CONSERVATORIES & SUNROOMS
Blending Timeless Charm with American Innovation
Quality Innovation not only creates long-lasting partnerships with our customers, because innovation not only creates long-lasting partnerships with our customers, but also facilitates our ability to make quality projects. We enjoy tackling some of the most complex projects that others in the industry will not touch, simply because they cannot. Our commitment to completing the highest quality projects, so a site visit will not always be required.

CUSTOM DESIGNS
Ingrained in our company’s DNA is a ‘never say no’ customer service attitude. This mentality has been the catalyst for each product we offer by Solar Innovations® and continues to drive us to become the premier dealer, installer, and window, skylight, greenhouse, and conservatory provider in North America. Some of Solar’s greatest innovations have developed from unique customer requests that others could not fulfill.

MADE IN THE U.S.A.
All of our products are designed and manufactured in the United States at our state-of-the-art facility in Pine Grove, PA. By producing as many components within our own manufacturing facility as possible, we have greater control over cost and lead times. Superior technical support can also be offered for our products because it is provided directly within the retail location that created or assembled the product, unlike many in our industry that source their parts from places outside the United States. We are a single source supplier of aluminum, wood, and vinyl-composite glazing systems which all help to meet technical consistency throughout your project. Solar provides all fasteners, silicon, and sill flashings as needed, plus project specific shop drawings; our competitors typically add 10% in material and labor costs, which does not include engineering, sourcing, and shipping costs.

DRIVE TO SUCCEED
In Solar Innovations® we push the envelope by continually developing innovative ways to build the products our customers are requesting. Our deep-rooted core values strengthen our commitment to competing the highest quality projects. We enjoy tackling some of the most complex projects that others in the industry will not touch, simply because we innovate not only creates long-lasting partnerships with our customers, but it also facilitates our ability to make products better than others in the industry.

Our team has the technical skill and experience to evaluate your situation and determine the most effective options for repair, service, or replacement of your door installation and service work in over 26 states. Find out more on our installation services on the “Our Process” page.

eco-friendly products
Our materials are sourced from local suppliers which helps to reduce the cost of transportation and lowers our local economy strong. Our products also feature high thermal performance, making them an energy-efficient option for homes and commercial spaces. Even more, our systems include recycled content and are LEED certified. LEED credits are available in the following categories: Materials & Resources (Recycled Content), Indoor Environmental Quality, Daylight, and Regional Priority (within 500 miles of our facility). Other credits may also apply depending on the application. In addition, Solar is proud to be a LEED Gold certified facility, thanks to our team’s green practices.

COASTAL APPLICATIONS
Our systems have the ability to meet coastal requirements. We use finished aluminum and stainless steel components in our hardware, making our materials durable against the corrosive effects of the elements in coastal regions.

INSTALLATION
Whether your approach is purchased factory direct or through our dealer network, Solar Innovations® can provide installation and service work 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 over 26 states, find out more on our installation services on the “Our Process” page.

REPAIR & REPLACEMENT SERVICES
Our team has the technical skill and experience to evaluate your situation and determine the most effective options for repair, service, or replacement of your door or window. All drawings, and information are permanently saved for each of our projects, so a site visit will not always be required.

QUALITY IN-HOUSE TESTING
The quality of our products is second to none and includes some of the highest test ratings in-class with most of our products tested within our facility. Our test labs, Solar Innovations® offers a vast line of tested products that meet various certifications which include NFRC, Florida Impact, Miami-Dade, and TDI. Our products are specifically designed and engineered to your project location.

Why Solar Innovations®?
SINGLE SOURCE PROVIDER
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In the U.S.A.
VERTICALLY INTEGRATED
Engineering, product testing, and product design all take place within our own facility. We machine many of our own parts, paint most of our own material, and create our own custom hardware. By producing as many components within our own manufacturing facility as possible, we have greater control over cost and lead times. Superior technical support can also be offered for our products because it is provided directly from the retailer that created or assembled the product, unlike many in our industry that source their parts from places outside the United States.

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Building in Regulated Areas

Towns and building developments have varying regulations associated with construction. It is important to adhere to municipal ordinances beginning with a project’s development. We recommend you provide Solar Innovations® with a full set of regulations so we can ensure your structure adheres to specifications. Renditions can be created for submission and approval before a project is finalized.

Historic districts may have specific requirements for all building alterations to ensure they match the aesthetic standards of your community. You may be subject to the same regulations. Solar Innovations® can manufacture structures uniform.

Design Considerations

Sizing

When selecting the size of your conservatory/sunroom, it can be a challenging dilemma, especially if you are not restricted to a specific area. Before finalizing your plans, please consider the following tips to find an appropriate structure size:

- Identify the desired function of the structure
- Account for the conservatory or enclosed capacity for both people and/or plants
- An interior floor plan — including walkways, windows, and doors — can be created on site. Remember that roughly one foot from each wall will be consumed by the foundation and framing.

Location

Structures should be positioned to receive maximum sunlight exposure. A southern facing sunroom will receive the most consistent amount of direct sunlight and conserve heat. A northern facing sunroom receives the least amount of sunlight and may require a heating system during colder weather.

Conservatories or sunrooms are not limited to ground floor installations. In urban areas where vertical expansion is the only option, rooftops and balconies provide creative solutions for entertainment and dining areas. Solar Innovations® in-house engineers design structures with specific wind and snow loading specifications in mind.

