

ECLIPSE

EXTERIOR SUNSHADES

Whether in your home or office, without the Eclipse Sunshade system managing sunshine can be an impossible task. We appreciate the natural sunlight that brightens up our rooms, but are frustrated by the glare it creates on our computer screens, televisions or in our faces when we try to read or talk with friends. It is difficult to protect our furniture and flooring from fading by the sun's rays, but still we don't want to give up our precious view of the outside. Let's not forget the uncomfortable heat it causes in the late afternoon! Eclipse Sunshade systems are the answer to these problems. The high tech fabrics used in these screens are designed to filter the sunlight, rather than blocking it out. It effectively reduces heat absorption, prevents cooling loss, and helps to eliminate glare. While they provide substantial protection against fading they still preserve the outside view. For over twenty years Screen America Corporation has been engineering, manufacturing and marketing motorized roll-up screens and shades and with a worldwide distribution network we have the experience and technological background to provide you with truly effective sunlight management.

WINDOWS
DOORS
LANAIS
PATIOS
DECKS



ECLIPSE for WINDOWS and DOORS

CONTROL INTERIOR TEMPERATURE

RESIDENTIAL

PROTECT INTERIOR DECOR



REDUCE COOLING COST

MAINTAIN VIEW

REDUCE GLARE

COMMERCIAL

LIMIT UV

Our beautiful roll-up retractable shading systems are custom made by combining cutting-edge fabrics and electronic technology to add comfort, privacy, protection, beauty and value to your home. By incorporating Eclipse Sunshade systems on your home you will immediately control the negative effects of excessive sun exposure on the interior living space. You will enjoy the filtered light coming through windows and doors by reducing glare. Room heating and ultra-violet damage to interior furnishings through windows and doors will be reduced by up to ninety-five percent. And the Eclipse Sunshade system can conceal the interior from view outside while preserving the beautiful view from inside offering the best combination of privacy and view. As a bonus, by bathing the outside of your Eclipse Sunshade with light this privacy can be maintained even at night.



"TAMING THE SUN, RETAINING THE VIEW"

ECLIPSE for DECKS & LANAIS

PROVIDES:

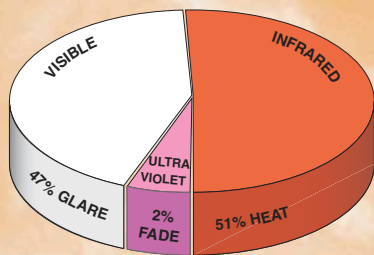
- SHADE
- PRIVACY
- COMFORT
- PROTECTION
- GLARE REDUCTION



Outdoor living space such as patios, lanais, balconies, decks and pergolas can also take advantage of the benefits of Eclipse Sunshade systems both beautifully and effectively. Our shading systems not only shade the direct sunlight on your person but also the floors and opposite and adjacent walls which otherwise would absorb the heat and reradiate the heat back into the outdoor living space. Our shades help define the space and can reduce the heat in your outdoor living space by ten degrees or more making it pleasant, private, comfortable and cozy while extending your enjoyment through the late afternoon and setting sun.

"TAMING THE SUN, RETAINING THE VIEW"

THE SCIENCE BEHIND ECLIPSE EXTERIOR SUNSHADE TECHNOLOGY



SOLAR SPECTRUM

The solar spectrum (sunlight) consists of infrared radiation (IR), visible light, and ultraviolet radiation (UV). The energy distribution within the solar spectrum is 51% IR radiation, 47% visible light and 2% UV radiation. IR radiation is adsorbed as heat when it is incident upon any object. It is what heats the earth and the air around it. Visible light is the only component of the solar spectrum perceivable to the human eye. Long term exposure to

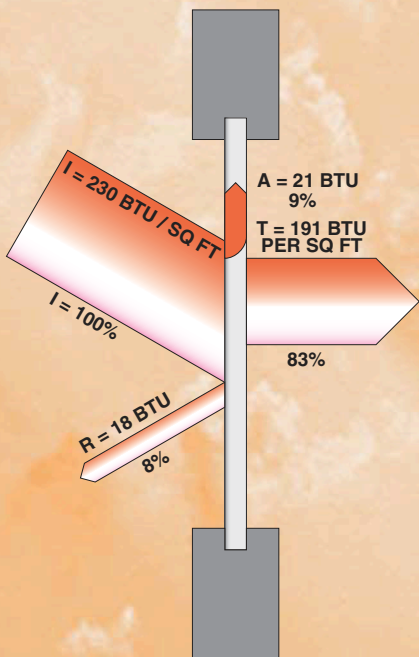
UV radiation damages surfaces causing fabric, paint and wood fading and deterioration of plastics and human skin cells.

When solar energy is incident upon a surface, portions of the radiation are reflected (R), absorbed (A) and transmitted (T). These three processes must account for all the incident radiation according to the RAT formula:

