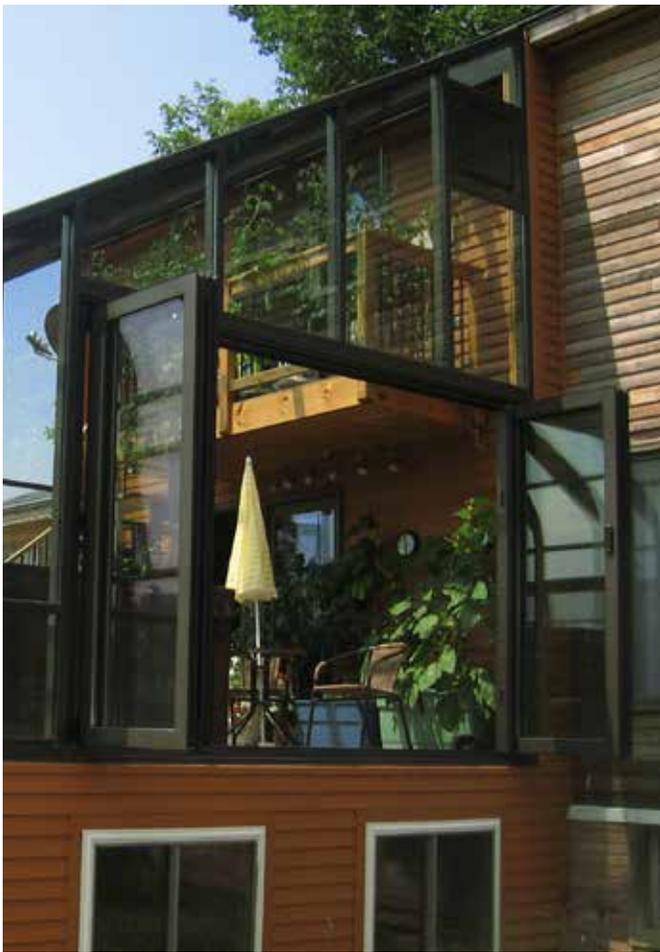


LIFT SLIDE DOORS

Solar Innovations® Lift Slide Door Systems are a high-performance alternative to traditional sliding glass doors. Controlled with a simple turn of the wrist, the handle lifts the panels off the track to move with ease. This door can be opened with one hand and closed with even less resistance. Once the panels are in place, turning the handle reseals the door to provide security and superior air, water, and thermal performance.



