

From outer space to your space

TECHNOLOGY | COMFORT | SECURITY | ENERGY



 **Halcyon** SHADES

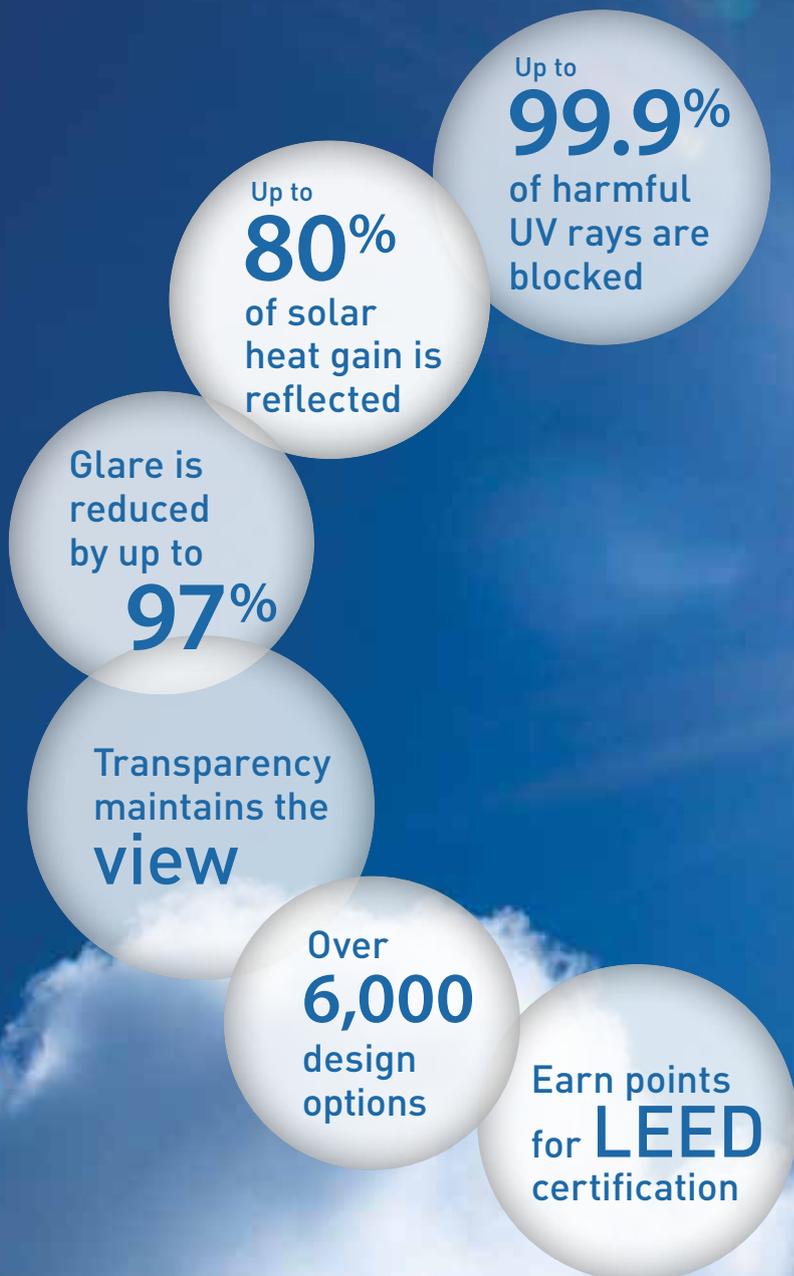


Created for NASA, delivered by Halcyon

Technology developed for NASA protected our astronauts in outer space.
Today, it can keep the sun's damaging rays out of your space.



Halcyon Shades are custom fit, professionally installed window shades that create comfort and promote health in your space, while reducing heat and cooling costs. Energy efficiency is easy with Halcyon.



Using space age sun-blocking material, the future is looking a lot brighter for your home or business with Halcyon Shades.

