

SKYLIGHT SYSTEMS

Natural Daylighting Solutions for Residential & Commercial Applications



SOLAR INNOVATIONS®
ARCHITECTURAL GLAZING SYSTEMS

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 and wood 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 | SANDUSKY, OH
True Radius Segmented Dome Skylight



RESIDENCE | MONSEY, NY
Operable Single Succah Skylight



RESIDENCE | LEESPORT, PA
Straight Eave Double Pitch Skylight

Design Considerations



RESIDENCE | SHARON, CT
Radius Dome Skylight with Curved Windows

LOCATION

Warmer locations require higher performance glass to limit heat gain while cooler locations require the glass to limit heat loss.

- A southern facing skylight is ideal for northern climates because it allows maximum exposure to sunlight and natural warmth. Extra cooling provisions may be needed due to the presence of the natural heat throughout the entire day.
- A northern facing skylight receives less sunlight during the day and an extra heating unit may be required.
- A southeast facing skylight will provide plenty of warmth and sunlight throughout the day, with shade cooling the enclosure in the late afternoon and evening.
- A southwest facing skylight will provide a cool shaded morning, but will warm up with sunlight throughout the afternoon and evening.

FOUNDATION

Solar Innovations® requires that any skylight be placed on a pre-built curb. Concrete foundations are ideal. If a unit is constructed on an uneven, poorly built curb it may cause shifting which over time may cause the glass to crack under pressure.

SIZING

The minimum curb height allowed by code is 4 inches, unless noted otherwise; Solar Innovations® recommends a 6 inch curb. We typically use four pitches that are preset for speed and efficiency: 14.75 degree and 30 degree are standard and 22.5 degree and 45 degree are alternates to the standards. Any pitch from $\frac{1}{12}$ to $\frac{16}{12}$ is possible, but increased fabrication and engineering times must be considered for custom options.

CLIMATE

Cooling and ventilation can be achieved in various ways:

- Ridge vents, combined with windows, will provide the air flow needed to cool the enclosure and maintain constant circulation.
- High performance glass is the best solution for a comfortable yet energy efficient enclosure.
- Laminated glazing protects your furnishings from the sun's harmful rays.

SHADES

We have various styles of shade systems that cool rooms and block the sun's exposure. Each option has its own benefits and situations when it's more advantageous to use. For more information about our shading systems, visit our website at solarinnovations.com/accessories/shade-systems.

ATTACHING TO AN EXISTING STRUCTURE

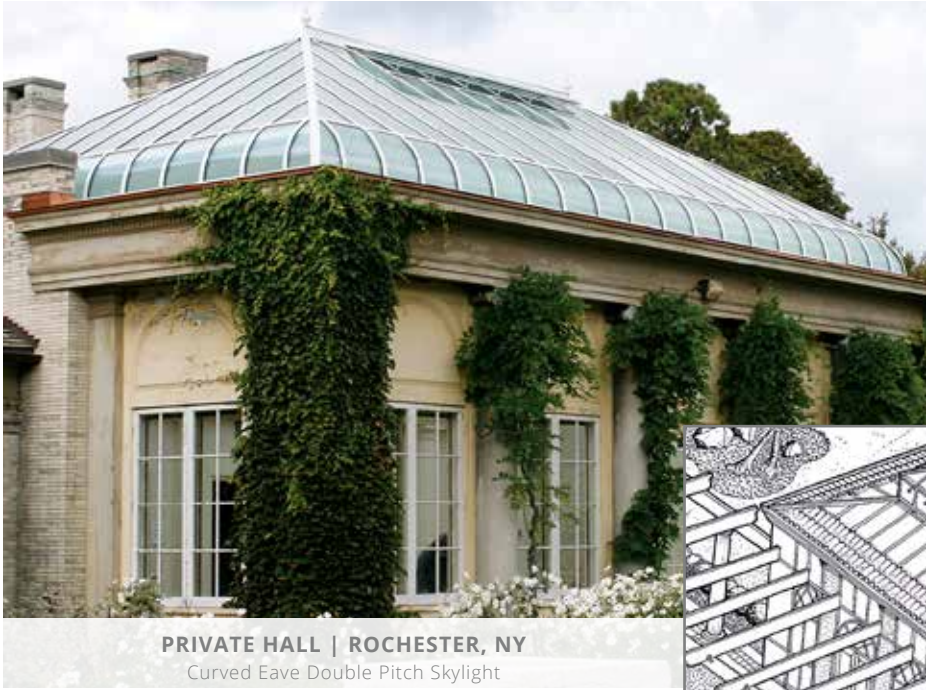
We will need all the details describing the surface to which your skylight will be attaching.

- For a bull nose or hip end skylight, the standard depth of the nose is half the width.
- A polygon skylight requires the length to be equal to the width.
- Always note the mounting height of the skylight. If it is higher than 12 feet, many local codes require laminated glass in the sloped glazing and possibly in the lantern glazing as well.
- If applicable, allow at least one foot of clearance under any existing roof overhang.
- Any site preparation and structural curbing needs will not be provided by Solar Innovations®.