Glazing

In most cases, clear glass is recommended as the best choice for your project if you intend on housing delicate plants that may be harmed by direct sunlight. If your conservatory or conservatory is designed to be combined with your daily living space, tinted glass may be a good choice. Tinted glass reduces the U-value of the glass, meaning it protects plants and helps maintain temperature.

Solar Innovations® also recommends that any structure be placed on a pre-built solid foundation with concrete being the best option. If the enclosure uses a base wall, it is still recommended to have a solid footer.

Nearby Trees

Many consumers become concerned with the trees located on the property near their conservatory specifically that falling trees may break the conservatory glass. Should the conservatory actually suffer an impact, the use of tempered and laminated glass will reduce the risk of breakage or leaks. Trees can also be beneficial as well; a deciduous tree will provide shade from summer heat and allow sunlight into the conservatory during the winter months. Solar does not recommend locating your conservatory near an evergreen tree since it can block winter sunlight. Keep in mind that large trees and buildings can hinder the light in a conservatory during specific times of day.

Elevation

Conservatories and sunrooms are not limited to ground floor installations. Ground level structures may be the most common, but second story or higher installations are also possible. In urban areas, conservatories provide extra space to entertain on rooftops. Other applications of second story conservatories or sunrooms include balconies and terraces. The installation of a structure on a second floor allows the owner to take advantage of the scenic views of the city skyline or nearby mountains.

Solar Innovations® resident engineers design structures with specific wind and snow loading specifications in mind.

Attaching to an Existing Structure

To make your project run smoothly, please provide all of the details describing the surface to which the enclosure will be attaching. We recommend to consider window and door locations to allow for proper ventilation.

The following options are recommendations by Solar Innovations®:

- Solar Innovations® recommends a standard 33 inch base wall for any enclosure that will contain multiple furnishings.
- Allow at least one foot of clearance under any existing roof overhang to provide adequate space for flashing and other ridge connections.
- Solar Innovations® in-house engineers design conservatories to meet specific wind and snow loadings for elevated applications.

Base Wall

Solar Innovations® recommends a standard 33 inch base wall for any enclosure that will contain multiple furnishings. The reason for this is to conceal furniture backs, walls, or any other contents that are not visually pleasing from the outside. If a base wall is used, it can be constructed to match the existing design of the house and make the transition between structures uniform.
**What is the Difference Between a Conservatory and a Sunroom?**

Sunrooms and conservatories are functionally very similar, but are differentiated by the level of stylistic decor present in the structures design. Conservatories, by nature, are highly decorative and period specific; they can feature window grids, finials, crown molding, Palladian arches, ridge cresting, and other decorative elements.

**CONSERVATORY**

Conservatories are glazed structures that feature a glass roof and/or glass walls. These structures can be attached to existing construction or be manufactured as standalone units. The term “conservatory” is more commonly used in Europe, especially in England.

Conservatories originated in the 16th century as a way to preserve citrus and other plants brought back by explorers to Europe. The original purpose of the English conservatories was to protect plants from strong breezes, wind, and extreme cold weather.

While conservatories can house and even propagate plants, their primary function is the creation of additional living space. Conservatories serve as seating areas, dining rooms, living rooms, kitchen extensions, and pool houses, the possibilities are endless.

**SUNROOM** — also known as a solarium — is a term most commonly used in countries such as the United States, Australia, New Zealand, and Canada, and is typically less decorative than a conservatory. The room can either be added to a building or to a pre-existing room that can be modified to become a sunroom by replacing the roof with a glass roof.

Grids can be integrated into windows, ridge cresting can adorn the structure’s roof line, and/or a Palladian arch can be inserted into a gable end to provide stylistic accents.

Sunrooms can also create a unique focal point or blend seamlessly into the surrounding architecture.
Traditional vs. Contemporary

HISTORIC CHARM
Classically designed English conservatories are the epitome of style and tradition. Solar Innovations® offers glass structures constructed of aluminum framing that do not expand or contract with the changing weather, will not require constant maintenance, or suffer termite damage. Cast aluminum profiles, Palladian arches, finials, and ridge cresting can also be added to complete the traditional appeal. English conservatories feature strong, architectural styling, light interior design, and also 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 roof and walls to help reduce glare and heat gain.

MODERN DESIGN
Modern style conservatories are often characterized by the simple forms and clean lines used to create their exterior facades. These conservatories 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 grey are used throughout a modern conservatory space with accents of bright colors such as red, blue, and yellow 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.

Traditional Elegance Meets Modern Innovation
With elegant lines and exquisite detail, conservatories/sunrooms are the ultimate extension between your living space and the environment, providing a functional sanctuary with unparalleled beauty. These structures allow you to comfortably enjoy the changing seasons without the harsh elements.

**RESIDENCE**

**NORTH SALEM, NY**

Straight Eave Double Pitch Sunroom with Awning Windows & Swing Doors.

**PERFECT BLEND OF FUNCTION AND EXQUISITE DETAIL**

**FAMILY SPACES**

Conservatories/sunrooms can provide useful space for growing families. Children’s toys can quickly take over a home and a conservatory can easily be transformed into a playroom where children can safely play. Tables and chairs can be used for homework and craft projects. Since conservatories are such versatile structures, as your family matures, the space can be transformed into a hangout for teenagers by adding lounge seating and regular sized tables.

**ENTERTAINING**

During the holiday season, the conservatory can serve as a gathering place for family and coworkers to socialize. A conservatory allows owners to take pleasure in spring flowers, autumn leaves, and winter snow in a social setting. Parties can be hosted and will create a unique environment where you are able to view the outdoors. Structures can also be purpose specific and make great studios for artists, providing inspiration from nature; the possibilities are virtually limitless.

