SHADE OPTIONS

Creating a Perfectly Controlled Environment

SOLAR INNOVATIONS®
ARCHITECTURAL GLAZING SYSTEMS

ABOUT US

DRIVE TO SUCCEED
At 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 completing the highest quality projects. We enjoy tackling some of the most complex projects that others in the industry will not touch, simply because innovation not only creates long lasting partnerships with our customers, but it also facilitates our ability to make products better than others in the industry.

Solar has been making high quality systems since 1998. We began with an idea that we could not only create better products than the market was offering at the time, but could also introduce new designs that were not even a concept in our customers' or competitors' minds. Our team was small in the beginning, but over time as we developed a talented pool of people with our same principles, we began to build a company that today conquers projects of all sizes and types including commercial, residential, resort, institutional, hospitality, and multi-family. We now reside on a 36+ acre corporate campus where craftsmen, engineers, and designers are dedicated to becoming the best Architectural Glazing company in the industry today.

VERTICALLY INTEGRATED
Engineering, product testing, and product design all take place within our 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, quality, and lead times. Superior technical support can also be offered for our products because it is provided directly from the individual that created or assembled the product.

CUSTOM DESIGNS
Ingrained in our company's DNA is to provide "six-star" customer service. This mentality has been the catalyst for each product line offered by Solar Innovations® and continues to drive us to become the premier door and window, skylight, greenhouse, and conservatory provider in North America. Some of Solar's greatest innovations have been developed from unique customer requests that others could
not fulfill.

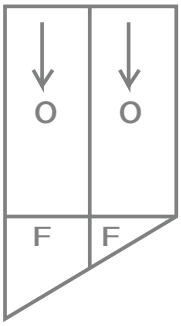
MADE IN THE U.S.A.
All of our products are designed and manufactured in the United States at our modern facility in Pine Grove, PA. This allows us more flexibility to provide shorter lead times with better quality and service. In addition, we purchase over 95 percent of our materials from companies right here in the United States.

GRAVITY FED

Gravity fed shades, also known as Roman fold shades, are typically used on sloped roofs, but can also be utilized in vertical wall applications. These shades are individually sized to fit between the rafters of an interior glass roof and are operated with a motor or manual pull cord in a Roman fold style. Numerous materials and colors are available. Wide span–covering two to four bays– may be available depending on fabric, layout, and design. Gravity fed shades are operable in rectangular sections and fixed in angled corners. They are also mounted at the ridge, and roll down to the eave. Gravity fed shades can be used in moist environments.

CONFIGURATIONS

Motor Location



Valley

O = Operable F = Fixed

Fabric Options*

Tempa

Interior Exterior
White

OmniaScreen

White

Beige

Gray

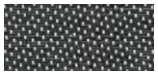
Charcoal

Bronze

Dark Gray

Sheerweave | 2701, 2703, 2705, 2710

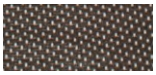
Oyster



Oyster/Charcoal

Oyster/Beige

Oyster/Pewter



Oyster/Chestnut

Sunshadow Net 3000

White (10%)

White (5%)

White (1%)

Beige (1%)

Sheerweave 3000

Custard Cream

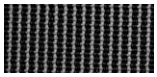
Pearl White

Pale Grey

Mushroom Sand

Sand Dollar

Honey Sage



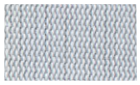
Ninja Grey

Espresso

Chocolate

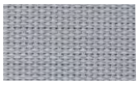
Silverscreen

White



Light Gray

Beige



Misty Gray

Dark Beige

Black

Bronze

Dark Gray

Chocolate Brown

Black

*More fabric options listed on page 13

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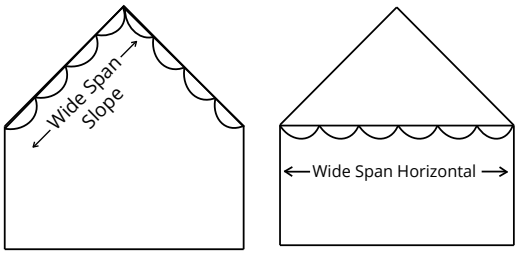
WIDE SPAN

Wide span shades extend from eave to eave or follow the slope of a glass structure. The blinds are designed in a Roman fold style with various fabric, color, and texture options. When extended, the shades trap heat above them, allowing the living space to remain cooler. On cool days, the shades can be retracted to increase solar heat gain.