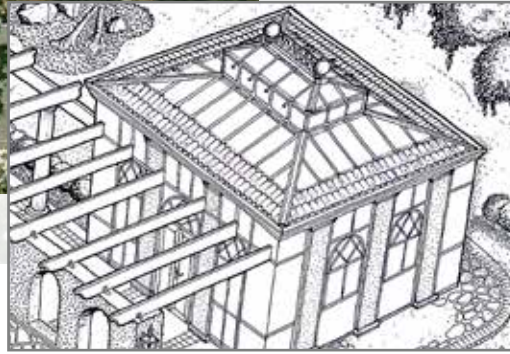
GLAZING

Solar Innovations® recommends laminated glass for all skylights. Upon impact, laminated glass will break into a spiral, but it will not fall out of the frame and injure those below it. Laminated glass also removes 99 percent of all harmful UV rays.

Traditional vs. Contemporary



PRIVATE HALL | ROCHESTER, NY
Curved Eave Double Pitch Skylight



HISTORIC CHARM

Classically designed English skylights are the epitome of style and tradition. Solar Innovations® offers glass skylights 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 skylights feature strong architectural styling and light interior design.

MODERN INNOVATIONS

Modern style skylights are often characterized by the simple forms and clean lines used to create their facades. The aesthetic of a modern skylight is usually minimalistic, clean, unadorned, and bold in color choice. Simple colors such as white, black, and gray are used throughout a modern space. Modern glass skylights typically feature interior finishes that consist of natural looking materials such as stainless steel and wood. Sustainability is often a key factor in the selection of materials for modern styling.



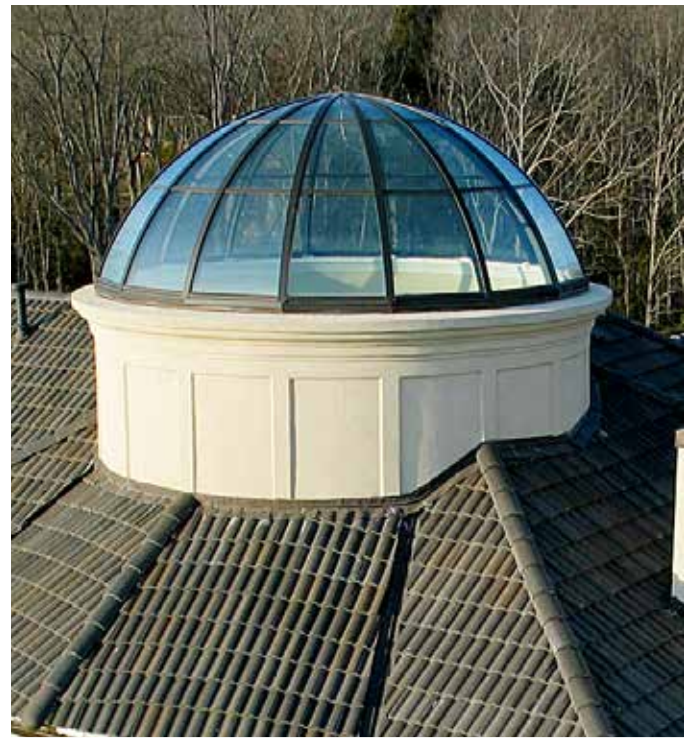
RESIDENCE | RYE, NY
Straight Eave Lean-to Skylight with Double Projection

Residential Skylights





RESIDENCE | ARMONK, NY
Circular Walkable Skylight



RESIDENCE | WAXHAW, NC
True Radius Segmented Dome Skylight

Limitless Design Options

Skylights brighten living spaces, creating a more comfortable and productive environment. Any room can benefit from increased natural light, including kitchens, living rooms, bedrooms, bathrooms, studies, and enclosed porches. Skylights can be paired with windows or operable walls to create a relaxing sunroom environment. Since Solar Innovations® has designed several skylight systems, virtually any roof glazing need can be met. Our skylights can attach to any substrate without size or design limitations, which make them ideal for any residential application.

Every skylight produced by Solar Innovations® is created custom for your project and there are no standard sizes. In addition, completely custom configurations or designs are possible. Our in-house design and engineering teams can help create a custom skylight to act as a focal piece for your project. Skylights have several unique delivery options, including pre-assembled/pre-glazed, pre-assembled/not pre-glazed, and knocked down.

PRE-ASSEMBLED/PRE-GLAZED

Pre-assembled/pre-glazed skylights can be shipped up to 8 feet by 8 feet depending on the configuration, accessories, engineering, shipping method, and installation logistics. The skylight is shipped as complete as possible, requiring a crane to hoist or lift the skylight into place. Once in place, the skylight only needs to be fastened to the structure to complete the installation. This option provides the ultimate manufacturing control and the greatest ease of installation. Pre-assembled/pre-glazed skylights up to 4 feet by 8 feet flat (non-walkable) and up to 8 feet by 8 feet geometric shapes also require engineering approval.