**KITCHEN**

A kitchen structure is typically an extension of an existing room that provides flexibility and additional space for entertaining purposes. During most gatherings, the kitchen inevitably becomes the gathering point; the conservatory can act as an "overflow" space. Conservatories also provide additional natural lighting which will help to heat the home in the winter months. Think about adding additional ventilation to a kitchen conservatory to reduce food odors and the build up of steam while cooking.

**OFFICE**

A conservatory or sunroom can provide unique office space and can be utilized for both residential and commercial applications. Home offices are often afterthoughts and end up being located in a renovated closet or basement, but by creating an inviting office space at home, business transactions can be more organized and will seem more professional when vendors and customers visit. Regardless, the structure will provide the added benefit of the natural views and daylight.
Configurations

Straight Eave Double Pitch

A straight eave double pitch configuration is the prototypical conservatory shape for free-standing structures. It provides a uniform space that is tallest along the center axis where the ridge runs directly overhead.

GABLE ENDS

The pitch of the roof can be set at virtually any requested degree. This configuration features the traditional gable roof. The structure will have either one or two gable ends depending upon its location in proximity to your home.

MULTIPLE DOUBLE PITCHES

Irregular shapes can be created by combining various pitches. When attached to another structure, a gable end will typically serve as the attachment point.

ADD AESTHETIC VALUE

Decorative conservatories are frequently designed to be the focal point of architecture. The use of decorative elements allows the structures to exhibit a classic English style, which can be designed to seamlessly match existing historic structures.

HEALTH BENEFITS

Exposure to natural sunlight has been shown to positively affect the mood and mental state of occupants. Sunlight also contains Vitamin D, which can be absorbed more easily when in a glazed structure due to the increased exposure to sunlight.
Curved Eave Double Pitch

In a curved eave double pitch configuration, the conservatory’s eaves — the point where the walls and roof meet — are curved as compared to straight. This style is often selected for the decorative elements which adorn the conservatory. When no decorative elements are selected, it creates a modern appearance. The curve can begin high on the rafter to allow for more headroom and furnishings or lower for a more traditional look.

OGEE CONFIGURATIONS

Ogee configurations are named in reference to the inverted curved eaves that come to a peak at the roof. This shape is sometimes referred to as an “horseshoe curve” or “s-curve.”

Hip End

The hip end roof is an attractive option and is typically selected for its aesthetic qualities. Each section of the roof slopes downward at a gentle pitch, eliminating gable ends. A hip end can easily be adapted to numerous design styles. In high wind areas, this style is preferred because the wind is capable of shearing off roofs. The roof area will be smaller in scale than that of a double pitch, which can correlate to lower heating and cooling costs. Hip end conservatories can be attached to a building or be constructed as a freestanding unit.
Conservatory nose configurations are also commonly referred to as “bull nose” or “Victorian style” conservatories. This design consists of a double pitch section that tapers into a “nose.” The conservatory can also be designed as a lean-to where there is no double pitch section and the nose peak will directly attach to a house. Typically, the “nose” projects half the width of the structure and is comprised of six to eight sections that form the radial shape. This is another style which is easily equipped with accessories to achieve a traditional aesthetic.

Conservatory Nose

Solar Innovations® specializes in custom conservatory configurations. If you have a uniquely shaped project in mind, you have come to the right place. No project is too small or too large; multiple turns, additional walls, and unique accessory operations are welcomed.

The structural accessories your conservatory requires may need to be customized and Solar Innovations is capable of providing just that. Many manufacturers set a limit on the placement or number of windows allowed in a conservatory; Solar Innovations® allows you the freedom to incorporate as many windows as you see fit. The same is true for doors, ridge vents, and eave sashes.

However, if you wish to customize your conservatory, call Solar Innovations® directly. Our estimators will supply a budget for your selections and your sales representative will work with you to finalize the design no matter how many revisions are necessary. Our goal is to provide you with the best functioning conservatory imaginable for your investment.

Solar’s glazed structures rafters used in conservatories and sunrooms are available in two widths. Multiple length bars may be combined within one project to create a dynamic appearance while maintaining matching sightlines.

Custom Designs

Structure Details

At Solar Innovations®, we are always happy to work with our customers, vendors, and dealers to achieve outstanding results. Some details related to our glass structures are shown below. For further information or to download standard DWG files, visit our website at solarinnovations.com/information/downloads. Proprietary details are only available upon request.
Solar Innovations® offers several elegantly designed products in custom wood systems. Thermal efficiency tends to be higher with a wooden structure as it allows for lower U-values. The lowered U-value allows the room to maintain an even temperature throughout the year. When implemented correctly, a wooden interior can provide a structure with a traditional feel. A wood conservatory can be highly decorative and include traditional elements reminiscent of classic conservatories. Moldings and trims featured in the structure can be manufactured to mimic existing architectural elements within your home and the same is true for wood interior panels which can be customized to fit virtually any design.

We do not recommend using wood in structures that have high moisture, such as greenhouses and pool enclosures, due to warping and aging of the wood.

Please Note: Depending upon color selection, additional charges and increased lead times may apply. Color illustrations are shown as accurate as standard photography and printing processes allow. Final finish selections 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 Solar Innovations® for details.