RESIDENCE | KATY, TX
G2 Folding Glass Walls



RESIDENCE | SOUTH CHINA, ME

Curved Eave Lean-To Spa Enclosure with G2 Folding Glass Walls

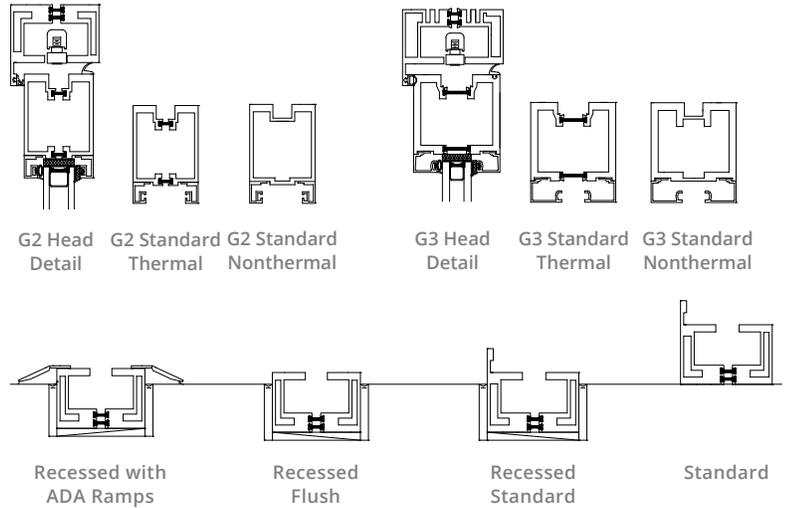


RESIDENCE | SOUTH HAMPTON, NY

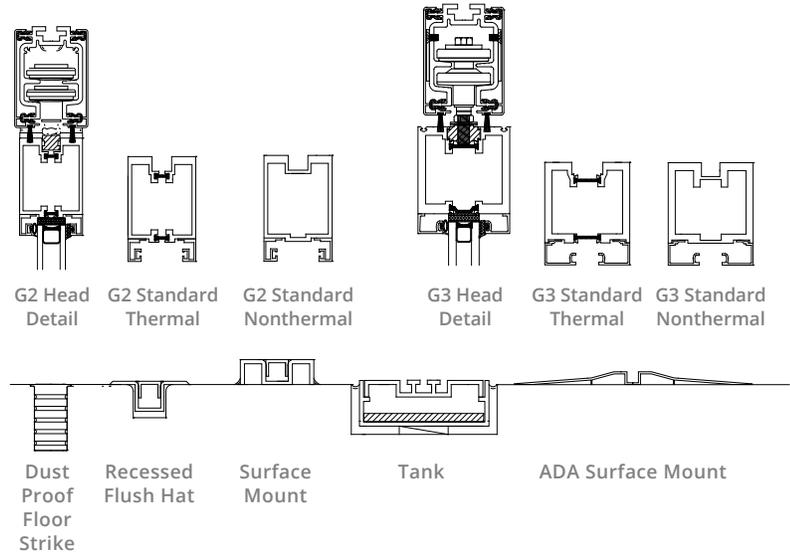
G3 Multi-Track Sliding Glass Doors

Operable Wall Details

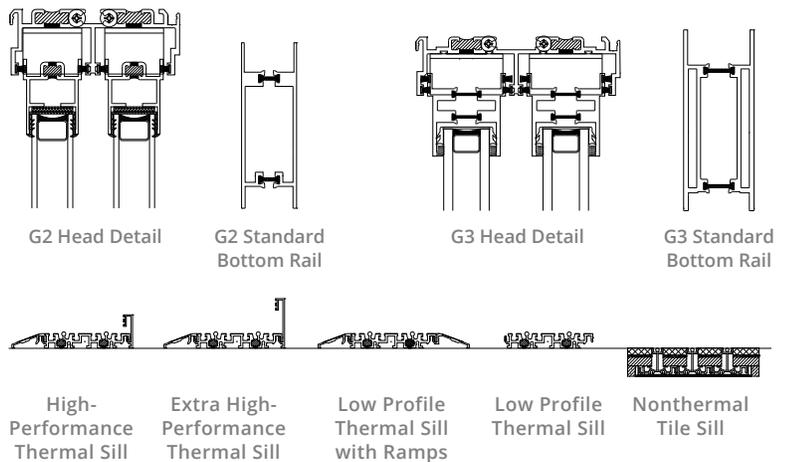
FOLDING GLASS WALLS



SLIDE & STACK GLASS WALLS



SLIDING GLASS DOORS



To download more details and dimensions, visit solarinnovations.com/information/downloads.

Operable Wall Systems Comparison

MATERIAL	G2 FOLDING GLASS WALL	G3 FOLDING GLASS WALL	G2 SLIDE & STACK GLASS WALL	G2 SLIDING GLASS DOOR	G3 SLIDING GLASS DOOR
MAXIMUM PANEL SIZE*	3' x 10'	3' x 15'	3' x 10'	5' x 10'	5' x 15'
NFRC APPROVED	YES	PENDING	NO	YES	YES
ENERGY EFFICIENCY	BETTER	BETTER	BETTER	BETTER	BEST
ACOUSTICAL	Varies with Options Selected				
IMPACT RATED	YES	YES	NO	YES	YES
SYSTEM WALL DEPTH	2 ¼"	3"	2 ¼"	VARIES	VARIES
TOP OR BOTTOM LOAD	BOTH	BOTH	TOP	BOTTOM	BOTTOM
STOCK FINISHES	White, Bronze, Clear Anodized, Dark Bronze Anodized**				
SIMULATED DIVIDED LITES (SDLS) OR INTERNAL MUNTINS	YES	YES	YES	YES	YES
GLAZING INFILL	¾" - 1 ¼"	¼" - 1 ½"	¾" - 1 ¼"	¾" - 1 ⅛"	1 ¼" - 1 ⅜"
MAXIMUM # OF PANELS	20	20	UNLIMITED	10 Manual Recommended (Motorized Available)	10 Manual Recommended (Motorized Available)
WATER PERFORMANCE***	9.0psf - 12.0psf	9.0psf - 12.0psf	LIMITED	6.0psf - 12.0psf	6.0psf - 12.0psf

*Custom configurations, oversized panels, and variations are available with engineering approval. Please contact a Solar Innovations® sales designer to discuss options.

**AAMA 2603-04-05 custom options are also available.

***Dependent on sill selection.



Skylights



RESIDENCE | STAFFORD, CT

Straight Eave Lean-To Pool Enclosure with Retractable Skylight

Let In the Sunshine

Skylights or glass roofs are the ideal choice when updating an existing pool structure or in applications where additional daylight is desired, but glass walls are not. This could include situations where the surrounding environment is not aesthetically pleasing, or if privacy of pool guests is an important factor.