PRE-ASSEMBLED/NOT PRE-GLAZED

Pre-assembled/not pre-glazed skylights feature welded curbs and a pre-assembled frame which can be lifted or hoisted into place for factory assembled, water tight, and secure curb details. Installation is reduced to installing only glass, exterior caps, fasteners, and finishing the exterior seals. Pre-assembled/not pre-glazed skylights require less expertise and time to install than the knocked down models offered. Pre-assembled/not pre-glazed flat and geometric shaped skylights up to 8 feet by 8 feet require engineering pre-approval.

KNOCKED DOWN

Knocked down skylights have virtually no design size limitation. These skylights are shipped with parts pre-manufactured, wrapped, and labeled.

Commercial Skylights



A Brighter Side of Business

Natural daylight creates a more productive work environment, making skylights a popular choice for businesses of all kinds. Customers are also more attracted to brighter, naturally-lit environments. Skylights are commonly found in institutional settings like senior living communities, hospitals, and religious buildings as a source of natural light.

RESTAURANTS & RETAIL STORES

Everyone gets a window seat with a Solar Innovations® skylight. Incorporate a skylight into your restaurant or retail space to create a relaxing and enjoyable customer experience. Retractable skylights are popular in restaurants, opening up the environment during pleasant weather while keeping guests dry and warm during harsher conditions.

ECCLESIASTICAL APPLICATIONS

Skylights are a great addition to an old (or new) church that may not have many windows or has several stained glass windows. The addition of a skylight doesn't change the interior but, rather, enhances it. Natural light is proven to increase morale, so parishioners will enjoy the experience more. We can also add custom finials, such as crosses or religious figures, to be a focal point of the church.

HOSPITALS & SENIOR LIVING COMMUNITIES

Our modern contemporary look, blended with our thermally enhanced performance, make any skylight a great option for hospitals and senior living communities. Allowing natural light into rooms or entryways can be therapeutic to residents trying to heal. Exposure to natural sunlight is proven to nourish your psyche and reduce anxiety and stress.



LUDLOW HOUSE | NEW YORK, NY
Straight Eave Double Pitch Retractable Skylight



TRINITY PRESBYTERIAN CHURCH | BETHESDA, MD
Pyramid Skylight



VERIA WELLNESS CENTER | MONTICELLO, NY
16 Sided Polygonal Skylight

Operable Skylights



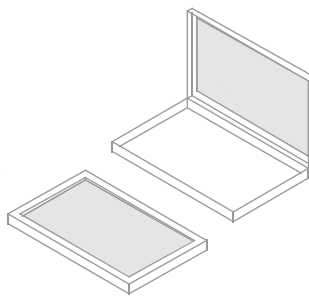
RESIDENCE | STRATFORD, CT
Straight Eave Lean-to Retractable Skylight

Open Up the Possibilities

Through our skylight evolution, Solar Innovations® is able to provide fully operable skylights in glass options to meet the specifications of our customers.

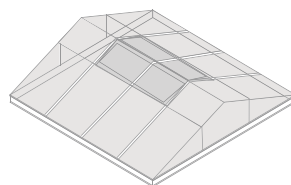
90° OPERABLE SKYLIGHTS

A 90° Operable Skylight lifts the glazed unit, or “lid,” 90 degrees from the plane of the curb. This type of skylight offers several applications and functions, the main being ventilation. A typical ridge vent or standard operable skylight only opens a few degrees, while the 90° Operable Skylight fully opens, allowing for optimum ventilation. At times, large equipment may need to be moved into a room, but the building doors are not large enough, or a building may require easy access to the rooftop; in either situation, a 90° Operable Skylight is an ideal solution. These can be motorized or manually operated.



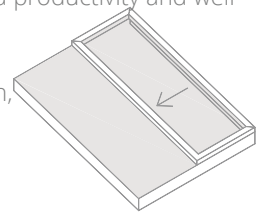
OPERABLE RIDGE VENTS & VENTING SKYLIGHTS

Operable ridge vents are used to bring fresh air and circulation into a room and operate with the use of a continuous hinge. Hot air rises and accumulates at the peak of the house. As the ridge vents are opened, the hot air escapes and fresh, cool air enters, allowing the air to circulate. Both ridge vents and venting skylights can be utilized in any skylight or glass structure, such as greenhouses and sunrooms. These can be motorized or manually operated.