**FINISH OPTIONS**

- White Oak
- Southern Yellow Pine
- Red Oak
- Spanish Cedar
- Mahogany
- Douglas Fir
- Northern White Pine
- Birch
- White Maple

**RESIDENCE**

- SHAVERTOWN, PA
  - Yellow Pine Straight Eave Lean-To Conservatory with Skylight

- MAMARONECK, NY
  - Mahogany Straight Eave Lean-To Sunroom

- RICHMOND, VT
  - Southern Yellow Pine Straight Eave Double Pitch Conservatory

- CHICAGO, IL
  - Mahogany Straight Eave Double Pitch Conservatory

**RESIDENCE**

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Bring Home the Timeless Beauty of Natural Wood
Considerations

Custom Tailored Living

HEATING
The best way to maximize the investment in a glass structure is to ensure it can be used year-round. Solar Innovations® offers customers both roof mounted and floor mounted heating units which can be powered by electricity, natural gas, or propane. If an alternative heating method is desired, like radiant floor heat, Solar Innovations® can provide the heating load requirement for our glass structure in your location so that the heating system can be designed properly.

COOLING
Cooling a glass structure is equally important for year round use. Solar Innovations® designed a mechanism that deploys a bolt in the head and the sill. from the exterior. Solar’s doors can also include a two point locking system for extra safety, doors feature semi-concealed hinges that cannot be removed to gain access to the building since all screws are safely hidden behind a cap. For structures also designed to be enclosed, it can be used year-round. Solar Innovations® recognizes that security is a high priority when purchasing a glass structure. With its extensive experience in design and construction, Solar Innovations® can offer numerous methods of control from simple to complex. Operable vents and windows can be motorized and controlled by thermostats to allow for daily ventilation and fresh air exchanges to prevent overheating. Complex greenhouses can be monitored for temperature, humidity, light, carbon dioxide, and many other parameters. They can also be automated for venting, heating, cooling, shading, and irrigation as well as remote. Our glass structures can be controlled by user-friendly touch pads and software that can be accessed remotely.

SECURITY
Solar recognizes that security is a high priority when purchasing a glass structure. The use of tempered glass is a structure’s main security feature—intruders cannot simply break a window with a blunt object. Structures also feature no exterior fasteners and glazing bars cannot be unscrewed to gain entry. Solar Innovations® recommends insulating the knee wall with insulation panels will aid in the retention of heat in the structure. While Solar Innovations® does not provide labor or materials for floors and foundations, we do make recommendations based on the structure’s use and type. Please consult your local building codes for more information on foundation requirements in your area.

Foundation Types

Recommendations for a Stable Base

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RESIDENCE
ATHENS, GA
Straight Eave Double Pitch Greenhouse

RESIDENCE
MAUI, HI
 Straight Eave Lean-to Sunroom

KEEPLS—sometimes referred to as “base” or “pony” walls—are commonly featured in the construction of conservatories. Incorporating a knee wall is typically more cost effective than extending glass entirely to the ground. Applying a stone or brick veneer directly to a concrete knee wall will achieve the desired aesthetic in a cost efficient method. Solar Innovations® recommends insulating the knee wall to optimize heating and cooling. Knee walls are typically between 30 and 36 inches tall. At these heights, the benches, smaller plants, and garden tools can be hidden from external view. Another practical use of a knee wall is shade—low light plants can be grown underneath the knee wall or a concrete block footing. The concrete slab can be reinforced with wire mesh and is suggested the concrete floor be at least 4 inches thick, and should be thicker around the perimeter to handle the load of the building. Footings should extend at least 6 inches above grade to form a knee wall. If a structure to a foundation or footing is crucial and achieved by embedding anchor bolts into the ground and fastened to the sill. Waterproofing can be achieved by coating the foundation in a waterproof compound or using the concrete slab with a polyethylene moisture barrier. Surrounding the foundation with insulation panels will aid in the retention of heat in the structure properly.

WOOD FOUNDATION
For conservatories under 200 square feet, a continuous concrete footing around the perimeter, or a concrete block footing. The concrete slab can be reinforced with wire mesh and is suggested the concrete floor be at least 4 inches thick, and should be thicker and floor mounted heating units which can be powered by electricity, natural gas, or propane. If an alternative heating method is desired, like radiant floor heat, Solar Innovations® can provide the heating load requirement for our glass structure in your location so that the heating system can be designed properly.

RESIDENCE
ROCKPORT, MA
Straight Eave Conservatory Skylight with Interior Conservatory Nose

RESIDENCE
WEST CHESTER, PA
Conservatory Base Conservatory

CLIMATE CONTROL
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WATERPROOFING
Waterproofing can be achieved by coating the foundation in a waterproof compound or using the concrete slab with a polyethylene moisture barrier. Surrounding the foundation with insulation panels will aid in the retention of heat in the structure properly.
After the configuration of your conservatory is selected, you should consider the fenestration and ventilation accessories required. These accessories include doors, windows, ridge vents, and eave vents. With these accessories, your greenhouse will achieve plant appropriate temperatures and circulation. Operable accessories are the components which promote circular air ventilation.

RIDGE & EAVE VENTS

The use of ridge vents and eave vents in a Solar Innovations® structure will create a functional, passive ventilation system. A ridge vent is placed at the roof's highest point so that when hot air rises and becomes trapped in the peak of the roof, the ridge vent will open via a motor or a pole operator and allow the hot air to escape. Multiple bays can be joined together and the entire roof line can open.

An eave vent operates similarly to a ridge vent, except it is placed on a wall rather than the roof. This accessory is used in place of individual windows. Bays are joined together by a motorized arm and the entire section will open.

Without these systems, hot air becomes trapped at the top of the structure. By incorporating ridge and eave vents, natural air circulation can be achieved.