FIXED SKYLIGHTS

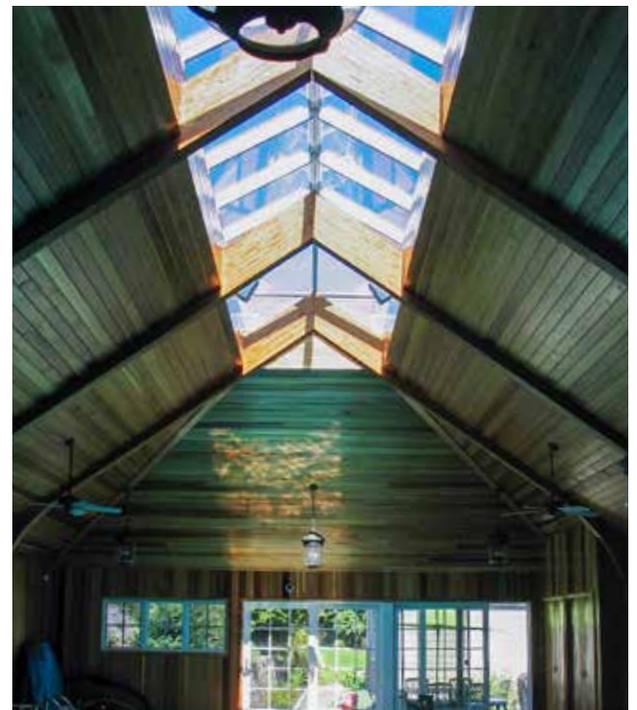
Fixed (or non-operable) skylights are comprised of panels that do not move or open. Fixed skylights can be built in nearly any size or configuration and can include custom shapes. The most common fixed skylights in pool enclosures are single slope and double pitch, with design opportunities that are nearly endless. Though fixed skylights do not open, they can include ridge vents to allow for air circulation and climate control.

OPERABLE SKYLIGHTS

Operable skylights offer a high-class pool and spa environment with the ability to open up to the outdoors. Bask in the outdoor climate when the weather is pleasant by adding retractable roof panels and operable ridge and eave vents to allow air to flow freely when desired.

GLASS ROOFS

Glass roofs are a unique and attractive addition to an existing building or new construction. Open up an entire roof or create a unique custom glazed slope to fit your needs. Typically, double pitch glass roofs can also incorporate custom pitches and configurations. They can also include dormers, roof lanterns, and other custom architectural features.