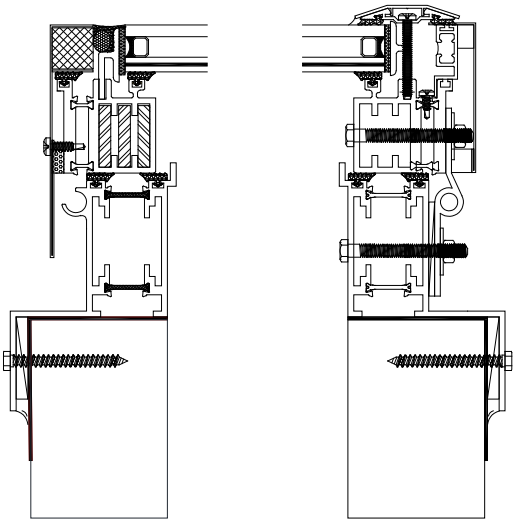
RETRACTABLE SKYLIGHTS

Retractable skylights provide clear, unobstructed views and increased airflow for all residential and commercial structures. Natural daylight, fresh air, and circulation are all beneficial to occupants, providing a more positive environment. Offices with natural light show increased productivity and well-being of employees. Retail stores can use skylights to highlight products in a clean, bright setting. Residential greenhouses and pool enclosures are common applications for retractable skylights.



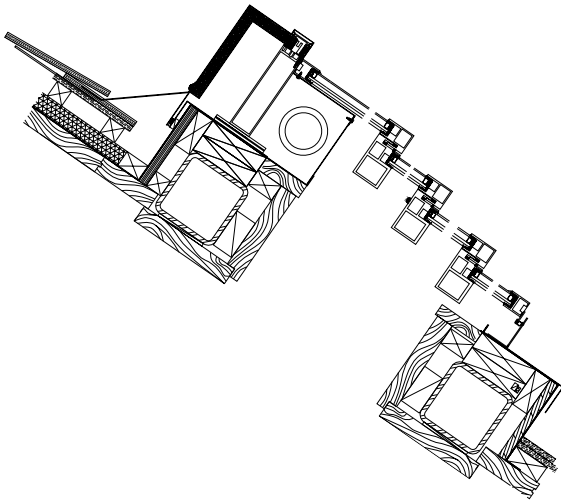
Details

90° OPERABLE HEAD & SILL



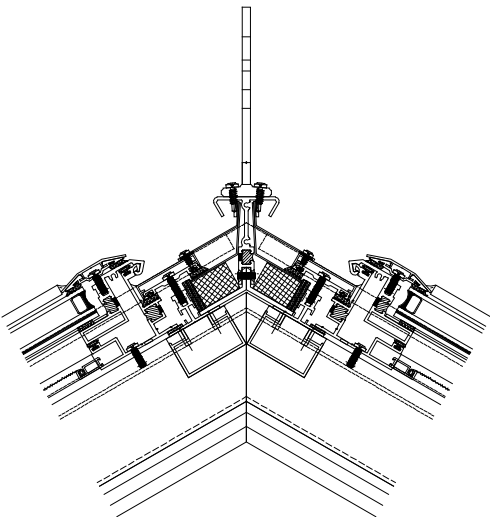
RESIDENCE | BROOKLYN, NY
Two 90° Operable Skylights

G2 MULTI-PANEL RETRACTABLE HEAD & SILL



RESIDENCE | NEW YORK, NY
Multi-Panel Retractable Skylight

G2 RIDGE VENT



RESIDENCE | STOWE, VT
Straight Eave Double Pitch Skylight with Operable Ridge Vent

Fixed Skylights



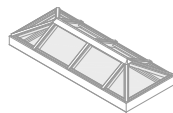
RESIDENCE | CARLISLE, MA
Two Fixed Single Slope Skylights

Any Shape or Size

Solar Innovations® offers fixed skylights in virtually any size and can accommodate a wide range of design requirements, including impact certified options and Florida Approved Products.

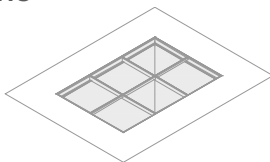
WELDED CURB SKYLIGHTS

Welded curb skylights are uniquely designed to eliminate water penetration. Though these skylights can be attached traditionally through the top of the curb, units can be fastened through the side as well.



WALKABLE SKYLIGHTS

Walkable skylights by Solar Innovations® are the ideal natural lighting solution when space is limited or travel cannot be prohibited. Light can pass between multiple floors or into dark basements without surrendering the ability to travel freely. We recommend frit glass for walkable skylights.



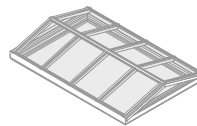
SINGLE SLOPE SKYLIGHTS

Single slope skylights are simple, yet suitable for a wide variety of projects and applications. These skylights are available for any roof pitch and nearly any size.



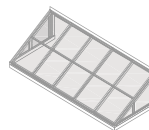
DOUBLE PITCH SKYLIGHTS

Double pitch skylights consist of two sloped sides that meet at a ridge. Decorative elements like ridge cresting and finials can be added to the skylight to create a more traditional appearance.



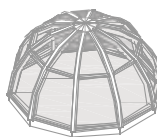
LEAN-TO SKYLIGHTS

Straight eave, lean-to skylights are versatile, can be attached to structures in areas with space constraints, and are equally impressive when utilized in long spans.