Solar Innovations® ridge vents are typically manufactured to a 27 inch diagonal on the slope. They are available in various bay widths up to 48 inches with a total overall length up to 24 feet. Our eave vents are typically 27 inches high and are available in various bay widths up to 48 inches with a total overall length up to 24 feet. Eave vents will match the bay widths of the structure; however, numerous custom designs are available.

INTAKE LOUVERS

Intake louvers allow fresh air to flow into the structure while exhaust fans create a cross flow of air for adequate ventilation, minimizing hot spots and assisting in maintaining a constant temperature inside the enclosure. Our intake louvers and exhaust fans are typically used in our sunrooms. White PVC shutters are standard.

The motorized intake creates a seal against most rain, cold air, snow, and insects when closed and opens as the fan turns on to ventilate your structure. Exhaust fans can be used alone or combined with the matching intake louver to create a "cross flow" for increased air flow and circulation. The fan is placed in the upper section of the gable end of the structure so that it can remove stale hot air from the peak of the structure. For maximum efficiency, the operation of both intake vents and roof vents should be coordinated. The fans are made of white industrial grade, corrosion proof PVC with UV inhibitors, but they can be custom painted to match your enclosure for an additional cost.

LANTERNS

A lantern is located atop the roof and can span the entire length of the roof or occupy only a small section. It can feature a hip end conservatory nose or double pitch configuration. If the eave is high enough, the glass can be operable to allow for ventilation. The goal of the lantern is to add additional light into the conservatory and to add a design element.

Dormers & Lanterns

Dormers are small structures which project from a roof and typically begin at the ridge line or in the middle of the roof. The gable side of the dormer can have an operable window depending on size.

A traditional conservatory appearance can be achieved by incorporating the following:

- Pilasters can be set on either side of the gable
- Grids can be utilized on the gable with numerous "P-patterns" available
- A Palladian arch can be incorporated into the eave
- Ridge cresting can adorn the ridge of the dormer, with a finial at the peak.

Dormers are typically manufactured to a 27 inch diagonal on the slope. They are available in various bay widths up to 48 inches with a total overall length up to 24 feet. Our dormers will match the bay widths of the structure; however, numerous custom designs are available.
Door & Window Integration

Open Up the Possibilities

An entryway or vestibule acts as an air-lock and prevents cool air from infiltrating the conservatory. When you open the door of your conservatory in winter, cold air rushes in but an air-lock reduces the amount of cold air that is able to enter the conservatory. An operable door or windows can be added for ventilation purposes.

**TERRACE & FRENCH DOORS**
Terrace doors are single swing doors units, while French doors are a set of double doors. Units can be hinged left or right and swing in or out. Sizes are custom designed to suit your structure.

**FOLDING GLASS WALLS**
Folding walls, also known as accordion or bi-fold doors, allow unobstructed openings. When fully open, doors stack against each other, perpendicular to the wall. These operable walls can be either infold or outfold. Various glass tints, configurations, and screens are available as well.

**SLIDING GLASS DOORS**
Sliding doors, or patio doors as they are sometimes called, are commonly featured in conservatories. The doors slide on a track and stack behind a fixed panel, up to 10 panels deep. Sliding doors are also the most cost-effective option.

**SLIDE & STACK GLASS WALLS**
A stacking wall is a door option which allows two or three sides of a structure to open without any posts obstructing the view. Individual door panels operate on a track moving to the stack location. Stacks are generally recessed into or against walls, to create an opening.

Redefine Boundaries
Operable walls are an attractive and functional addition to a conservatory or sunroom. Our selection of folding, stacking, swing 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, the conservatory can seamlessly become part of the outdoors for entertaining.

**AWNING**
An awning window is the most common form of ventilation. The window is hinged at the top, checks out, and can be left open during rain showers. Any water that hits the glass simply runs down the glass instead of entering the conservatory.

**CASEMENT**
A casement window is a classic conservatory choice. This window hinges on the left or right, and moves like a book. Casements allow for more air circulation than awnings. Charcoal colored screens are available with most window systems.

**FIXED**
Fixed windows are non-operable, meaning they will not open. This type of window is often found in conjunction with the other types of windows in a mulled system.

**PIVOT**
Pivot windows project to the exterior and interior of a room, but require less space in one direction allowing for larger openings. Pivot windows can pivot from the left, right, or center, and can feature decorative interior and exterior grids.

**TILT TURN**
A tilt turn window has dual action. The unit opens inward, like a casement, and tilts inward at the top, like a hopper window. This window style is ideal for second floor applications, where cleaning windows from the outside presents a challenge.

**SLIDE & STACK GLASS WALLS**
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**RESIDENCE**
NEW CANAAN, CT
G2 Folding Glass Walls & G1 International Fixed Windows

**RESIDENCE**
NEW YORK, NY
Folding Glass Walls

**RESIDENCE**
KIRKWOOD, MO
Straight Eave Double Pitch Sunroom with French Doors

**RESIDENCE**
JOHNSTOWN, OH
Conservatory Nose with Awning Windows

**RESIDENCE**
NEW YORK, NY
Folding Glass Walls

**RESIDENCE**
JOHNSTOWN, Oh
Conservatory Nose with Awning Windows
Skylights

**RESIDENCE**

**RESIDENCE**

STRATFORD, CT

Straight Eave Lean-to Retractable Skylight

RESIDENCE

ROCKPORT, MA

Curved Eave Conservatory Skylight with Irregular Conservatory Nose

RESIDENCE

NARBETH, PA

Straight Eave Double Pitch Skylight with Irregular Conservatory Nose

RESIDENCE

STRAWBERRY, CT

Straight Eave Lean to Retractable Skylight

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Skylights or glass roofs are the ideal choice when updating an existing 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.

