

# LEED & GREEN INITIATIVES



  
**Joseph Allen**  
WINDOW INTERIORS

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At Joseph Allen, our commitment to respecting the earth has been a guiding force in the way we do business from day to day. As a supplier, we feel it is our responsibility to our community, state, and country to constantly seek out ways to reduce waste, save energy, eliminate hazardous materials and improve indoor air quality to lessen our impact on the environment. In addition to our recycling efforts, we also feature a full line of fabrics for roller shades, woven woods, and roman shades that save energy, reduce UV damage, and are “GreenGuard” certified. When you see that logo, you can rest assured that particular fabric has been thoroughly tested and has met all standards for a healthy and safe environment for you and your kids, and may also contribute to LEED points. This is all part of our on-going efforts to provide our customers with beautiful window treatments and bedding that give their properties the impact they are looking for, all while leaving as little of an impact on earth as possible.





# GOING GREEN

## LEED & WINDOW COVERINGS

LEED (Leadership in Energy and Environmental Design) is a leading edge system for certifying the greenest performing buildings in the world. It was started in 1998 and administered by the United States Green Building Council (USGBC). Visit [www.usgbc.org](http://www.usgbc.org) for a complete outline of the LEED credit categories, as well as any prerequisites required to obtain the proper credits. Below are multiple LEED provisions of which Joseph Allen could help obtain points for your next project. For further help understanding where Joseph Allen can help obtain LEED points, please see the next page.

### Where Joseph Allen solutions contribute to LEED certification?

#### ***Daylighting***

##### **LEED NC 2.2 - EA 1.0**

Daylighting shading systems work through redirecting the natural light to reduce the usage of artificial lighting and thereby reduce the energy used for powering electric lights and energy used cooling the heat generated by electric lights.

#### ***Energy Reduction***

##### **LEED NC 2.2 - EA 1.0**

Energy reduction through window coverings may be quantified in two primary categories; reduction of solar energy entering a space and thereby reducing the amount of energy used for cooling and reduction of thermal energy leaving the space and thereby reducing the energy required for heating.

#### ***Recycled Content***

##### **LEED NC 2.2 - MR 4.1,4.2**

Recycled content can be defined as materials used in the production of products that have been redirected from the waste stream. Usually these materials are associated into two categories, pre-consumer and post-consumer.

#### ***Automation***

##### **LEED NC 2.2 - EA 1.0**

Maximum indoor comfort can be achieved through building and automation systems which regulate and allow users discrete management over thermal control and light levels to suite individual needs or those of groups in shared spaces.

#### ***Indoor Environmental Quality***

##### **LEED NC 2.2 - EQ 4.2**

Volatile organic compounds (VOCs) are air pollutants produced from off gassing of materials that can cause respiratory and other health problems. Check for one of the many low VOC products that pass the GreenGuard Air Quality Certified and GreenGuard for Children and Schools. All GreenGuard Certified Products have been tested for their chemical emissions performance including formaldehyde, volatile organic chemicals (VOCs), respirable particles, ozone, carbon monoxide, nitrogen oxide, and carbon dioxide.

## What's new in LEED V3.0?

The new system of LEED places more emphasis on energy and atmosphere. There are also new credits for innovation and design point. ASHRAE 90.1 2007 is now the new baseline. There is also a 10% minimum energy performance improvement.

	LEED NC 2.2 (OLD VERSION)		LEED NC 2009 (NEW VERSION)		
LEED Categories	Possible Pts.	% of Total Pts	Possible Pts	% of Total Pts	Difference (%)
Sustainable Sites (SS)	14	20.29	26	23.64	3.35
Water Efficiency (WE)	5	7.25	10	9.09	1.84
Energy and Atmosphere (EA)	17	24.64	35	31.82	7.18
Material & Resources (MR)	13	18.84	14	12.73	-6.11
Indoor Environmental Quality (IEQ)	15	21.74	15	13.64	-8.10
<b>Bonus Points</b>					
Innovative Design (ID)	5	7.25	6	5.45	-1.79
Regional Priority (RP)	0	0	4	3.64	3.64
<b>Totals</b>	<b>69</b>	<b>100</b>	<b>110</b>	<b>100</b>	

	LEED NC 2.2 (OLD VERSION)		LEED NC 2009 (NEW VERSION)	
Level	Lower Limit	Upper Limit	Lower Limit	Upper Limit
Certified	26	32	40	49
Silver	33	38	50	59
Gold	39	51	60	79
Platinum	52	69	80	110

## Just how significant can Joseph Allen's solutions be?

LEED Categories	Credit
Sustainable Sites (SS)	• Light Pollution Reduction
Energy and Atmosphere (EA)	• Commissioning • Energy Performance
Material & Resources (MR)	• Recycled Content
Indoor Environmental Quality (IEQ)	• Controllability of Systems • Daylight & Views
Innovation in Design (ID)	• Innovation in Design