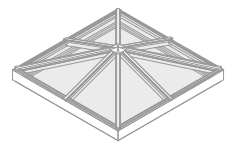
DOMES SKYLIGHTS

All dome skylights are designed to your exact dimensions. These skylights can be found in living rooms or surrounding a spa, allowing natural light to penetrate the room while offering a classic appearance. Radius and segmented glass options are available.



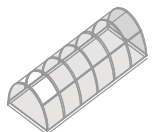
PYRAMID SKYLIGHTS

Pyramids are one of the oldest shapes in architectural history. A pyramid skylight is an affordable design option. The shape allows for snow run-off and can be customized to different pitches. All dimensions are custom as well, which means you do not have to stick to a standard model.



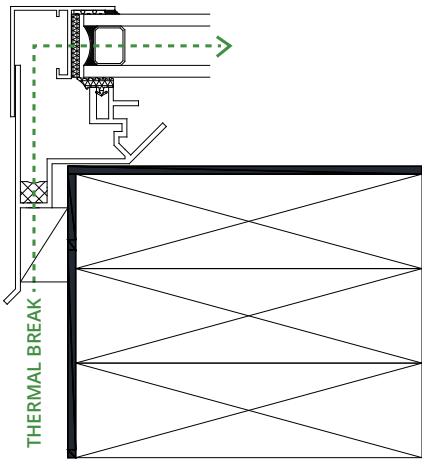
BARREL VAULT SKYLIGHTS

A barrel vault skylight is a beautiful choice for residential skylights. Barrel vault skylights are often used in open air atriums or corridors connecting two spaces to filter light into dark or dimly lit areas. Radius and segmented glass options are available.

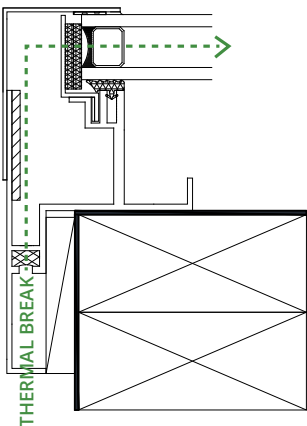


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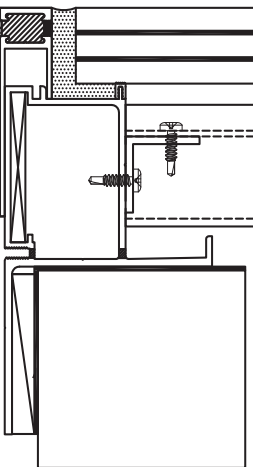
G2 FLAT WELDED CURB



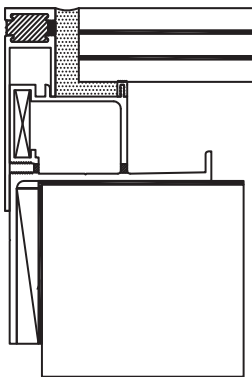
G3 FLAT WELDED CURB



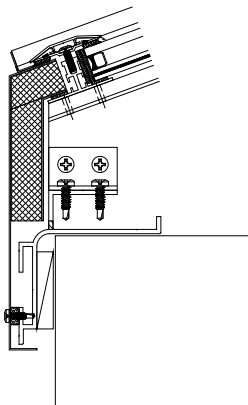
WALKABLE HIGH FRAME



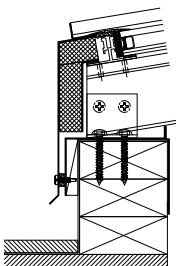
WALKABLE STANDARD FRAME



VARIABLE PITCH WELDED CURB



PAN FLASHING SILL



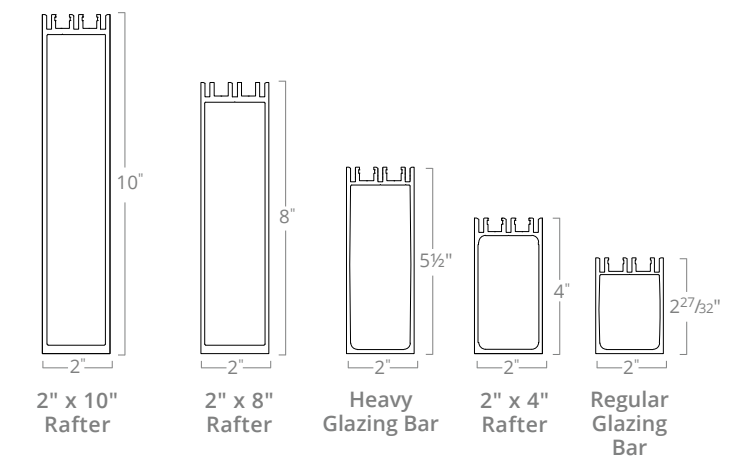
RESIDENCE | HOUSTON, TX
Straight Eave Lean-to Skylight