**FIXED SKYLIGHTS**

Fixed, or non-operable, skylights are comprised of panels that do not move or open. Solar can design and manufacture skylights in many variations that create a conservatory-like aesthetic. These configurations include double pitch, hip end, dome, single sloped, bull nose, and other custom configurations, that create a. Though fixed skylights themselves do not open, they can include ridge vents that provide air circulation and climate control.

**OPERABLE SKYLIGHTS**

Operable skylights have the unique ability to open up the conservatory or sunroom to the outdoors. The most popular operable skylight for structures is the retractable skylight. Retractable skylights provide clear, unobstructed views and increased airflow for any glass or conservatory structure.

**ATRIUM**

An atrium conservatory blends a glass roof and large windows with conventional construction walls. Various materials can be utilized to complement the framing, such as masonry, stucco, or siding.

Solar manufactures the glass roof (or skylight), which can incorporate windows and operable ridge vents to control the interior climate. Operable window choices include awning, casement, hoper, pivot, and tilt turn. Window grids further enhance this conservatory’s classic aesthetic, while finials and ridge cresting create decorative accents on these conservatories. If desired, traditional walls can be designed or altered to include folding glass walls.

**DECORATIVE ACCESSORIES**

Finials and ridge cresting may be included in the skylight for a more decorative appearance. The conservatory skylights can also incorporate a lantern into their design, creating a classic feel and drawing attention to the addition. If the lantern is large enough, operable windows can be added to assist in ventilation.

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**Boosted Sun Exposure**

Skylights or glass roofs are the ideal choice when updating an existing 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.
Businesses often find commercial structures useful, as their primary function is the generation of revenue. The purpose of the conservatory or sunroom may vary between business outlets. Common applications include display areas, dining, event facilities, and workshop spaces. Other common applications include boutiques and florists, which use the conservatory for retail display space.

**Combine Indoor Comfort with Breathtaking Views**

**RESTAURANTS**
Solar Innovations® conservatories/sunrooms will allow your restaurant to be a unique space when compared to the competition. Our products will help to provide your business with a beautiful space with an unparalleled view of the outdoors. Restaurants often use these structures for a dining room, where patrons can enjoy a view while enjoying their meal.

**OFFICE SPACES**
A conservatory can provide unique office space for many businesses. A business can add a conservatory for their employees and can house employees’ desks or even use it as a conference space. Regardless, the conservatory will provide the added benefit of natural views and additional daylight proven to increase employee morale.

**RETIREMENT HOMES & MEDICAL FACILITIES**
Personal care facilities—such as retirement homes and hospitals—utilize conservatories as an area for residents and patients to complete therapy. Group sessions and recreational activities can easily be performed in the conservatory. Patients in a hospital can recuperate and enjoy the outdoors without raising the onset of a new illness from extreme weather conditions.

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**RARE EGG**
SYOSSET, NY
Straight Eave Double Pitch Conservatory

**LEE’S DINER**
YORK, PA
Straight Eave Lean-to Sunroom

**DTM REMODELING**
ST. PAUL, MN
Straight Eave Double Pitch Sunroom

**TENACRE FOUNDATION**
PRINCETON, NJ
Straight Eave Double Pitch Sunroom
### Decorative Elements

#### APPLIQUÉS
Decorative appliqués are elements that can add character to structures. Each cast aluminium appliqué features one of two main motifs: the rosette or the fleur-de-lis.

#### BASE PANELS
Decorative base panels follow the Elizabethan form of raised grid design. We offer two standard models: a raised panel and a smooth panel.

#### CORNER COLUMNS
Decorative and structural corner columns are one of the most classic forms of architecture. Solar Innovations® can create custom designed columns to fit your structure and meet project needs.

#### GRIDs
Decorative grids enhance the look of any structure and are available in five standard types: Low Profile, Ogee, Colonial, Traditional, and Large Traditional. We also offer two types of grids: interior muntins and exterior grids combined with simulated divided lites (SDLs).

#### RIDGE CRESTING
Ridge cresting is used to enhance the ridge line of a greenhouse, especially in classic English designs. Several styles of ridge cresting are available.

#### TRIMS
Solar Innovations® offers extruded decorative trims in durable aluminium, which will not warp, rot, rust, or require finish maintenance like traditional wooden trim.

#### SAW SPANDRELS
Saw spandrels—or decorative corners—can be considered one of the oldest forms of decorative architecture. While saw spandrels are primarily decorative, they can also be used for shelf supports.
PINOLEUM BLINDS
Pinoleum blinds are traditionally used in conservatories, sunrooms, and skylights. The blinds are comprised of individual wooden reeds that are woven together to diffuse light. This shade system is available in manual or motorized units, operates in a Roman fold style, and should not be used in humid environments.

GRAVITY FED SHADES
Gravity fed shades are traditionally used on sloped roofs, but can also be used in vertical wall applications. These shades are individually sized to fit between the rafters of an interior glass roof and are available in numerous materials and colors. This system is available in motorized or manual pull cord options, operates in a Roman fold style, and can be used in humid environments like greenhouses.

WIDE SPAN SHADES
Wide span shades extend from eave to eave or follow the slope of a glass structure. Available in multiple fabric, texture, and color options, these shades trap heat above them, allowing the living space of a structure to remain cooler. These Roman fold style shades are fully operable and are available in either manual or motorized options.