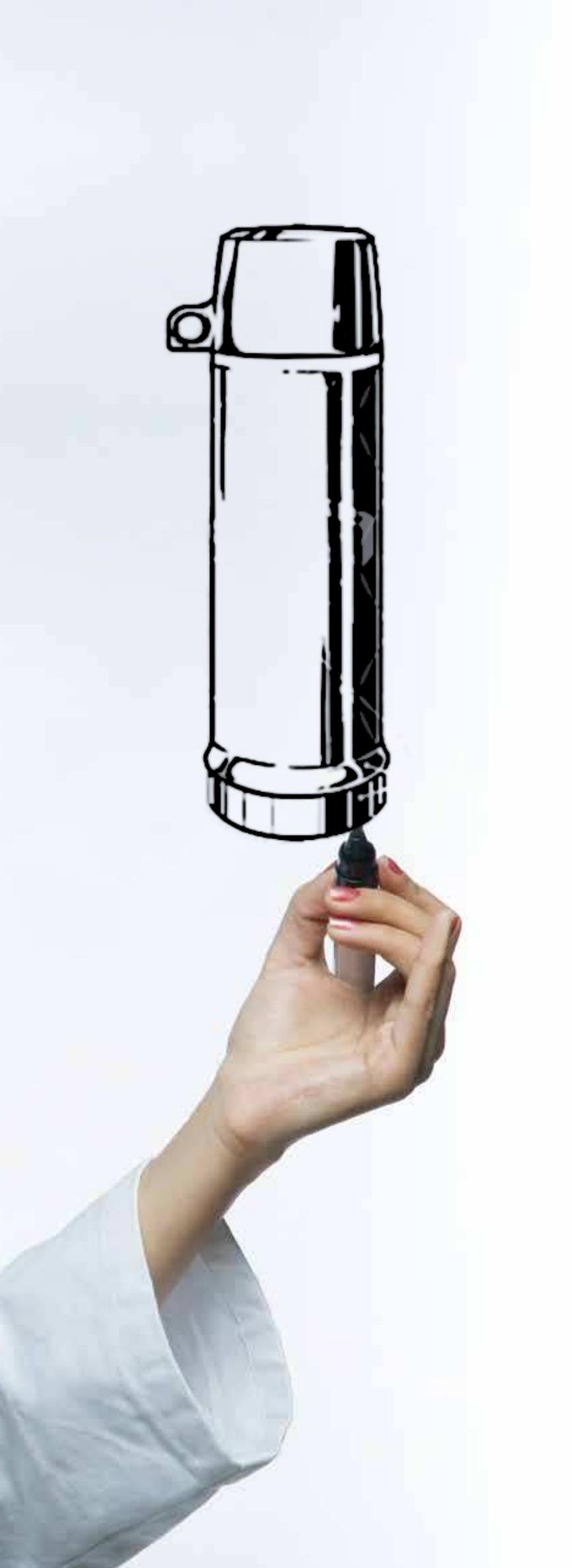


Halcyon Shades Benefits:

- reduce energy costs by reducing energy loss through windows
- pay for themselves in as few as 2 years through energy savings
- maintain health and furnishings by blocking UV rays
- protect customers and employees from eye strain by eliminating the glare
- properties provide an outside view while maintaining privacy
- earn up to 8 LEED points on certified projects

Acting much like a Thermos[®], Halcyon Shades work to retain the temperature inside a building despite the temperature outside. Energy costs drop as heat is blocked in the summer and internal heat is reflected during the winter.





The American dream is alive and well at Halcyon.

Staying ahead of the competition while investing in US manufacturing, employees and veterans.

Halcyon Shades:

- **Only green manufacturer** in St. Louis
- Utilized a product developed incorporating **space age technology**
- Originally a division of **Solutia**
- **Relocated manufacturing** from Mexico to St. Louis
- Cares about St. Louis urban renewal and the **green economy**
- Received repeated recognition for their employment practices:
 - Show Me Heroes Award** - awarded by Governor Jay Nixon in 2012 for hiring returning veterans.
 - Business of the Year** - selected by Mayor Slay in 2009 for bringing the manufacturing plant across the border and creating jobs in St. Louis.

Security

Unfortunately, in today's world, our children need to be protected at school. School access is now restricted to one entrance monitored by school security. The unique properties of Halcyon Shades prohibit outsiders from seeing into the school entrance or classrooms while allowing school personnel to visually survey all visitors before allowing entrance.

During new safety procedures, window coverings are lowered in the classrooms to prevent potential attackers from seeing if the room is occupied. Halcyon Shades can be down at all times, allowing an outside view for students, teachers and personnel while preventing outsiders from seeing inside the classroom. Halcyon Shades can help make schools a safer place while preventing a view of the inside, blocking glare, and conserving energy costs.