These Roman fold style blinds are fully operable. For most materials, the suggested maximum panel size is 9 feet wide and 20 feet long. Wide span shades are available in both manual and motorized operation options.

CONFIGURATIONS



Sloped | Eave Line

Fabric Options*

Tempa

Interior | Exterior

White

Suncreen

Silver Gray | Bronze | Charcoal

Sunbrella*

Natural | Oyster | Parchment | Linen Tweed | Tresco Birch | Aspen | Sea | Turquoise | Charcoal Grey | Charcoal Tweed | Black

Sheerweave | 2701, 2703, 2705, 2710

Oyster | Oyster/Charcoal | Oyster/Beige | Oyster/Pewter | Oyster/Chestnut

Sunshadow Net 3000

White (10%) | White (5%) | White (1%) | Beige (1%)

Sheerweave 3000

Custard Cream | Pearl White | Pale Grey | Mushroom Sand | Sand Dollar | Honey Sage | Ninja Grey | Espresso | Chocolate

Silverscreen

White | Light Gray | Beige | Misty Gray | Dark Beige | Black | Bronze | Dark Gray | Chocolate Brown | Black

*More fabric options listed on page 13

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MANUAL ROLLER

Manual roller shades are designed to be pulled by hand against the eave line. When pulled taut, the shade will click and hold in place. This tension system is a cheaper shade option and extremely easy to operate in any application.

Fabric Options*

Singular Blackout

Linen | Ivory | Camel | Sand | Mushroom | Chestnut | Chocolate | Light Grey | White | Dark Grey | Black

Sheerweave | 2701, 2703, 2705, 2710

Oyster | Oyster/Charcoal | Oyster/Beige | Oyster/Pewter | Oyster/Chestnut

Sunshadow Net 3000

White (10%) | White (5%) | White (1%) | Beige (1%)

Sheerweave 3000

Custard Cream | Pearl White | Pale Grey | Mushroom Sand | Sand Dollar | Honey Sage | Ninja Grey | Espresso | Chocolate

Silverscreen

White | Light Gray | Beige | Misty Gray | Dark Beige | Black | Bronze | Dark Gray | Chocolate Brown | Black

*More fabric options listed on page 13

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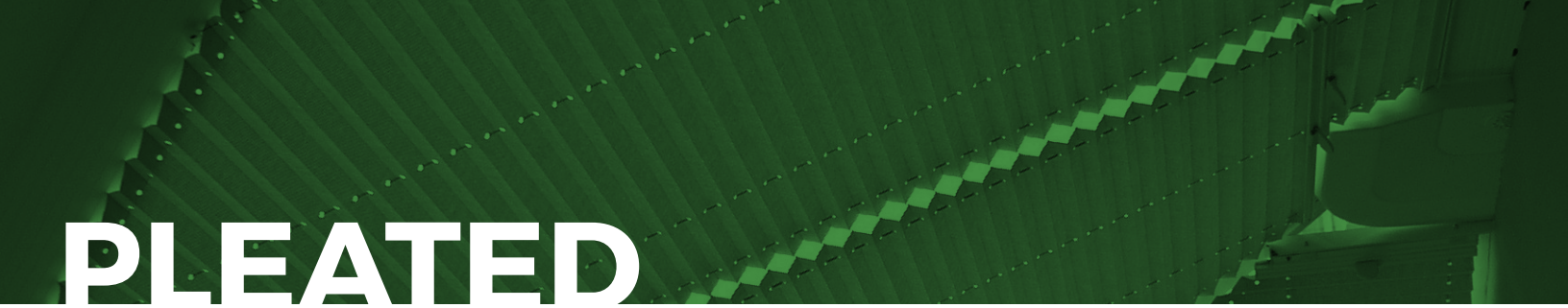


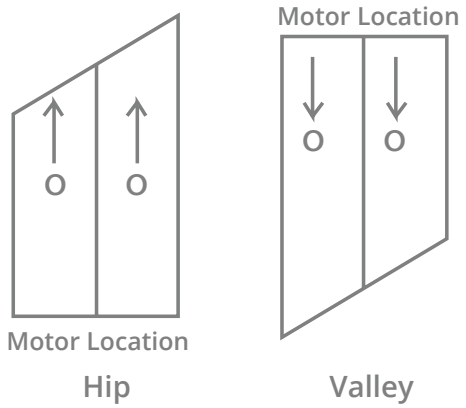
PLEATED

Pleated shades can be used in the roof and vertical walls of a glass structure. The pleats provide a visual pattern and soften daylight for interior spaces. These shades can be operated with manual pulls or motorized options, and each shade is operated independently.