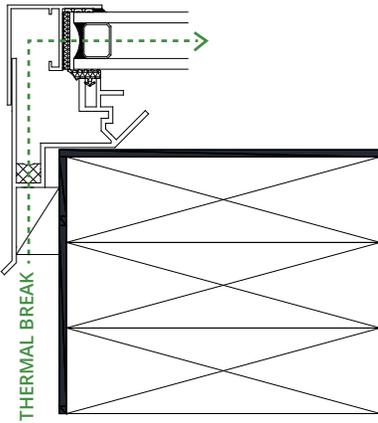


RESIDENCE | WESTPORT, CT

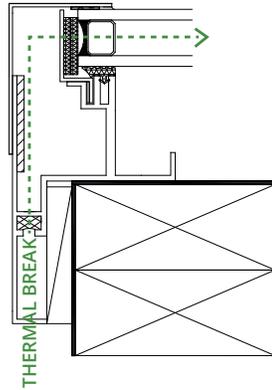
Hip End Lantern Skylight

Fixed Skylight Details

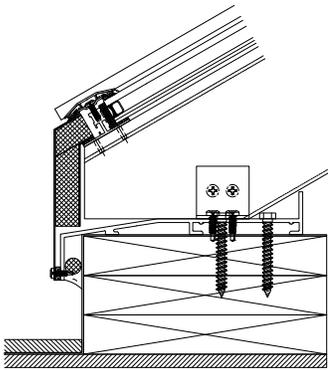
G2 WELDED CURB



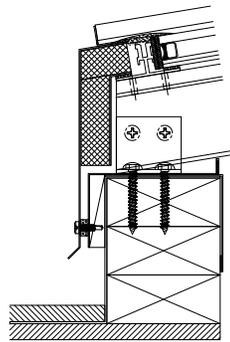
G3 WELDED CURB



EXTRUDED SKYLIGHT SILL



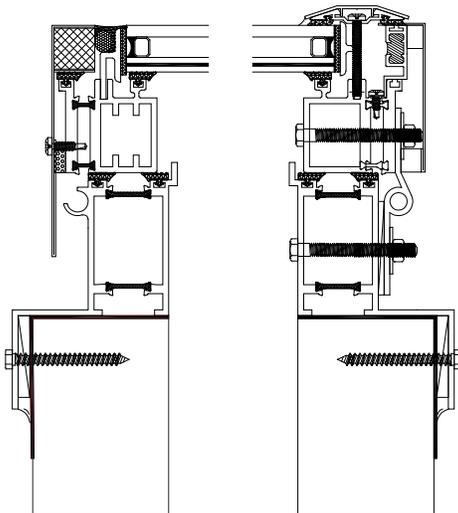
PAN FLASHING SILL



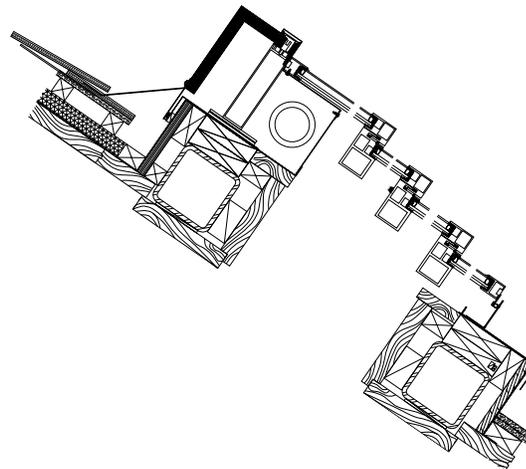
Operable Skylight Details

All operable skylights designed by Solar Innovations® are custom built to the owner's specifications. The sizing, finishes, and glass selection are all job specific and we can assist you with designing a skylight to fit your application.

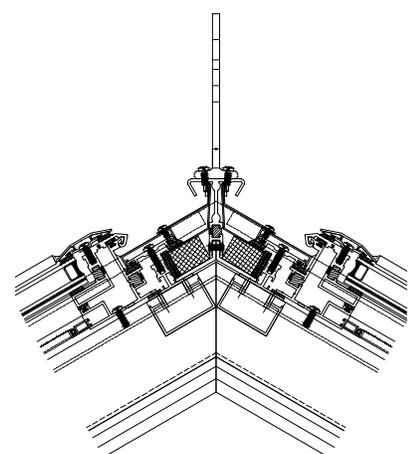
90° OPERABLE HEAD & SILL



G2 MULTI PANEL RETRACTABLE HEAD & SILL



G2 RIDGE VENT



Commercial Pool & Spa



OCEAN CLUB CONDOMINIUMS | ATLANTIC CITY, NJ
Straight Eave Double Pitch Pool Enclosure

Increase Revenue with Year-Round Sunshine

Pool and spa enclosures—as well as pool houses—are not only ideal for residential uses, but for commercial applications as well. Large sizes and custom configurations are available for any project. We can help plan the layout, heating, cooling, dehumidification, and any other potential challenges that may arise with your project. We work as a design partner with our customers to create the perfect custom environment for any application.

HOTEL & RESORT

Pool and spa enclosures are a unique and attractive addition to hotels and accommodations around the world. Allow guests to enjoy the pool and spa year-round and during any weather conditions.

Water parks offer a variety of attractions and gathering areas, all of which must be able to withstand constant wet or damp conditions without rotting, warping, or requiring frequent finish maintenance. Our high quality aluminum products—from glass structures to folding glass walls—stand up to this environmental challenge. High-performance sills are available in many products for increased water protection.

EDUCATIONAL & INSTITUTIONAL

From elementary schools to universities, swimming is a popular sport in schools. As more schools look to add swimming programs to their curriculum, a Solar Innovations® pool enclosure is a great addition to add to an indoor pool.

These structures are also great for spas, YMCAs, gyms, and other recreational institutions. Pool and spa enclosures allow businesses to provide customers with a summer experience year-round. Customers can enjoy the pool or spa without having to worry about the snow, rain, wind, leaves, insects, or any other outdoor nuisances.