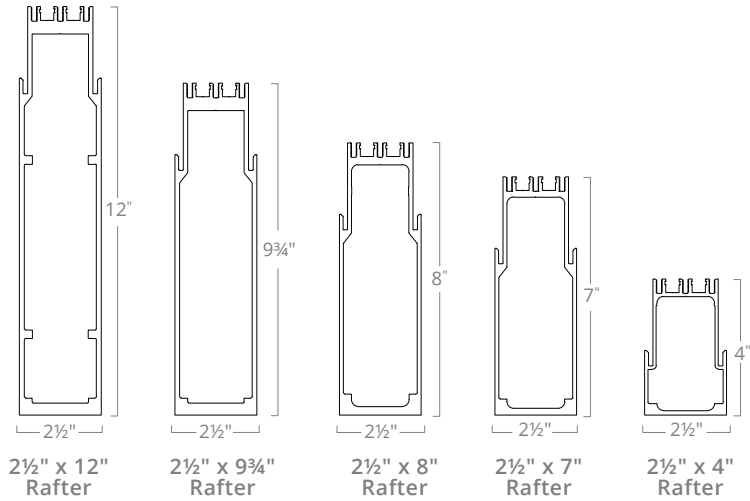
RESIDENCE | OLD GREENWICH, CT
Irregular Conservatory Nose Skylight

Details

2" RAFTER SYSTEMS



2½" RAFTER SYSTEMS



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





RESIDENCE | WYNDMOOR, PA
Pyramid Skylight



RESIDENCE | PALM BEACH, FL
Welded Curb Pyramid Skylight



OYSTER BAY MANOR | OYSTER BAY, NY
8 Sided Polygonal Skylight

Wood Interiors



RESIDENCE | MORGANTOWN, WV
Straight Eave Double Pitch Skylight

Natural Light Meets Timeless Beauty

Solar Innovations® skylights are available in custom wood interiors, which pair the beauty of classic wood interiors with the durability and dependability of aluminum exteriors. Moldings and trims on the interior can be formed to match existing architectural elements on your house.

Thermal efficiency tends to be higher with a wooden skylight because wood allows for lower U-values. The lowered U-value means that the room will maintain a more even temperature and will not lose as much heat in the cold winter months. Wood interiors are not recommended in structures that have high moisture, such as greenhouses and pool enclosures due to wood's natural tendency to warp and rot over time from the moisture exposure.

FINISH OPTIONS



White Oak



Red Oak



Hard Maple



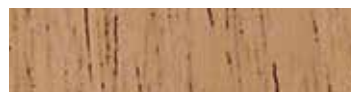
White Ash



Cherry



Douglas Fir



Sapele Mahogany



Walnut

Please Note: Depending upon color selection, extra cost and lead times may apply for all finishes other than Solar Innovations® stock standards. Color illustrations are shown as accurate as standard photography and printing processes allow. Final finish selection should be made from a physical sample; please contact Solar Innovations® to receive samples. All 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 matches, are available; contact a Solar Innovations® sales designer for details.



RESIDENCE | SHAVERTOWN, PA
Straight Eave Double Pitch Skylight



RESIDENCE | WESTPORT, CT
Hip End Lantern Skylight



RESIDENCE | SHAVERTOWN, PA
Straight Eave Double Pitch Skylight

Canopies

Make a Grand Entrance

Canopies typically consist of an overhead aluminum awning with supporting posts and exposed sides. Canopies can range from a simple overhead barrier to an elaborate radius barrel vault design. All canopies ward off rain and snow. Solar Innovations® designs canopies for both commercial and residential applications.

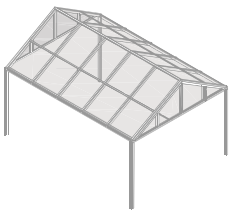
RESIDENTIAL APPLICATIONS

Outdoor kitchens, patios, and carports are all common residential applications. All of these canopies provide you and your guests shade and protection from the weather. The shape and size of each canopy is completely custom and can be designed to virtually any specification, including hurricane requirements and high snow loads.

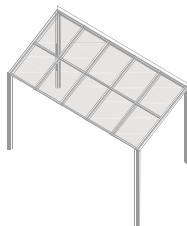
COMMERCIAL APPLICATIONS

If you are considering improving your commercial building with a glass canopy, Solar Innovations® can provide cost effective options. Common uses for commercial aluminum canopies are entrances to a business, ambulance entrances for hospitals and senior living communities, and airports. Glass canopies are ideal for shading guests on restaurant patios, along with improving the aesthetics of the building.