PLEATED SHADES
Pleated shades can be used in the roof and vertical walls of a glass structure. The pleats provide a visual pattern, soften daylight, and are generally mounted at the eave, and pull upwards toward the ridge (except for angled corners which operate inversely). Manual pulls or motorized options are available and pleated shades are suitable for extremely humid environments.

SOLAR R BLINDS
Solar R blinds are typically used to increase energy efficiency and control temperature. These smooth shades have an aluminum backing which reflects solar rays to limit solar heat gain. They are generally mounted at the eave and pull upwards toward the ridge (except for angled corners which operate inversely). Solar R shades are available in either manual or motorized options, and when operated, the shades move on a roller into a cassette via the pulley system. This system is not recommended for use in humid environments.

SCREENS
FOLDING SCREENS
Folding screens are hinged and fold accordion-style, mimicking the operation of folding glass walls. Operable swing door panels can be integrated into the units. Folding screens can be used to create an outdoor screen room to enjoy nature without bothersome insects.

SLIDING SCREENS
Sliding screens are generally used on large openings, most commonly on the exterior of sliding glass doors. The panels of this system can be pocketed into a wall cavity, be center split, or stack to the left or right when fully open.

SCREEN SWING DOORS
Screen doors are available on both terrace and French doors. The screen door is constructed from an aluminum frame that mimics the sightlines of our glazed swing doors. Handle selections can also be matched to the glazed door.

FIXED SCREENS
Solar Innovations® has a large selection of screens for all doors and windows. Fixed screens are used on casement, awning, hopper, tilt turn, and sliding glass windows. Fixed screens can be removed for cleaning.

S SERIES RETRACTABLE SCREENS
S Series screens are vertically retractable screens that provide the ability to enjoy the outdoors while being protected from pests. S Series screens feature a specialty zipper system which guides the fabric within the track and prevents insects from entering. The zipper system can also prevent sunlight from entering the room if black out fabric is selected.

B SERIES RETRACTABLE SCREENS
B Series screens are suited for large openings when a pleated screen option is preferred. These retractable screens can meet at a 90° corner to enclose a space with only one visible vertical division. This screen can be paired with folding glass walls, sliding glass doors, lift slide doors, French doors, screen rooms, and more.

Shades & Screens
L Series Perfect Fit Shades
Pinoleum Shades
Folding Screens
Folding Screens
Sliding Screens
Sliding Screens
Fixed Screens
S Series Retractable Screens
B Series Retractable Screens
Screen Swing Doors
The use of conservatories dates back to the 17th century. Since their inception, countless conservatories have been built in all sizes and configurations around the globe. Antique conservatories can possess beautiful architecture, but require constant maintenance. Instead of removing these conservatories and destroying a piece of history, Solar Innovations® can restore these units to their original glory. Whether your structure requires a complete replacement or you are simply looking to restore certain aspects of a structure, Solar can provide the necessary services.

Thermal Break

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 comfortable 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, 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 are also available and should be used for interior applications or where there is no exposure to the elements.

Certified Products

Our company currently offers 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**

*Also non-impact certified

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

Building Regulations

Historic districts often have specific requirements to ensure any building alterations adhere to the community’s established aesthetic guidelines. Restorations, whether new conservatories or restoration projects, will be subject to such regulations. Solar Innovations® manufactures historically styled conservatories that blend seamlessly with period-specific homes. Historic elements such as profiled rafters, cladding options, window grids, finials, and ridge crestings are available.

Glazing Options

Many older structures are glazed with single-pane glass, which lacks insulation and the ability to deflect solar heat gain. Monolithic glass can allow the structure to become uncomfortable during extreme temperature fluctuations. As well, Solar Innovations® can replace broken, missing, or otherwise existing glass in a conservatory with high-performance, insulated glazing to increase user comfort levels. Broken or aging capping and/or moldings can be updated with replacement aluminum parts that can be designed to look like their historic counterparts.

DOOR & WINDOW INTEGRATION

Solar can also provide classically styled doors and windows that will seamlessly match the structure and retain its overall aesthetics. The company makes every effort to provide a structure with historic qualities that will not be compromised by its restoration.

Modern Additions

Although restorations are meant to maintain a conservatory’s historic appeal, the addition of modern amenities—such as heating and cooling units, thermally-broken doors and windows, and insulated glazing—can provide the structure with added functionality.

Solar Innovations® can replace broken, missing, or even existing glass in a conservatory with high-performance, insulated glass to increase user comfort levels. Broken or aging capping and/or moldings can be updated with replacement aluminum parts that can be designed to look like their historic counterparts.

Solar is 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.

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**Hurricane Impact Tested**

Solar Innovations® conservatories are designed and engineered to meet all applicable performance standards, conditions, and ratings established by the Florida Building Code, the Florida Solar Handbook, and the NFRC.

**Performance**

**Restoration & Replacement**

The use of conservatories dates back to the 17th century. Since their inception, countless conservatories have been built in all sizes and configurations around the globe. Antique conservatories can possess beautiful architecture, but require constant maintenance. Instead of removing these conservatories and destroying a piece of history, Solar Innovations® can restore these units to their original glory. Whether your structure requires a complete replacement or you are simply looking to restore certain aspects of a structure, Solar can provide the necessary services.
**Our Process**

**Contact Us**
We have three different convenient ways to work with Solar Innovations®. We deal directly with homeowners and architects as well, so if you aren’t quite sure who or which company to contact to get bids on our products, please feel free to call us directly at 800-618-0669.