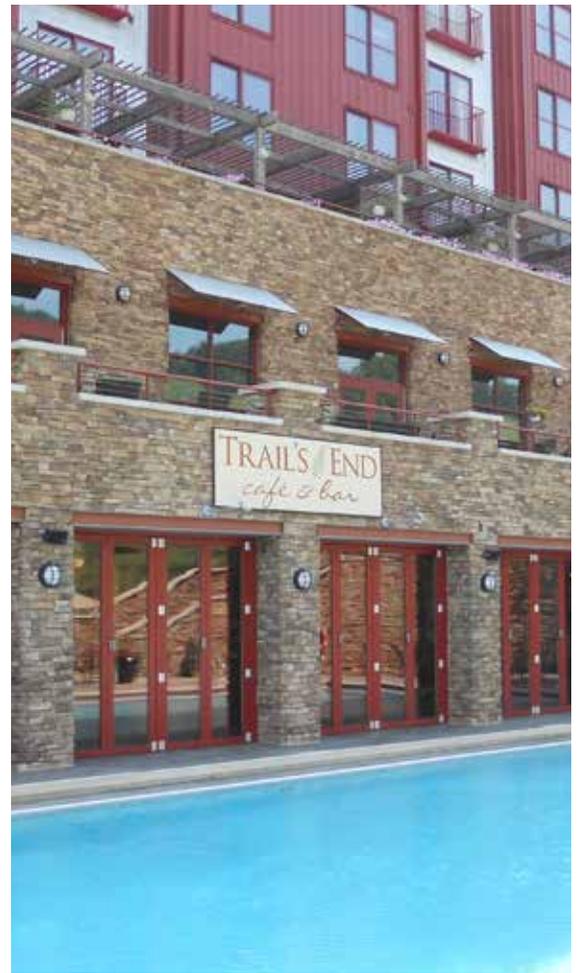
APARTMENT & CONDO

Pool and spa environments can be a deciding factor for many tenants looking for their next apartment or condo. High-quality pool houses or pool enclosures offer a luxury experience that can give a building or complex an advantage above the competition. Enclosing the pool will also save cost incurred from constantly opening, closing, and cleaning.



BAHAMA SANDS | MYRTLE BEACH, SC

Straight Eave Lean-To Pool Enclosure with G2 Folding Glass Walls



BEAR CREEK MOUNTAIN RESORT | MACUNGIE, PA

G2 Folding Glass Walls



ONE SPRING STREET CONDOS | NEW BRUNSWICK, NJ

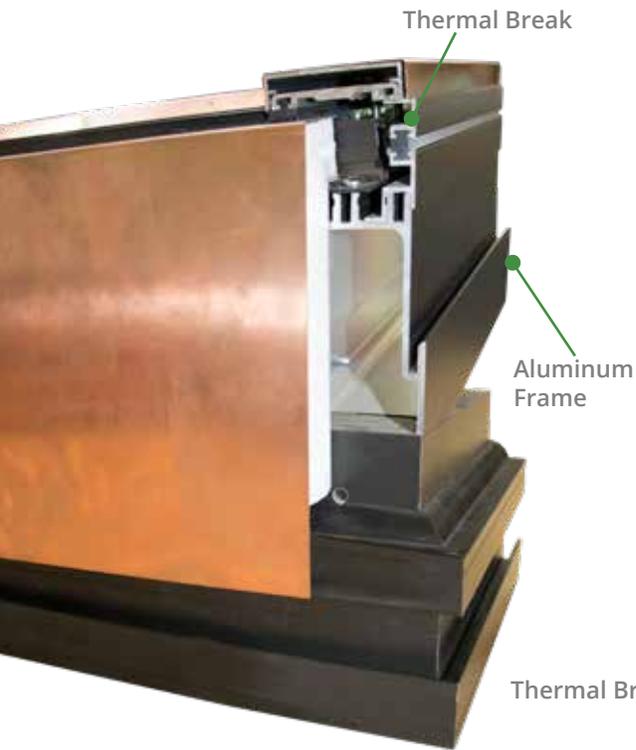
Straight Eave Double Pitch Pool Enclosure with Sliding Glass Doors



BLUEGREEN VACATION CLUB | HERSHEY, PA

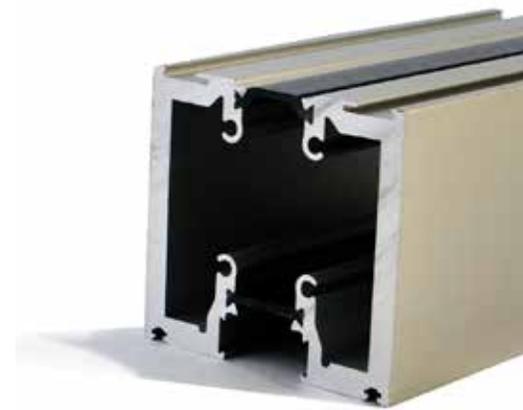
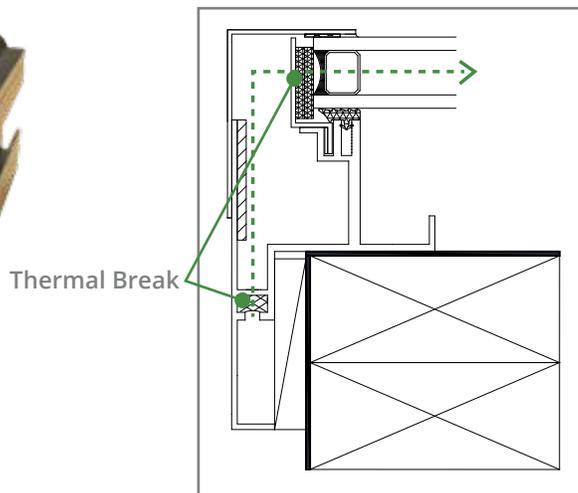
Straight Eave Double Pitch Pool Enclosure

Performance



Thermally Enhanced

The thermal break separates the aluminum and minimizes conductivity of heat and cold from the inside to the outside while ensuring the structure's interior remains more consistent all year long. One common strut construction method is threading a polyamide strut into the cavity between two aluminum profiles and crimping it into place. In the pour-and-debridge system, another thermally enhanced method, liquid polyurethane is poured into an aluminum cavity; once the polyurethane has hardened, the aluminum "bridge" around it is removed. Both methods improve thermal efficiency by breaking the continuous metal-to-metal contact of the highly conductive aluminum. Nonthermal aluminum frames should be used for interior applications or where thermal conductivity is not important.