EDUCATION



HEALTH CARE

Sanitary and safe

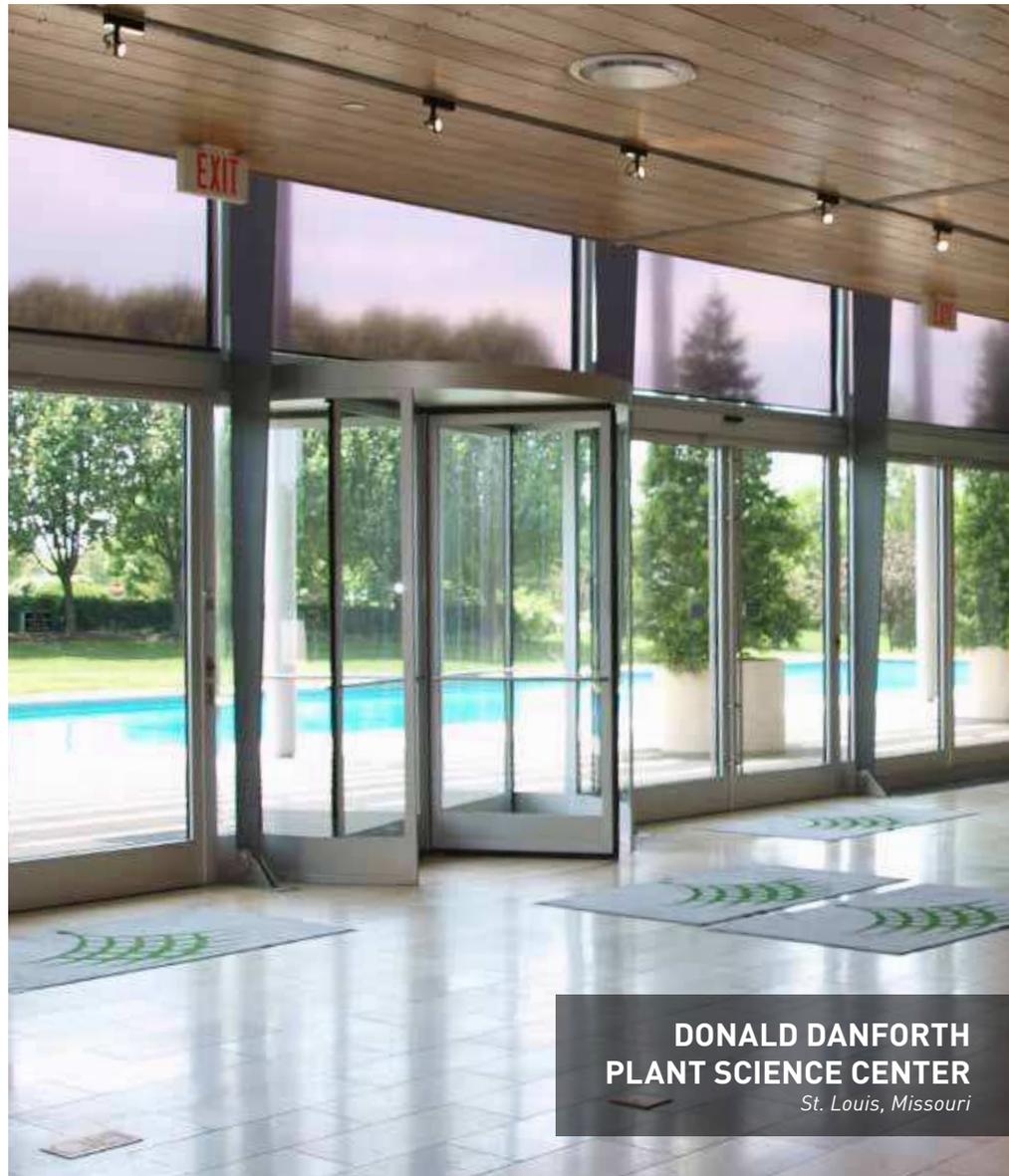
Healthcare-acquired infections are a threat to patients' health and the financial stability of all healthcare establishments. Up to 70% of surfaces in the rooms of infected patients are contaminated with potentially harmful microorganisms, according to studies reviewed by the Association for Professionals in Infection Control and Epidemiology (APIC). Staphylococcus aureus, one of the most common germs, can live up to three weeks on a dry surface, according to APIC. Other types of germs can live on dry surfaces for periods of up to four months, some surviving as a spore. Halcyon Shades can reduce this danger with the recommended cleaning method: wipe the shades with a lint-free cloth doused in isopropyl alcohol to disinfect the shade's surface for better health and a perfect view.

Save money and resources with energy efficiency, automation, and LEED points

The technology of Halcyon Shades provides an incomparable barrier between the outdoors and indoors. The metal film in the shades reflects the heat outside during the summer, lowering the load on HVAC systems. In the winter, the building's heat is reflected inside, keeping rooms warm and conserving energy.

Automation of shades eliminates human error, allowing the utmost efficiency and energy savings. Groups of up to 400 shades can be controlled from one computer. Programmed timing and light sensors ensure that shades are down at peak glare and heat times, every day.

Energy efficiency is such a focus during our product development that Halcyon Shades can earn public buildings up to eight LEED points on certified projects. LEED certification is one of the most prestigious honors a green building can receive.