**Solar’s Dealer Network**
Who: Residential and light commercial customers.
Benefits: Solar’s extensive network of dealers throughout the United States have experience working and dealing with Solar’s products. Dealers are frequently able to visit the site and work one-on-one with the customer, aiding in design, local permits, and installation.

**Planning & Quoteing**
There are various stages of planning due to the large variety of products, configurations, and options Solar Innovations® provides. Our in-house design consultants can help coach you through the design process and educate you on the differences between options. Whether you’re a dealer, architect, business, or homeowner, we work hard to give the most competitive pricing when quoting the job.

**Place an Order**
Our ordering process is streamlined and efficient, giving customers all the requirements for their project, shop drawings, lead times, and shipment dates. Once an order is placed we still work with you, assigning a dedicated project manager to help you along the process.

**Installation**
Whether a product is purchased factory-direct or through our dealer network, we can provide installation and service work for all of our products within a six-hour radius of Pine Grove, PA. Whether a product is purchased factory-direct or through our dealer network, Solar can do it. Our expertly trained team is registered to complete installation and service work in over 26 states. When utilizing our installation services, an experienced team will be scheduled to install the project upon completion and preparation of the shipment. Our installation team is trained in the correct protocols to ensure safe, efficient, and accurate system installation. When choosing a direct installation, customers can rest assured knowing their project is being installed by a qualified installation crew that knows the products.

Solar’s nationwide dealer network can also act as the installer. However, when a customer requests to have his or her own contractor complete the installation, Solar recommends choosing a contractor who is familiar with glazed products and who will thoroughly review the provided installation guides prior to project commencement. We can provide a list of nearby installation teams for any project outside of Solar’s installation radius.

**Installation & Services**

**Services**
Our team has the technical skill and experience to evaluate your situation and determine the most effective options for repair, service, or replacement of your skylight. All drawings and information are permanently saved for each of our projects, so a site visit will not always be required.

If not properly maintained, an aging structure can experience problems with the frame and glass. We can address issues with broken motors to ensure ventilation and other accessories are in proper working order. If windows experience issues with broken hardware and screens, Solar offers various solutions from service and repair to full replacement.

Since 1998, Solar Innovations® has been installing skylights and working in every condition imaginable. We can provide installation and service work for all of our products within a six-hour radius of Pine Grove, PA. Whether a product is purchased factory-direct or through our dealer network, Solar can do it. Our expertly trained team is registered to complete installation and service work in over 26 states. When utilizing our installation services, an experienced team will be scheduled to install the project upon completion and preparation of the shipment. Our installation team is trained in the correct protocols to ensure safe, efficient, and accurate system installation. When choosing a direct installation, customers can rest assured knowing their project is being installed by a qualified installation crew that knows the products.
LOW-E GLASS
Low-E glass includes microscopically thin transparent layers on the glass surfaces that reflect heat back to its source, keeping inside heat in during the winter. We offer several variations of tint intensity for the warmth in during the winter. We offer that reflect heat back to its source, keeping transparent layers on the glass surfaces.

LOW-E GLASS
0.18 SOLAR HEAT GAIN COEFFICIENT.
0.27 SOLAR HEAT GAIN COEFFICIENT
65% VISIBLE LIGHT TRANSMITTANCE for both plants and people.

DYNAMIC GLASS
Dynamic glass can change automatically at specific temperature and lighting conditions or on demand, allowing for heat, light, and glare control at any time of day.

Electrochromic: This highly energy-efficient glass switches between clear and tinted states on demand. In its clear state, it transmits more solar heat than typical low-E glass, reducing the need for heating.

Thermochromic: Thermochromic glazing changes gradually and dynamically when heated by direct sunlight. The glass undergoes changes in reaction to ambient temperature and sunlight, managing a building’s changing needs for passive solar heat gain, solar control, and natural daylight transmittance throughout the day.

DECORATIVE GLAZING
Decorative glazing is a broad category consisting of art glass and other unique glazing options.

Art Glass: Art glass refers to any special order glass, including hand-blown, decorative glasses on glass, and colorfully patterned glass.

Satin Etch: Satin etching adds a 3-dimensional texture that can be felt when running a hand over the glass.

Leaded Glass: Antiquing window gridwork was done with leaded grids; we can recreate this historical look in a variety of configurations.

EnsoGlass: EnsoGlass is a composite of natural and man-made materials that can be used in a variety of applications. The material is available in a variety of colors and thicknesses.

POLYCARBONATE
Poly carbonate is a popular alternative to glass. It is lightweight, sustainable, incredibly strong, easily transported, and virtually indestructible. It is also able to break the polycarbonate, making it an excellent choice for high traffic areas and high wind areas. Testing is complete for Florida Impact ratings. Polycarbonate is available in several thicknesses and colors.

Faux Wood Finishes
DS 716 Textured
Acacia 1001
DS 402 Smooth

Wood Veneering
Douglas Fir 1501
Red Oak Spanish Cedar Western

White Pine

Faux Wood Finishes
DS 733 Textured
Acacia 1001
DS 403 Smooth

Wood Veneering
Douglas Fir 1501
Red Oak Spanish Cedar Western

White Pine

Pine

Wood Veneering
Douglas Fir 1501
Red Oak Spanish Cedar Western

White Pine

Faux Wood Finishes
DS 706 Textured
Teak 2601

Wood Veneering
Douglas Fir 1501
Red Oak Spanish Cedar Western

White Pine

Pine

Wood Veneering
Douglas Fir 1501
Red Oak Spanish Cedar Western

White Pine

Pine

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