Certified Products



TESTING

We are dedicated to providing safe, quality products to customers. Our in-house test labs offer the unique opportunity to execute tests quickly and efficiently with certification by nationally-recognized third parties.



HURRICANE IMPACT TESTED

We currently offer one of the largest selection of products tested for Florida ratings. They can withstand even the most extreme weather conditions.

NFRC Approved

- G2 Folding Glass Walls
- G2 Sliding Glass Door
- G3 Sliding Glass Door
- G3 Lift Slide Door
- Vinyl-Composite Tilt Turn Window
- Vinyl-Composite Terrace Door
- G2 International Windows (Fixed, Casement, Awning, Tilt Turn)
- Vinyl-Composite Sliding Glass Door
- Pan Flushing Skylight
- Welded Curb Skylight

- G2 Terrace Door
- G3 Terrace Door
- G2 Folding Glass Walls
- G3 Folding Glass Walls
- G2 Sliding Glass Door
- G3 Sliding Glass Door
- G3 Lift Slide Door
- G2 Aluminum Curtain Wall
- Wood Curtain Wall

- G2 International Windows (Fixed, Casement, Awning, Tilt Turn, Hopper)
- Vinyl-Composite Tilt Turn Windows
- Vinyl-Composite Sliding Glass Door
- Fixed Skylights
- 90° Operable Skylight

Visit our website, solarinnovations.com/testing for a full list of our certified products.

Finishing Touches

Glazing Options



LOW-E GLASS

Low-E glass includes microscopically thin transparent layers on the glass surfaces that reflect heat back to its source, keeping heat out in the summer, and warmth in during the winter. We offer several variations of tint intensity for the perfect selection in any climate.

- **LoE 272:** Our most common glazing, allows for clear views with the thermal benefits of Low-E glass.
72% VISIBLE LIGHT TRANSMITTANCE
0.41 SOLAR HEAT GAIN COEFFICIENT
- **LoE 366:** Increased performance with a slight tint, provides a comfortable space for both plants and people.
65% VISIBLE LIGHT TRANSMITTANCE
0.27 SOLAR HEAT GAIN COEFFICIENT
- **LoE 340:** Reduces solar heat gain drastically while allowing daylight to enter.
39% VISIBLE LIGHT TRANSMITTANCE
0.18 SOLAR HEAT GAIN COEFFICIENT

Other Low-E options are available from Guardian, PPG, and Viracon.



Pattern 62



Single Glue Chip



English Reeded



Satin Etch

DECORATIVE GLAZING

Decorative glazing is a broad category consisting of art glass and other unique glazing options. Additional custom decorative options are also available.

- **Pattern 62:** Pattern 62 offers an attractive appearance, obscurity, and light transmission capabilities.
- **Single Glue Chip:** Single glue chip or glue chip is a texture that resembles frost on a window pane during the winter cold.
- **English Reeded:** English Reeded glass is a ribbed glass. The ribs of the glass typically run horizontally.
- **Satin/Acid Etch:** Satin etched adds the appearance of a 3-dimensional texture. It should be used on an unexposed surface in an IG unit.



Lumira® aerogel

POLYCARBONATE

Polycarbonate is a popular alternative to glass; it is lightweight, sustainable, incredibly strong, and easily transported.

- **Lumira® aerogel** can be used to fill the polycarbonate for increased thermal ratings, and greatly reducing sound transmission differences. Another benefit of incorporating Lumira® aerogel is glare reduction — the diffused daylight offered by polycarbonate creates bright, even lighting in any space. Sustainable purchasing, optimum energy efficiency, occupant comfort, low emissions, and daylighting are all possible points that Lumira® aerogel can assist with for LEED certification.



Electrochromic

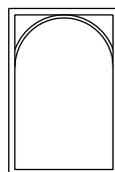
DYNAMIC GLASS

Dynamic glass can change automatically at specific temperatures, lighting conditions, or on demand. This allows for heat, light, and glare control any time of day.

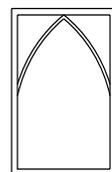
- **Electrochromic** is highly energy efficient glass switches between clear and tinted states on demand. In its tinted state, it blocks solar heat while controlling glare. In its clear state, it transmits more solar heat than typical Low-E glass.
- **Thermochromic** glazing darkens gradually and dynamically when heated by direct sunlight. The glass interlayer changes in reaction to ambient temperature and sunlight, managing a building's varied needs for passive solar heat gain, solar control, and natural daylight transmittance throughout the day.