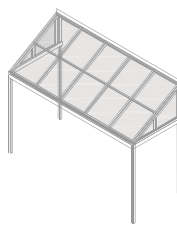
CONFIGURATIONS AVAILABLE



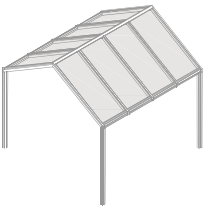
Straight Eave Double Pitch Canopy



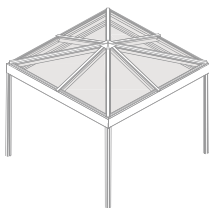
Flat Canopy



Straight Eave Lean-to Canopy



Ridge Mount Canopy



Pyramid Canopy



RESIDENCE | PORT REPUBLIC, VA

Straight Eave Double Pitch Canopy



RESIDENCE | LANCASTER, PA

Irregular Canopy Carport



RESIDENCE | BRYN MAWR, PA

Straight Eave Double Pitch Canopy

Walkways



RESIDENCE | OLD WESTBURY, NY
Straight Eave Lean-to Walkway



RESIDENCE | NEW YORK, NY
Irregular Straight Eave Lean-to Walkway

Providing a Gateway to Nature

Glass walkways are typically pathways enclosed on all four sides that connect two buildings or provide a sheltered walking area. Glass walkways can range from a simple lean-to attachment to a free standing decorative thoroughfare. Solar Innovations® durable aluminum walkways are designed to withstand exposure to the elements for years to come. Unlike wooden canopies, an aluminum structure will not rot, warp, or require constant finish maintenance. Each walkway is designed to your needs, including shape, size, and overall design; hurricane and high snow load requirements can also be met with a Solar Innovations® walkway.

COMMON APPLICATIONS

Walkways between a house and garage are common. Connecting the route from your home to a sunroom, greenhouse, conservatory, or pool enclosure is also a practical walkway use. All of these applications provide shade and protection from the weather as people pass from one location to another, while enjoying the view around them.

WINDOW & DOOR INTEGRATION

Doors and windows can be incorporated into the design, allowing ventilation of the structure and to provide an exit.

ONE OF A KIND

Each job is built to your exact specifications; any shape or size can be created. Complex designs with multiple levels and directional turns are a welcome challenge. In-house engineers ensure the walkway's ability to withstand high wind, snow, and water loads.

CUSTOM CONFIGURATIONS

The most common walkway designs include double pitch, lean-to, and curved barrel vault. Decorative options such as grids, finials, and ridge cresting can be added to almost any configuration.

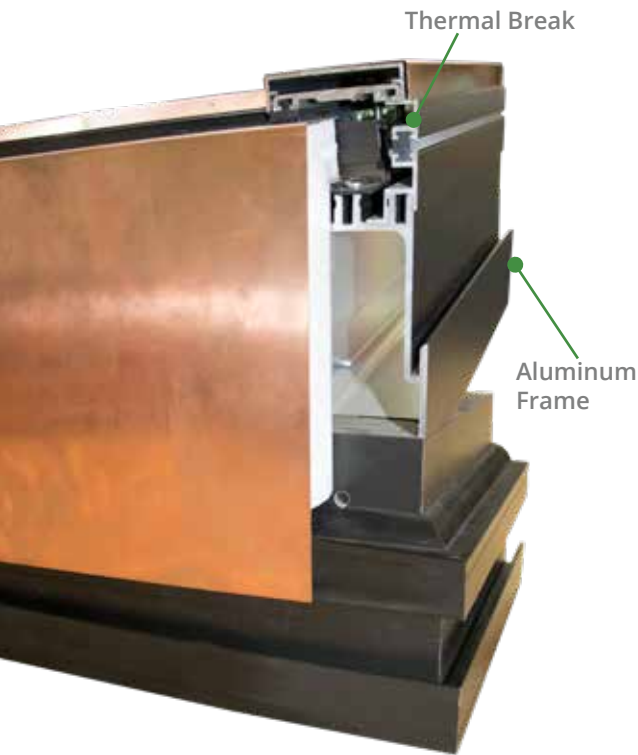
GLAZING OPTIONS

Various glass options are available; the majority of the roof will consist of laminated glass, while the walls usually feature tempered glass. Glass tints, such as low-E, and additional color options are available for walkways.

COMMERCIAL APPLICATIONS

Commercial aluminum walkways are commonly used in healthcare facilities, schools, hotels, and businesses. They not only serve a practical purpose but can also create a decorative focal point.

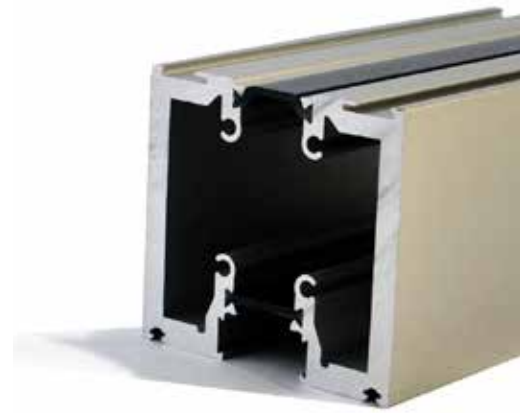
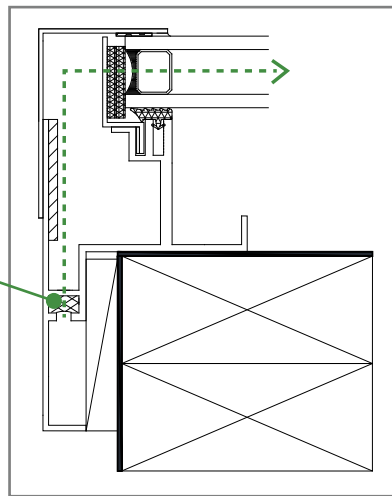
Performance



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.