**DONALD DANFORTH
PLANT SCIENCE CENTER**
St. Louis, Missouri

CORPORATE OFFICES





SCOTT AIR FORCE BASE
Illinois

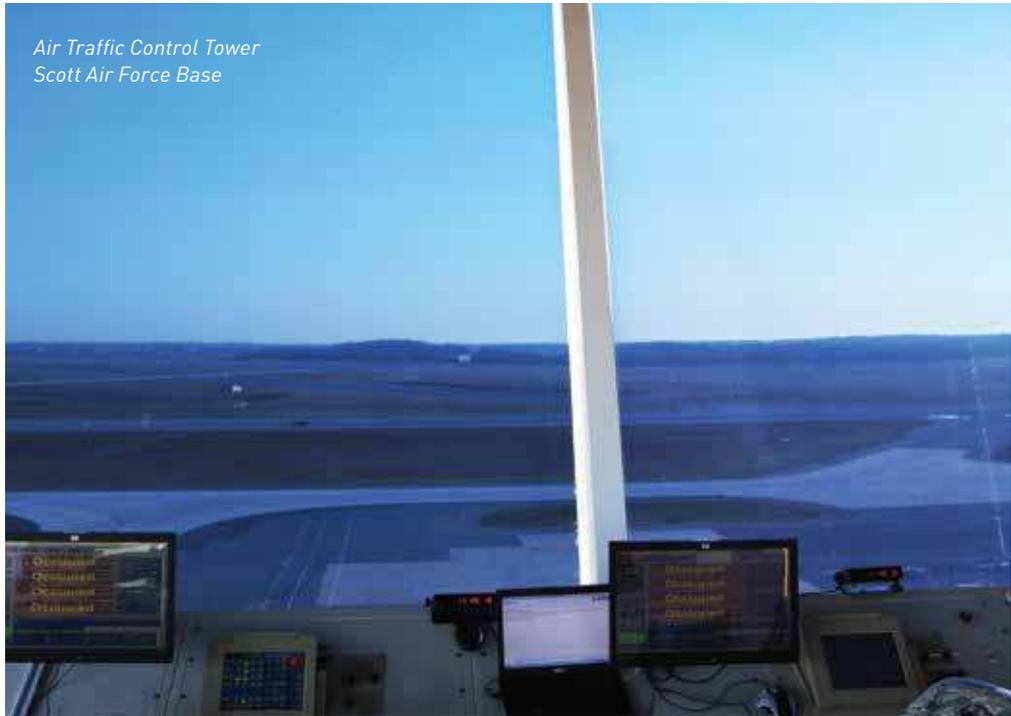
GOVERNMENT

Heightened security for the military

Halcyon shades meet military specifications for instances of heightened alerts. The unique properties of our shades maintain visibility of the outdoors for indoor personnel, while preventing anyone outside from seeing in.

Currently in use in offices and conference rooms on major military bases, Halcyon shades are also utilized in military air traffic control towers, government buildings, and other high-security applications.

Halcyon shades can provide comfort to employees by reducing glare and making government buildings more energy efficient. Our GSA Schedule Number is GS-03F-0126Y.



*Air Traffic Control Tower
Scott Air Force Base*



Block the heat and glare – create happier employees and customers while protecting merchandise

Transparency provides trust and comfort when entering a store or restaurant, making windows important for these establishments. Large amounts of sunlight, however, can create issues. Glare can contribute to eye strain for employees as they attempt to read their register screen. Customers may find seating to be uncomfortable due to both

the heat and glare. Finally, UV rays can damage products for sale and furnishings, costing owners thousands. Halcyon custom-designed shades create a comfortable environment for both customers and employees by blocking the heat and glare. Halcyon Shades increase profits with energy savings and reduce product shrink by eliminating UV rays.





Protect your home and budget

Natural sunlight in the home is beautiful, but UV rays can be extremely harmful to skin and furnishings. The sun's UV rays damage antiques, artwork, hardwood flooring, furniture, and carpeting. Halcyon Shades will eliminate as much as 99.9% of UV rays, while allowing natural light indoors. They protect the people and everything in the home – including the view. The Department of Energy has found that Halcyon Shades can pay for

themselves in as little as two years by reducing the effects of outside

temperatures and lowering energy costs.



How to improve your space with Halcyon Shades

Determine the right level of performance and transparency for your space

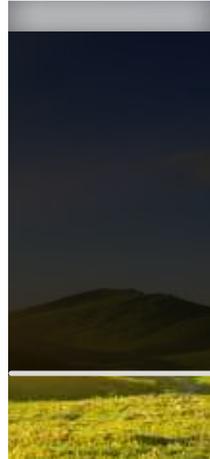
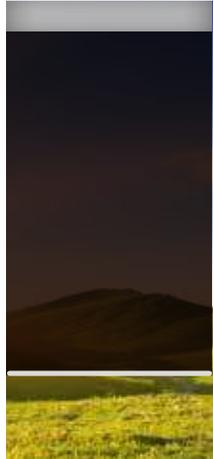
LEGEND

The values shown reflect:

Single-Pane, 1/4 inch (6mm), clear glass

Dual-Pane, 1/8 inch (3mm), clear glass

2" airspace between shade and glass



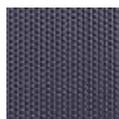
Maximum Performance / Lower Transparency



High Performance / More Transparency

Product #	B/S EM	B/S TR	G/S EM	G/S TR	B/B EM	B/B TR	G/G EM	G/G TR
Color / Texture*	Bronze Textured	Bronze Smooth	Gray Textured	Gray Smooth	Bronze Textured	Bronze Smooth	Gray Textured	Gray Smooth
Color exposed to outside	Silver	Silver	Silver	Silver	Bronze	Bronze	Gray	Gray
% UV Light Rejected	99.9%	99.9%	99.9%	99.9%	99.9%	99.9%	99.9%	99.9%
	99.9%	99.9%	99.9%	99.9%	99.9%	99.9%	99.9%	99.9%
Winter U Value	0.46	0.46	0.45	0.45	0.46	0.46	0.46	0.46
	0.29	0.29	0.29	0.29	0.30	0.30	0.30	0.30
% Visible Light Transmittance	2%	2%	2%	2%	11%	11%	7%	7%
	2%	2%	2%	2%	10%	10%	7%	7%
% Glare Reduction	98%	98%	98%	98%	88%	88%	92%	92%
	98%	98%	98%	98%	89%	89%	92%	92%
% Solar Energy Rejected	83%	83%	83%	83%	50%	50%	50%	50%
	80%	80%	80%	80%	48%	48%	48%	48%
Daytime Security	yes	yes	yes	yes	yes	yes	yes	yes

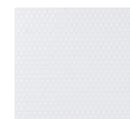
Choose the material for your shades



Textured shades diffuse the light and add durability



Smooth shades offer the highest level of transparency



Room darkening shades provide complete privacy

* Custom colors are available. Ask a representative for details.