Grid Options

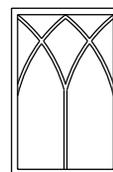
Grids are placed on the exterior and also on the interior of the window. This type of grid can be applied to monolithic or insulated glass. For additional grid options and grid dimensions, visit solarinnovations.com.



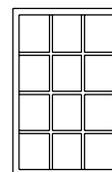
Arched Grid



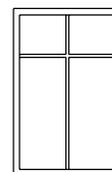
Gothic Grid



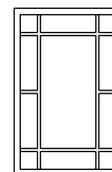
Double Gothic Grid



Traditional Grid



Cross Grid



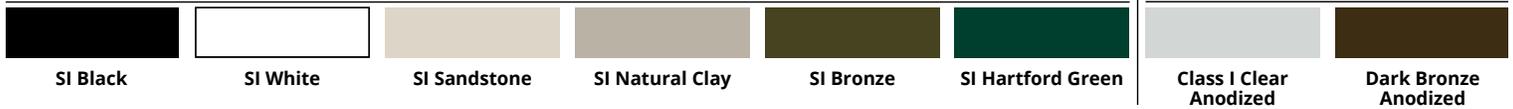
English Grid

Finish Options



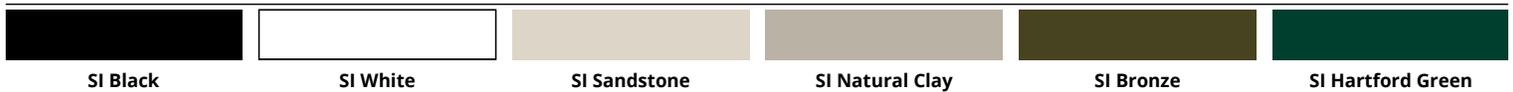
RESIDENCE | BRANCHVILLE, NJ
Straight Eave Double Pitch Pool Enclosure

Paint STANDARD - AAMA 2603 (5 year warranty). Finishes available while in stock.



Anodized Additional cost

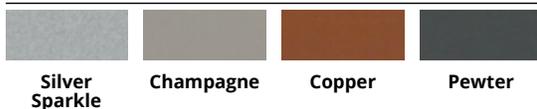
Paint DESIGNER - AAMA 2604 (5 year warranty), AAMA 2605 (10 year; up to 20 year warranty). Scratch & fade resistant; contains no VOCs.*



Powder Coat Solids AAMA 2604 (10 year warranty), AAMA 2605 (10 year; up to 20 year warranty). Scratch & fade resistant; contains no VOCs.*