Thermal Break



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.

NFRC Approved

- Welded Curb Pyramid
- Pan Flashing



HURRICANE IMPACT TESTED

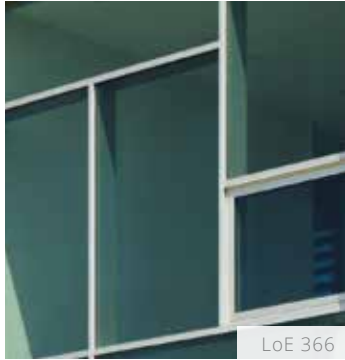
We currently offer one of the largest selection of products tested for Florida ratings. They can withstand even the most extreme weather conditions.

- Welded Curb Pyramid Skylight
- Welded Curb Skylight
- 90° Operable Skylight
- Biparting 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

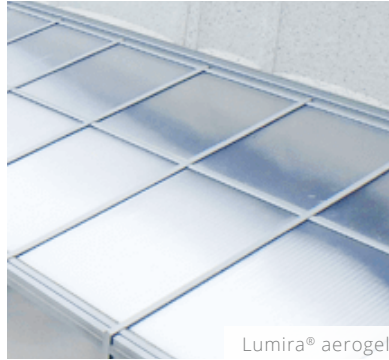


Satin Etch

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

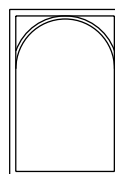
DYNAMIC GLASS

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.

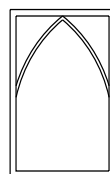
- **Electrochromic** is highly energy efficient glass switches between clear and tinted states on demand. In its tinted state, it blocks solar heat while controlling glare. In its clear state, it transmits more solar heat than typical Low-E glass.
- **Thermochromic** glazing darkens gradually and dynamically 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

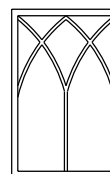
Grids are placed on the exterior and also on the interior of the window. This type of grid can be applied to monolithic or insulated glass. For additional grid options and grid dimensions, visit solarinnovations.com.



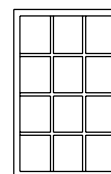
Arched Grid



Gothic Grid



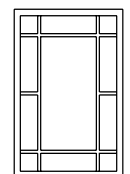
Double Gothic Grid



Traditional Grid



Cross Grid




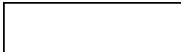



English Grid

Finish Options



RESIDENCE | BROOKLYN, NY
90° Operable Skylight

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

					
SI Black	SI White	SI Sandstone	SI Natural Clay	SI Bronze	SI Hartford Green











Anodized Additional cost

	
Class I Clear Anodized	Dark Bronze Anodized

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

					
Black FRSL 11618	White FRSL 83247	Sandstone FRSL 46647	Natural Clay FRSL 47591	Bronze FRML 97138	Hartford Green FRSL 32872

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

									
Apollo White FRSL 82908	Bone White FRSL 82909	Ivory FRSL 46646	Seawolf FRSL 46645	Fashion Gray FRSL 74652	Colonial Gray FRSL 74653	Charcoal FRSL 74654	Antique Bronze FRSL 46648	Burgundy FRSL 62496	Military Light Blue FRSL 21709

Visit <https://www.ifscoatings.com/content/assets/Uploads/brochures/IFS-Architectural-Digital-Color-Card.pdf> for additional metallic and anodic finishes.

















Metal Clad STANDARD* (EXTERIOR ONLY)

	
Copper	#4 Polished Stainless Steel





Metal Clad PREMIUM*

				
Rheinzink Bright Rolled**	Rheinzink Blue Gray**	Rheinzink Graphite Gray**	Brass	Bronze

Decoral Finishes (Powder Coat)*

	Aged Dark Oak		Aged Light Oak		American Douglas		American Maple		Cherry		Cherry w/Flame		Colony Maple		Dark Walnut
	European Cherry		Golden Oak		Knotty Pine		National Walnut		Oak		Oregon Douglas		Table Cherry		Teak

Wood/Glulam STANDARD*

			
Red Oak	White Ash	Hard Maple	White Oak

Wood/Glulam PREMIUM*

			
Douglas Fir	Cherry	Sapele Mahogany	Walnut

*Lead times subject to availability. ** Special order.

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.

Our Process



RESIDENCE | CAMBRIDGE, MA
Curb Mount Single Slope Skylight with Operable Ridge Vents



THERAPY CENTER | MAUI, HI
Polygonal Roof Lantern

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
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