Optimize your energy savings, health, privacy and comfort

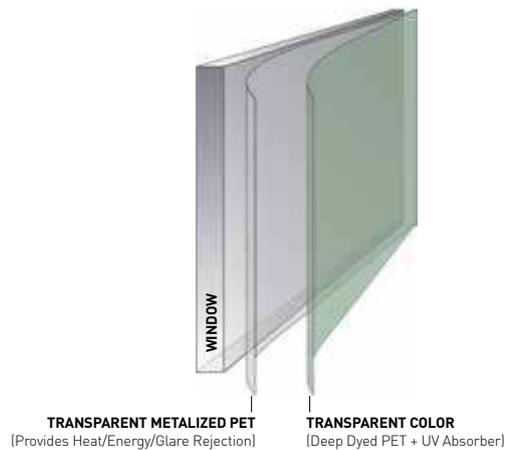


Medium Performance / High Transparency

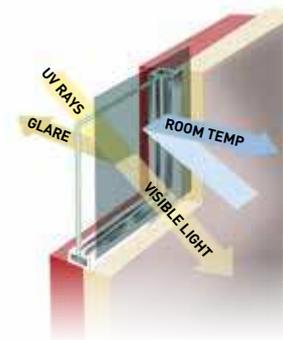


Room Darkening/ No Transparency

Halcyon Technology



Halcyon shades have the light- and heat-reflecting properties of metal. A precise, vacuum coating process bonds a micro thin layer of metal with a strong laminating adhesive to provide exceptional reflective properties for the best solar solution.



UV Rays and glare are reflected outdoors while visible light shines through. Room temperature is reflected back into the room.

Customization:

- Motorization with remote, timers and/or light sensors for automation
- Remote control and/or automation for individual shades or groups of shades
- Cassette covers available in squared, rounded and wood options (conceals the shade roll)
- Side rails to eliminate light gaps
- Weight bar
- Beaded chain

Definitions

UV Light Rejected: Percentage of ultraviolet solar energy rejected by a window and associated window treatments.

Winter U-Value: Factor indicating the film's ability to reflect heat back into a space (thermal resistance). The lower the U-value, the higher the resistance to heat transfer.

Visible Light Transmittance: Percentage of the visible solar energy that is allowed to pass through/transmitted into the interior of the space.

Glare Reduction: Percentage of the visible solar energy that is not allowed (rejected) to pass through a window and associated window treatments. A near opposite of Visible Light Transmission.

Solar Energy Rejected: Percentage of the total solar energy spectrum that is reflected or absorbed by the window and associated window treatments.

The photos shown above are simulations, created to convey the variations in transparency available.

Halcyon Fabric Shades



Add a soft touch to your decor while minimizing the glare with Halcyon Fabric Shades – the sunscreen fabric backed by a lifetime warranty.

Outward Visibility - Openness Factor

Halcyon Fabric Shades offer different levels of glare reduction and transparency through the openness factor — the tightness of the weave in the fabric. A 10% openness factor allows the most sunlight between the threads, offering more transparency but lower glare and UV reduction. The 0% openness of the Halcyon Blackout Shades completely blocks sunlight.

Environmentally Friendly and Safe

The world's first non-toxic PVC compound coats polyester to form a yarn that is stronger, lighter and less expensive to produce than traditional vinyl coated fiberglass fabrics. Declared safe by Oeko-Tex® Standards 100 Low Odor Specially formulated non-toxic PVC does not contain odor-causing compounds generally associated with solar screen material.



Anti-Bacterial



Reduces the spread of germs in hospitals and other public institutions; certified SGS-ASTM G21, 22

Indoor Air Quality



Awarded GREENGUARD and GREENGUARD Children & School certification — an indoor air quality certification program for low emitting products and materials. It is a requirement reference in the LEED™ rating system.

Fire and Smoke Classification

Made from stable, durable, and fire resistant materials; certified M1, B1, B2, CA Title 19, NFPA 701

Incredibly Durable

A unique manufacturing process delivers technically superior fabrics; backed by a Lifetime Warranty.

Select colors available with extended lead times. Ask a representative for details.