Powder Coat Metallics AAMA 2604, AAMA 2605*



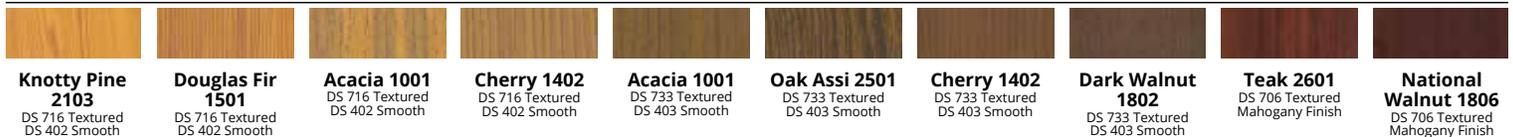
Metal Clad STANDARD*



Metal Clad DESIGNER*



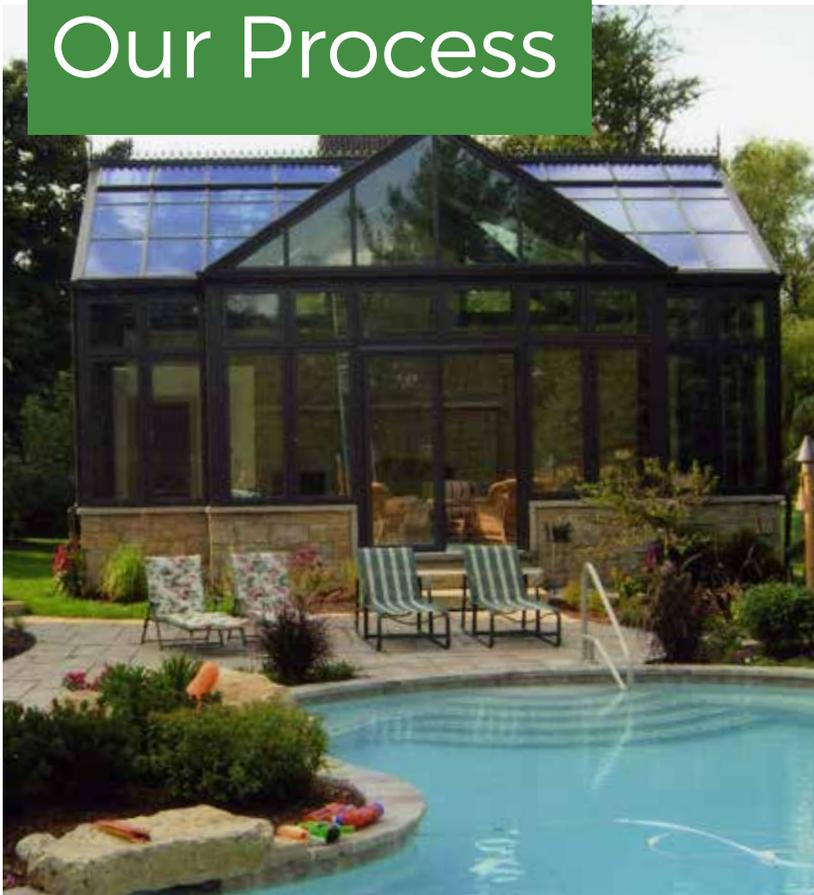
Decoral Finishes (Powder Coat)*



*Adds one to three weeks to lead time.

Note: Depending upon color selection, additional charges and increased lead times may apply. Extended warranties and service plans are available for an additional charge. Examples are shown as accurate as photography and printing processes allow. Final finish selection should be made from a physical sample; contact Solar Innovations® for samples. Product and finish options are subject to vendor availability. Solar Innovations® reserves the right to discontinue any option at any time without notice. Additional options, including custom color match, are available; contact Solar Innovations® for details. FSC options available.

Our Process



RESIDENCE | DOWNERS GROVE, IL
Straight Eave Double Pitch Pool House



RESIDENCE | ROCHESTER, NY
Straight Eave Double Pitch Pool Enclosure

1 Contact Us

There are three convenient ways to work with Solar Innovations®. If you aren't quite sure where to start, call us directly at (800) 618-0669.

OUR DEALER NETWORK

Our extensive network of dealers throughout the United States have experience in the glazing industry and with our products. Dealers are frequently able to visit the job site and work one-on-one with the customer, aiding in design, local permits, and installation.

ARCHITECTS, GLAZIERS OR CONTRACTORS

Your architect, glazier, or contractor can work with our inside sales designer to ensure you receive the best product information and communication experience possible. Specifications, quotes, and drawings can be directed to you to review.

INSIDE SALES DESIGNER

Contact our inside sales designers directly to help plan and specify your project.

2 Planning & Quoting

There are various stages of planning due to the large variety of products, configurations, and options Solar Innovations® provides. Our in-house sales team can help coach you through the process and educate you on the differences between options. Whether you're a dealer, architect, business, or homeowner, we will help you achieve the best product results.

You can call us directly at (800) 618-0669 or complete an online quote form at solarinnovations.com. Our quotes have a quick turnaround time and we will work hard to give the most competitive pricing when quoting your project.

3 Place an Order

Our ordering process is streamlined and efficient, giving you all the requirements for your project, shop drawings, lead times, and shipment dates. Once your order is placed, you will be paired with a dedicated project manager to guide you throughout the process.

4 Installation

We can provide installation and service for all of our products within a six-hour radius of Pine Grove, PA. Our expertly trained team is registered to complete installation in over 16 states. When utilizing our installation services, an experienced team will be scheduled to install the project upon completion of shop fabrication. Our team is trained in the correct protocols to ensure safe, efficient, and accurate system installation.

RESIDENTIAL & COMMERCIAL DOORS & WINDOWS | GLASS STRUCTURES | SKYLIGHTS

Folding Glass Walls
Slide & Stack Glass Walls
Clear Glass Walls
Sliding Glass Doors
Lift Slide Doors
Swing Doors
Pivot Doors

Casement Windows
Awning Windows
Tilt Turn Windows
Mulled Windows
Hopper Windows
Fixed Windows
Sliding Glass Windows

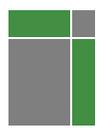
Folding Glass Windows
Curtain Walls
Wood Curtain Walls
Greenhouses
Conservatories
Sunrooms
Canopies

Pool Enclosures
Pool Houses
Walkways
Glass Railings
Fixed Skylights
Curb Mount Skylights
Barrel Vault Skylights

Double Pitch Skylights
Dome Skylights
Single Slope Skylights
Pyramid Skylights
Walkable Skylights
Retractable Skylights
90° Operable Skylights



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 **SOLAR INNOVATIONS**[®]
ARCHITECTURAL GLAZING SYSTEMS