These pleated blinds are fully operable, including angled corners. They are generally mounted at the eave and pull upwards toward the ridge, except for angled corners where the shades will operate inversely.

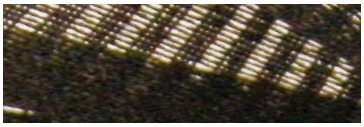
Fabric selections are dependent upon interior environment. Pleated shades are an excellent option for structures with long slopes, and are suitable for extremely humid environments.

CONFIGURATIONS

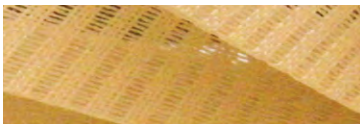


O = Operable

Fabric Options



Black



Neutral

Cream

White

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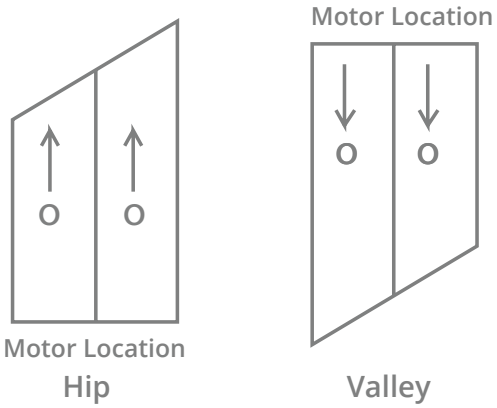
PINOLEUM

Pinoleum blinds are traditionally used with conservatories, sunrooms, and skylights. The blinds are comprised of individual wooden reeds that are woven together to diffuse light. The shade system lets light in while still reducing heat and glare.

Pinoleum blinds are available as manual or motorized units, which operate in a Roman fold style. The fully operable units can accommodate most angled corners. They are generally mounted at the eave and move upwards toward the ridge, but this may vary, depending upon roof configuration.

Pinoleum blinds should not be used in humid environments, like pool enclosures or greenhouses, due to the potential of water damage.

CONFIGURATIONS



O = Operable

Fabric Options

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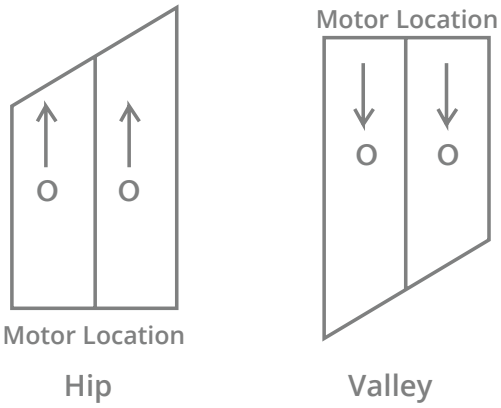
SOLAR R

Solar R blinds are typically used to increase energy efficiency and control temperature inside a space. The smooth shades have an aluminum backing which reflects solar rays away from the structure to limit solar heat gain. When operated, the shades move on a roller into a cassette via the pulley system. Motorized options are also available. Solar R blinds are suitable for sloped and vertical applications.

In most cases, roller style blinds are fully operable, including angled corners. They are generally mounted at the eave and pull upwards toward the ridge, except for angled corners near the eave line where the shades will operate inversely. Solar R blinds are not recommended for use in humid environments, like pool enclosures or greenhouses. Custom cassette colors are available.

CONFIGURATIONS



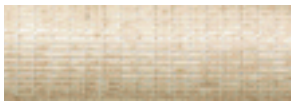
O = Operable

Fabric Options

Powder Blue

Ice

Cream



Oatmeal

Pinoleum

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L SERIES

Perfect Fit®

The unique Perfect Fit® blind fits neatly onto the window and enhances your privacy because there are no gaps down the side of the blind. Another benefit is that these blinds are safer for childeren and pets, featuring no loose cords or loops.

The blinds are available in three different styles: roller, pleated, and cellular. Perfect Fit® blinds allow fresh air to enter the space without sacrificing privacy by remaining lowered when the window or door is open.

Perfect Fit® blinds do not require conventional screws to attach to the window frame, which allows them to be easily removed for cleaning. The frame fits flush against your window to help reduce heat build up in summer and retain heat in winter, in turn keeping your cooling and heating bills to a minimum. Energy efficient fabric can also be added to save up to 15 percent on energy costs.