Aesthetic versatility and a lifetime warranty

Available in 1%, 3%, 5%, and 10% openness | 3000 NET



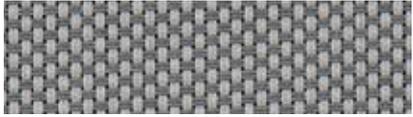
N001 White/White



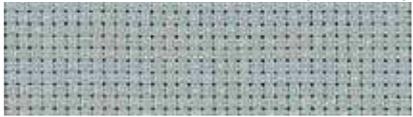
N003 White/Gray



N203 Beige/Gray



N302 Gray/Dark Gray



N303 Gray/Blue Gray



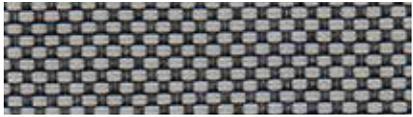
N304 Gray/Blue



N901 Charcoal/Charcoal



N902 Charcoal/Bronze



N903 Charcoal/Gray

Available in 3%, 5%, and 10% openness | 4000 NET



NPE1 Dove/Dove



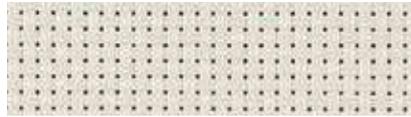
N002 White/Beige



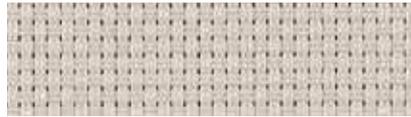
NPE2 Dove/Sand



N003 White/Gray



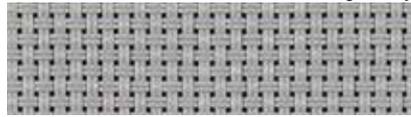
N091 Cream/Cream



N201 Beige/Beige



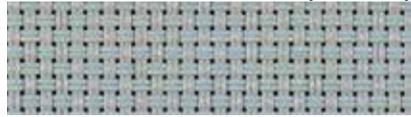
N203 Beige/Gray



N301 Gray/Gray



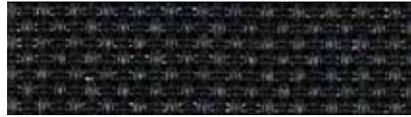
N302 Gray/Dark Gray



N303 Gray/Blue Gray



N801 Bronze/Bronze



N901 Charcoal/Charcoal



N902 Charcoal/Bronze

0% openness | Halcyon SierraSol Mesa



Dove White



White



Pearl



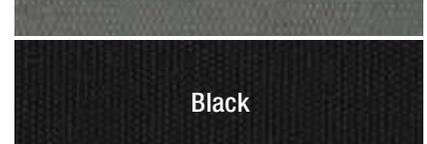
Latte



Seal



Cocoa



Slate

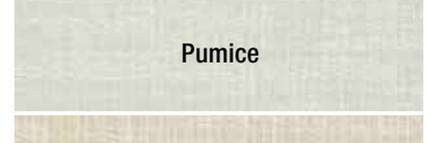


Black

0% openness | Halcyon SierraSol Vista



Surf



Pumice



Sand



Paperbark



Dune



Driftwood

Motors and Sensors

Automated shading systems are functional and easy to use with Radio Frequency Somfy Wire Free options. Easily installed and without wires or plugs, the motors are concealed within the window covering, maintaining the aesthetic appeal. Motorization is activated via remote, wall switch or sensors.



Roll Up WireFree™ RTS LT30

Ideal for areas with limited access to power outlets or wiring, this battery-powered low-voltage tubular motor has a range of 65 feet. Compatible with the full range of RTS controls and accessories. Convert to a plug-in system with the use of a transformer. #1001683



Battery Tube

The 12V DC Reloadable Battery tube uses 8 AA lithium batteries for Somfy powered WireFree™ motorized window coverings. Just unscrew the cap and replace the batteries as needed. Clips for easy mounting and an extension cord are available. Only works with LT3) motor. #9014020



Sonesse® 30

Premium, quiet performance is provided with a low voltage 24V DC motor. Compact and low-profile, Sonesse 30 motors are easily concealed within the cassette. Speed regulation allows precise alignment of adjacent shades. Available in Radio Technology Somfy® (RTS), dry contact and digital RS485. DCT: #1000668; RTS: #1001524; ILT: 1000658



Sonesse® 40

The Sonesse® 40 continues the Sonesse® range tradition of silence. When operating at normal conditions, the Sonesse® 40 is nearly silent from 3 feet away. To enhance the value of Sonesse® 40 installations, Somfy has created a line of specialized accessories with industry partners Acmeda and Rollease to provide maximum acoustic comfort. Available in both RTS and Wired control technologies and is powered by standard line voltage (120VAC). #1001636

Indoor Sunis WireFree™ RTS Sun Sensor

Automatically control window coverings based on the intensity of the sun. Sensors can be installed and programmed in a few seconds, and can easily be added to any new or existing RTS installation. Compatible with all interior RTS motorized window coverings. # 9013707



Remote Operation

Solar control with flexibility and programming

INDIVIDUAL CONTROL

Single Channel Control

A single channel remote allows control of 1 window covering

Multi-Channel Control

A 5-channel remote can control up to 5 individual window coverings

GROUP CONTROL

Single Channel Control

A single channel remote allows control of a single group of window coverings

Multi-Channel Control

A 5-channel remote can control up to 5 specific groups of window coverings



Telis RTS

Telis hand-held remotes offer convenient and simple operation of every type of motorized application featuring Radio Technology Somfy® (RTS). Available in 1, 5 and 16 channel versions. Each channel can control an individual motorized window covering or a group of

motorized coverings. Telis 1 Pure: #1810632; Telis 4 Pure: #1810633; Telis 16 RTS Pure: #1811081



DecoFlex WireFree™ RTS Wall Switch

Includes the same features as the Telis hand-held remote but located on the wall, providing control of window coverings when entering or exiting a room. Completely wireless and battery-powered and easily installed, they are available in 1-5 channel versions and a variety of finishes such as white, black, almond, and ivory. Personalize the names of each channel with engraved buttons. Table mount option also available. DecoFlex