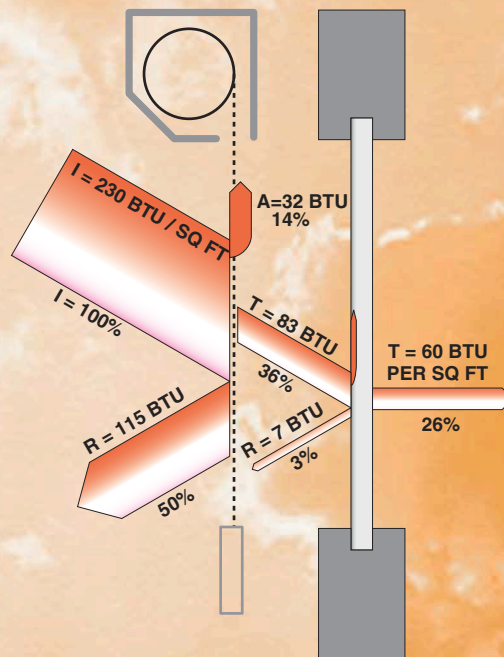
$$I = R + A + T$$

The RAT formula, with which we

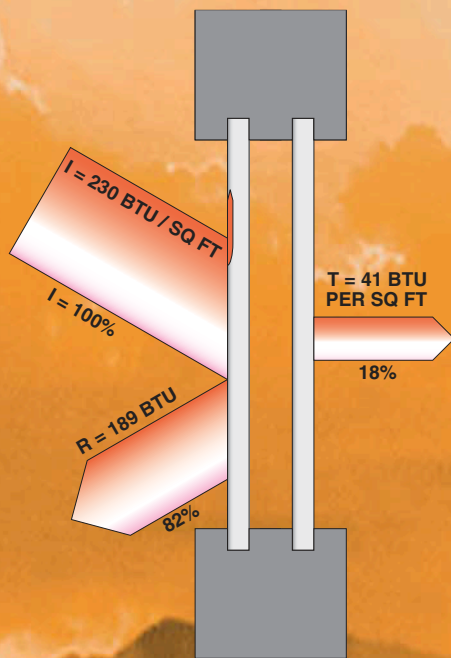
are here most concerned, must account for 100% of the IR radiation that will convert to heat. (It equally applies to visible and UV radiation.) Solar IR radiation energy in mid-summer at 40 deg. N. latitude and perpendicular to the incident surface is 230 BTU per hour per square foot. The shade screen examples below are for white Phifer SheerWeave 1000. The shade factor is 100% minus the weave's openness factor; in this case 25%.



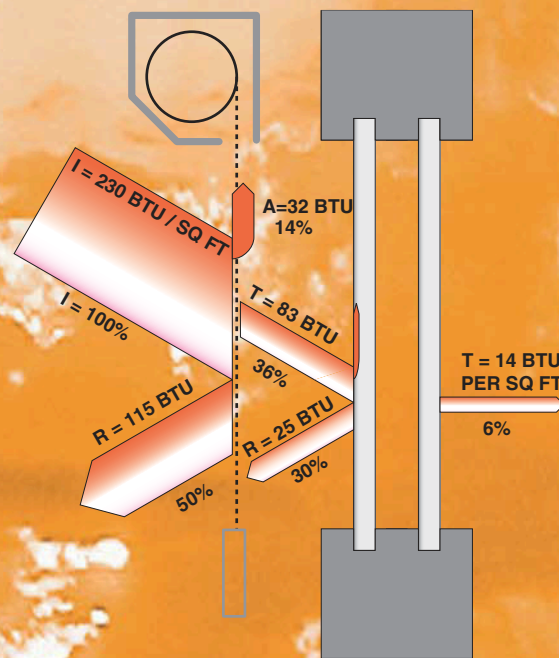
1/4" CLEAR GLASS



1/4" CLEAR GLASS SHADED BY 75% SHADE FACTOR SCREEN














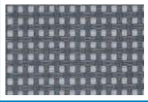
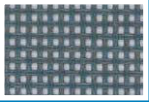




















1" LOW-e INSULATING GLASS



1" LOW-e INSULATING GLASS SHADED BY 75% SHADE FACTOR SCREEN

SUN MANAGEMENT FABRICS

SHADE FACTOR	FABRIC STYLE	FABRIC COLORS			
68%	SOLAR INSECT SCREEN	 GRAY	 CHARCOAL		
75%	SUN SCREEN	 GRAY	 BRONZE	 CHARCOAL	
	SheerWeave 1000	 WHITE	 ANTIQUE WHITE		
80%	SunTex 80	 STUCCO	 GRAY	 BROWN	 CHARCOAL
90%	SunTex 90	 STUCCO	 GRAY	 BROWN	 CHARCOAL
	Super Solar Screen	 GRAY	 CHARCOAL		
	SheerWeave 4100	 ALABASTER 4100	 CHALK	 PEBBLESTONE	 GREYSTONE
95%	SheerWeave 4000	 ALABASTER 4000	 GRANITE	 PEWTER	 ASH
97%	SheerWeave 4400	 ALABASTER 4400	 EBONY	 TOBACCO	THESE COLORS ALL AVAILABLE IN 4000, 4100 & 4400
99%	SheerWeave 4800	 ALABASTER	 SLATE	 STONE	 GREY
		 NICKEL			

ECLIPSE: OPTIONS & CONTROLS



Fabrics: All fabrics are vinyl coated fiberglass or polyester yarns woven to precise standards. In addition to our standard high technology shade fabrics we offer a full selection of optional fabrics from Phifer, Mermet and Twitchel and the new SilverScreen ultra-fine aluminum layered fabric with the highest solar energy reflectance available. Fabrics are available meeting flame retardant, UV and bacterial/fungal resistant requirements.

Colors: In addition to the standard colors of white, beige or bronze the housing, tracks and crossbar can be custom powder coat painted to a full scratch and corrosion resistant 4 mil thickness. There are over two thousand custom colors to choose from and colors can be mixed to match your specific needs.



Controls: Eclipse Sunshade systems operate with ac electric motors that can be controlled by hand held or wall mounted remote controls either individually, in groups or whole building. They can also be controlled automatically with wind or sun sensors. They are easily integrated with full building automation systems using buss line communication inputs such as IPS, IR emitter, RS 232 or dry contact.

Cable or Track Models: To protect your ECLIPSE SUNSHADE from wind damage the bottom crossbar can be restrained and guided by either cable or track systems depending on the specifics of the particular application and installation. Tracks are powder coat painted extruded aluminum and cables are stainless steel.