Vision Blinds

Control light and maintain your view with vision blinds; a striking window blinds, for the modern home. Vision is an innovative window blind that features two layers of translucent and opaque horizontal striped fabric. The front layer moves independently of the back, allowing the stripes to glide between each other and create an open and closed effect, with limitless light control.

Sliding the fabric into a closed “opaque-opaque” position, allows for full privacy through solid fabric, while the “translucent-opaque” position creates a stunning, striped statement. Vision blinds not only look great, but are practical too, enabling you to soften excess daylight and reduce the glare entering your room. An easy to use, single control is used to slide the opaque and translucent woven stripes past each other. A vision blind will also roll up fully into the attractive cassette head rail to reveal an uninterrupted view to the outside.

Luxury Rolling Blinds

Roller blinds are simple in design, stylish, and easy to operate. The blind can be rolled up or down to achieve the required level of shading you desire. Solar’s roller blind collection is an exciting mix of fabrics, specially selected to complement and coordinate with any room.

Add finishing touches such as decorative scallops, braids, pulls, poles and eyelets to personalize your choice and coordinate with your interior design scheme. Select from acorns, cylinders, barrels, and eyelets in a choice of metallic, leather, or natural finishes.

A benefit of roller blinds is that they reduce solar gain in your home during the summer months. By reducing heat build up, these shades provide a more acceptable room temperature and reduce air conditioning requirements that will save you money. Roller blinds also reduce the amount of heat lost through windows when it’s cold outside.

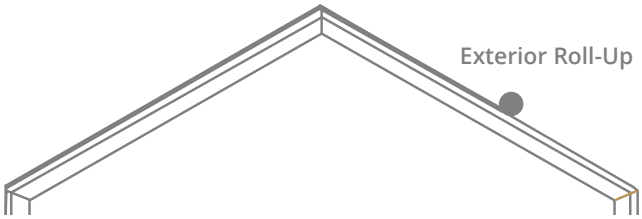
EXTERIOR ROLL-UP

Mainly utilized in greenhouses, exterior roll-up shades are manufactured from vinyl-coated fiberglass and are available in silver gray, bronze, or charcoal. Roll-up shades are not 100 percent opaque, which allows for some natural light to be maintained. This shade system can be easily rolled up to allow additional light to enter the structure when necessary.

These shades help reduce solar heat gain in glass structures by blocking out 70 percent of the sun. This typically reduces the strain put on the cooling system and can lead to a reduction in utility costs. The shades will also help maintain heat during the winter, providing a year-round reduction of energy consumption.

Exterior roll-up shades are custom manufactured to fit any structure's shape, size, or configuration.

CONFIGURATIONS



FIXED EXTERIOR

Fixed exterior shades are constructed from a 1 inch by 1 inch extrusion with a removable H channel. These shades feature exterior grade fabric, but still must be removed in the winter to avoid damage that may be caused by snow and ice.

Special care must be taken when maintaining exterior fixed shades. Glass can not be cleaned without first removing the shade system. Leaves, dirt, and other debris will also gather between the shades and the glass, so regular maintenance will be required to prevent the build up of unwanted material.

Exterior shades limit the heat that enters a glazed structure, as opposed to gathering it between the shades and glass like many internal shading options. Long spans can be accomplished when using fixed exterior shades. However, Solar Innovations® recommends a max panel size of 4 feet by 8 feet.

SUNAIR BLINDS

A solar shade is the ideal solution for keeping sunlight at bay (and to also enjoy its advantages). You can eliminate glare and control the amount of light that enters the room while still maintaining a view of the outside. Simply push a button and the optional motor lowers or retracts the shade.

A solar shade from Solar Innovations® can significantly reduce indoor temperature while also lowering cooling costs by blocking the sun before it enters your living space. Our fabrics effectively block up to 90 percent of solar heat rays when installed on the exterior of the window.

Depending on the type of fabric used, you may realize a potential reduction in air-conditioning costs by as much 25 to 40 percent. Our shades also protect your furniture, curtains, and floor coverings from UV damage.

Solar shade systems are available in 9 powder-coat frame colors, the highest option amount in the industry. Over 200 custom "RAL" frame colors are available for an additional charge.

The locking system for exterior solar shades is installed at each end of the shade bar and below the screen, these magnetic locks initially guide and then hold the screen tight in the down position. These shades keep the fabric flat and smooth, preventing the screen fabric from riding up in the wind. The screen grasp is released by gear or motor tension when retracting the shades.