WireFree 5 Channel: White #1810813, Ivory #1810814, Black #1810830, Almond #1811181; DecoFlex WireFree 4 Channel (kit): White #1811074, Ivory #1811075, Black #1811073; DecoFlex WireFree 3 Channel (kit): White #1811071, Ivory #1811072, Black #1811070; DecoFlex WireFree 2 Channel (kit): White #1811068, Ivory #1811069, Black #1811067; DecoFlex WireFree 1 Channel: White #1810897, Ivory #1810898, Black #1810899, Almond #1811180; DecoFlex face plate 4 channel: White #61114043, Ivory #61114044, Black #61114045; DecoFlex face plate 3 channel: White #61114033, Ivory #61114034, Black #61114035; DecoFlex face plate 2 channel: #61114024, Ivory #61114025, Black #61114026; DecoFlex WireFree Table Top: Silver #1810972, Black #1811051, White #1811185



Telis 1 Chronis RTS

The functionality of a programmable timer in a single channel RTS hand-held control. Compatible with all motorized RTS applications. An on-screen display and simple programming make operation simple. The Quick Set feature allows programming with a brief button press; Automatic Mode allows one open and one close function per day, with different operation available for weekdays and weekends; Manual Mode allows the user to override the programmed operation at any time. Wall mount clip available. #1805237



myLink

Somfy's powerful sunlight management app



Remote Access: Activate Somfy-powered applications even when you're away from home with a single tap.

Timed Events: Schedule scenes to automate motorized applications on a seven day schedule so you can effortlessly enjoy their many benefits.

On-screen Setup Wizard: Intuitive installation and setup allows you to enjoy your myLink experience in a short few minutes.

Flexible: Choose the best way to control your motorized applications with options such as individual control, group control, and more.

Compatible: Controls all Radio Technology Somfy® RTS products as well as RTS enabled lighting devices. #1811403

animeo

Mange your building's solar shades from one computer. Cutting edge sun-tracking technology with an intuitive interface automates motorized solar shades in large groups for optimal performance.

animeo IP

A total solar management system with digital keypads and weather sensors. The system's controllers, sensors and keypads can be added to both new and existing Somfy Digital Network installations for comprehensive solar management as either a stand-alone solution or integrated into third party control systems. An intuitive user interface allows for simplified commissioning, building management and technical support, featuring drag-and-drop zone creation, motor auto discovery and at-a-glance system status updates. #1860201SubCo

animeo IP System Design

Every animeo IP installation includes an animeo IP Building Controller that supports up to 200 motors. The animeo IP is a scalable system – network capacity is expanded by adding one Sub Controller for each additional group of 200 motors. For systems exceeding 1,000 motors, the Building Controller is configured to only manage network traffic and not have any direct motor connections. The animeo IP Controller resides on a standard Somfy Digital Network (SDN) bus. Proper SDN system design must be respected for optimal animeo IP performance. #1822314BuCo

Put the finishing touches on your shades for perfect performance.

Cover styles



Wood Cassette Beautifully stained, high quality wood to complement your home decor. Available in Light Oak, Cherry, and Sugar Maple.



Modern = Squared Squared design available in a rust-proof aluminum box in White, Alabaster, Bronze, Black, Blue, and Silver Anodized finishes. Shade retracts fully into the cassette.



Contemporary = Rounded Rounded design available in White, Alabaster, Bronze, Black, Blue, and Silver Anodized finishes. Shade retracts fully into the cassette.



Fascia Rounded and squared style fascia with matching end caps to conceal larger roller tube – 3" in White or Bronze (4" available for larger shades). Additional colors available upon request.



Retro Style Shade Exposed roller/clutch. Clutch available in White or Black.

Additional details



Exposed Weight Bar Exclusive extruded aluminum design provides a finished appearance; available in durable Silver Anodized and painted finishes in White, Bronze, Black, and Blue.



Weight Bar for Fabric Shades Exclusive extruded aluminum design provides a finished appearance; available in durable Silver Anodized and painted finishes in White, Bronze, Black, and Blue.



Hold-Down Clips Attached at bottom of shade – weight bar slides onto stop to anchor shade in place to prevent swinging or banging when door is opened or closed.



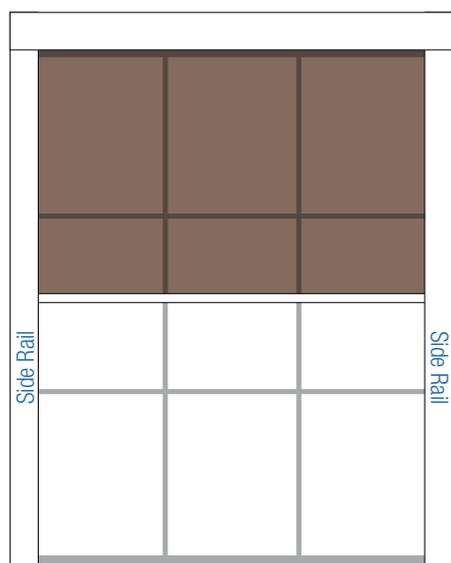
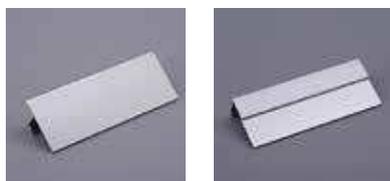
Beaded Chain Loop In heavy-duty coated plastic available in Light Grey, White, Bronze, Black, and Stainless steel with matching Chain Stop to hold at desired position. (Child Safety-Tension device included with each shade at no charge.)

RollEase Clutch systems are installed on all shades and guarantee smooth, precise raising and lowering of the shade, and hold the shade at the desired height. Their ten-year clutch warranty ensures trouble-free performance. Universal mounting brackets can be used for all types of mounting. Shades can be mounted for either right or left-hand operation. Spring roller available upon request.

Accessories and Configurations

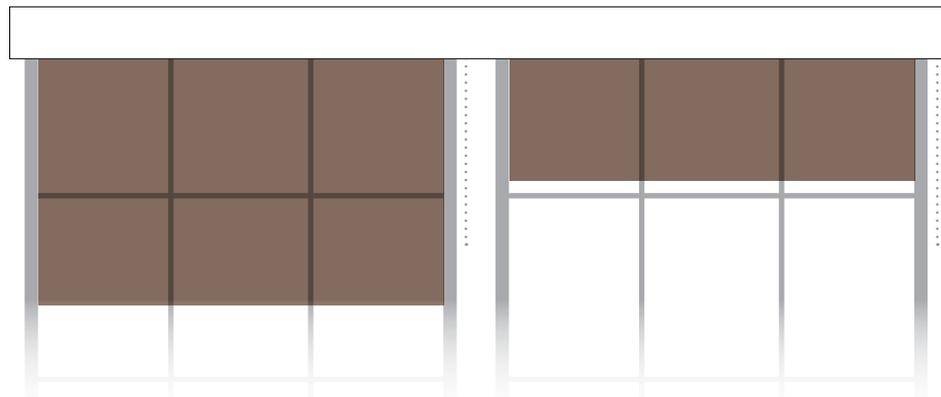
Side Rails

Eliminate light gaps with Silver Anodized aluminum or vinyl side rails, customized for fit and installed on each side of the window. The weight bar is designed to “float” inside of the rail to ensure secure and smooth shade operation. Can be used with cassette, fascia or retro shades. Available in White, Black, Bronze and Alabaster.



Configurations

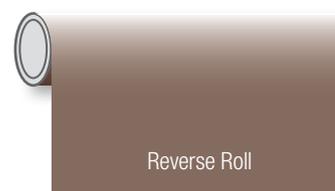
Halcyon Shades are customized to meet individual customer needs in performance, form and function. Customized features include the various configurations shown here. Halcyon is committed to working with customers to offer solutions outside of what is shown below.



Two-On-One Cassette For side-by-side windows or wide windows where individual operations are preferred: two shades that open and close independently, sharing the same cassette.

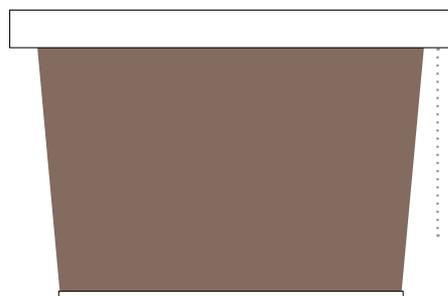


Regular Roll

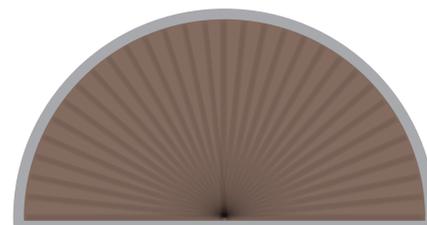


Reverse Roll

Regular Roll or Reverse Roll Regular Roll allows the shade material to roll down from the rear of the shade. With a Reverse Roll, the material will roll over the front of the shade, which is useful if there is an obstacle in the window such as a crank handle. Regular Roll is standard.



Tapered Shade Allows for windows with a different top-to-bottom angle. The bottom portion of the shade must always be smaller than the top of the shade.



Arched Shade Pleated shade, stationary. Maximum width 5'. Exact radius height must be 50% width (e.g., a shade 5' wide must be 2.5' tall). Available in Bronze/Silver, Gray/Silver and Bronze/Bronze.

EASY CLEANING AND SANITATION

Wipe the shades with isopropyl alcohol to clean

FLAME RETARDANCY STANDARDS

All films meet the requirements of NFPA 701 Test Method (1-2004 Edition)

WARRANTY

Textured - 5 years; Smooth - 3 years

MAINTENANCE

There are no service-oriented parts supplied with the shade. Adjustment or repair should only be performed by the professional installer. Complete maintenance instructions are included with each shade.

CHILD SAFETY

Young children can strangle in cord and bead chain loops. They can also wrap cords around their necks and strangle.

Always keep cords and bead chains out of children's reach. Move cribs, playpens and other furniture away from cords and bead chains. Children can climb furniture to get to cords. Attach tension device to wall or floor. This can prevent children from pulling cords and bead chains around their necks.

SIZE LIMITATIONS AND SEAMS

Shades may require a seam if both the width and the height of the window exceed 70" each. Shades can not exceed a three to one ratio of length and width. Contact our customer service department for more information.



Contact your Halcyon Rep Group, or authorized Halcyon Shades Dealer for more information and to receive an estimate.



At Halcyon Shades pigs fly every day.