Fabric Options

Ivory	Mocha	Brown	Bronze	White	Black	Grey	Taupe	Green

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GRAVITY FED, WIDE SPAN, & MANUAL ROLLER

FABRIC OPTIONS

Tempa

Interior | Exterior

White

Suncreen

Silver Gray | Bronze | Charcoal

Sunbrella*

Natural | Oyster | Parchment | Linen Tweed | Tresco Birch | Aspen | Sea | Turquoise | Charcoal Grey | Charcoal Tweed | Black

Singular Blackout

White | Linen | Ivory | Camel | Sand | Mushroom | Chestnut | Chocolate | Light Grey | Dark Grey | Black

Panta Flex

White | Linen | Ivory | Fawn | Grey | Stone | Charcoal | Black | Beige | Taupe | Sable | Ecru | Wedgewood | Navy | Mulberry | Emerald

OmniaScreen

White | Beige | Gray | Charcoal | Bronze | Dark Gray

Sheerweave | 2701, 2703, 2705, 2710

Oyster | Oyster/Charcoal | Oyster/Beige | Oyster/Pewter | Oyster/Chestnut

Sunshadow Net 3000

White (10%) | White (5%) | White (1%) | Beige (1%)

Sheerweave 3000

Custard Cream | Pearl White | Pale Grey | Mushroom Sand | Sand Dollar | Honey Sage | Ninja Grey | Espresso | Chocolate

Silverscreen

White | Light Gray | Beige | Misty Gray | Dark Beige | Black | Bronze | Dark Gray | Chocolate Brown | Black

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How to Simplify the Shade Purchasing Process

1. First, determine what the room will be used for and when it will be used. Will it be used only in the spring and summer as a sun porch, or will it be used year-round for entertaining?
2. Take rough measurements and make sketches; determine the shape and size of the space.
3. What is your desired orientation? Know the exposure that your space receives from the sun.
4. What temperature and humidity level do you need to maintain in the space?
5. Consult with a Solar Innovations® sales designer to determine the range of investment you are willing to devote to your shade system.
6. Visit Solar's facility to operate shade displays or visit our website to view videos of their operation.
7. Solar Innovations® will then review the quotation and design that was provided by our team.
8. Your Solar sales representative will help you place orders for your shade system.
9. Enjoy the comfort and beauty of your new shade system.
10. Contact Solar Innovations® for any future shade service work you may require.

SCREEN OPTIONS

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 and be either center split or stack to the left or right when fully open.

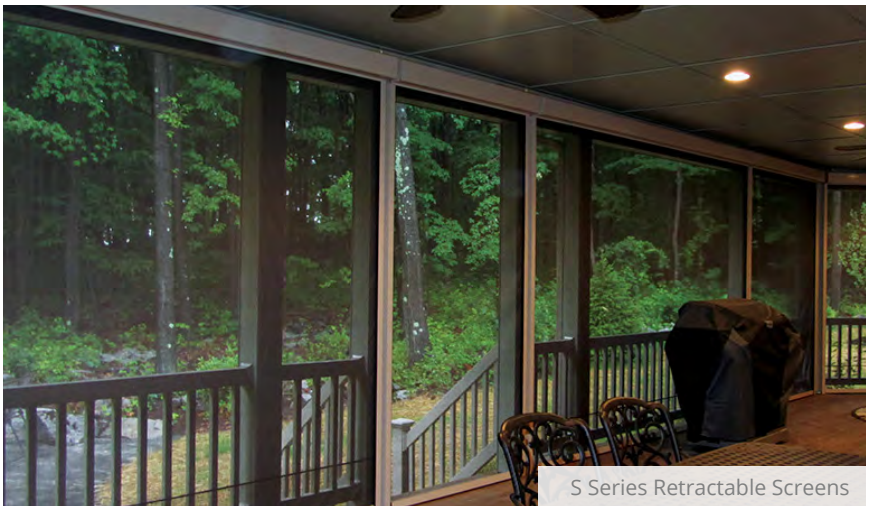
SCREEN SWING DOORS
Screen swing doors are available for both terrace and French doors. The screen swing door is constructed from an aluminum frame that mimics the sightlines of our glazed swing doors. Handle selections can also be matched to the glazed door.

FIXED SCREENS
Fixed screens are used on casement, awning, hopper, tilt turn, and sliding glass windows. Fixed screens can be removed for cleaning.

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.

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.

Folding Screens



S Series Retractable Screens

B Series Retractable Screen

COMMERCIAL & RESIDENTIAL
DOORS & WINDOWS | GLASS STRUCTURES | SKYLIGHTS

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

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

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

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

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

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