# GOING GREEN

## DAYLIGHTING & WINDOW COVERINGS

### *Daylighting*

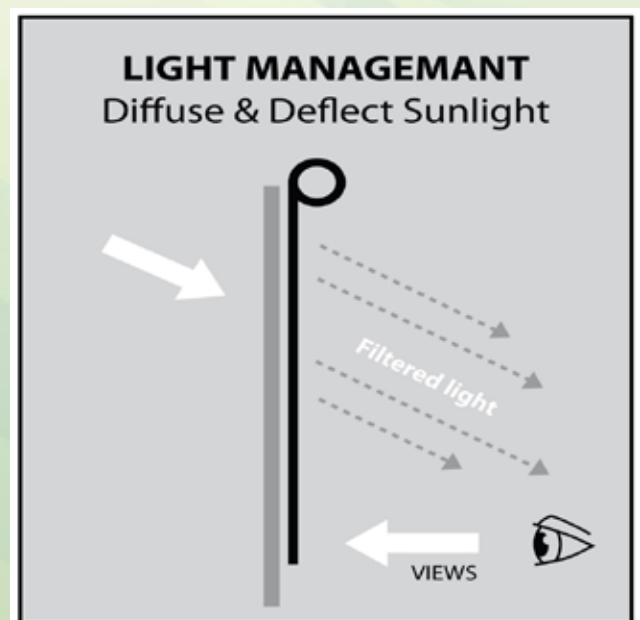
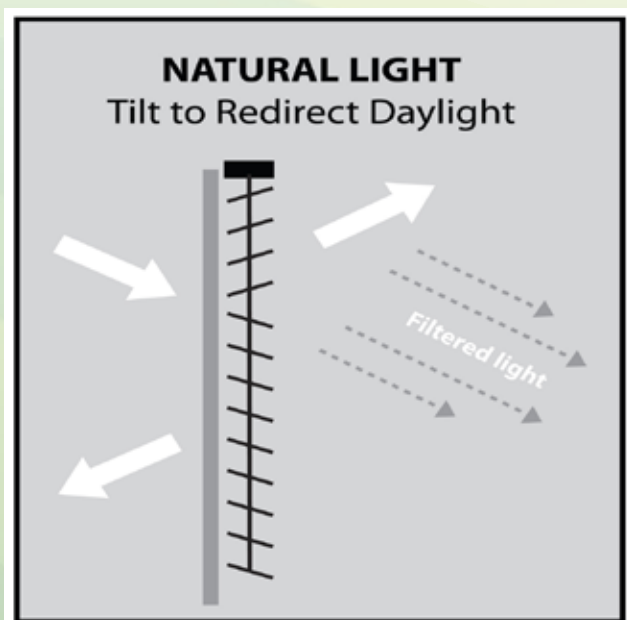
#### **LEED NC 2.2 - EA 1.0**

Daylighting shading systems work through redirecting the natural light to reduce the usage of artificial lighting and thereby reduce the energy used for powering electric lights and energy used cooling the heat generated by electric lights.

## Daylighting

Research shows that people prefer to work in natural daylight and maintain visual contact with the outdoors. Real value is attached to knowing what the weather is like and what's happening outside and this in turn contributes to a sense of wellbeing and an increase in productivity. Studies also show that students that have access to natural light and direct views of the outdoors, typically retain more of what they learn, on average about 21% more. By eliminating all distractions such as glares, reflections off of walls, desks and computers, a student is in a much more learning friendly environment. A well designed shading solution can significantly enhance the comfort and well-being of a buildings occupants.

Darker colors control glare and preserve "view-through" ability. Lighter colors reflect more heat, so less heat is gained in the room (light fabrics create glare and are harder to see through). Joseph Allen can offer duplex fabrics that provide a reflective white back in combination with a darker color front. A duplex fabric can control heat, light a light colored mesh fabric, and provide glare control and view-through ability like a dark mesh fabric.





# MOVING LIGHT, SAVING GREEN

Make your natural light work for you, not against you...



## **Obinion by 3-G Mermet**

Room darkening, PVC-free fiberglass base material. Looks similar to Flocke, but with a softer feel. Anti-static treated. Rot proof. White exterior with a choice of four interior colors.

## **Flocke by 3-G Mermet**

Opaque, PVC-free fiberglass base material. White exterior or with a choice of fifteen interior colors. Room side of fabric has a soft woven finish.

## **Vela by 3-G Mermet**

The tighter weave of this PVC-free 100% polyester fabric offers enhanced glare control for both residential and commercial applications. Vela fabric is available in seven dynamic colors.

## **SheerWeave 2000/21000 by Phifer**

Fiberglass yarns coated with sun-resistant vinyl. Non-directional fabric which is washable and flame retardant.

## **SheerWeave 2500/2400/2900/2600 by Phifer**

Vinyl-coated fiberglass, woven into a full basket weave designed expressly for those applications which require a more opaque and non-directional fabric.

## **SheerWeave 2701/2703/2705/2710 by Phifer**

The SW2700 series is a PVC-coated fiberglass broken twill with a light side and dark side to maximize energy efficiency.



# GOING GREEN

## ENERGY REDUCTION & WINDOW COVERINGS

### **Energy Reduction**

#### **LEED NC 2.2 - EA 1.0**

Energy reduction through window coverings may be quantified in two primary categories; reduction of solar energy entering a space and thereby reducing the amount of energy used for cooling and reduction of thermal energy leaving the space and thereby reducing the energy required for heating.

## Energy Reduction

Window shades are the most effective and flexible way to receive the benefits of daylight, yet manage the light and heat entering a room. Control the heat and light, and you have control over energy costs.

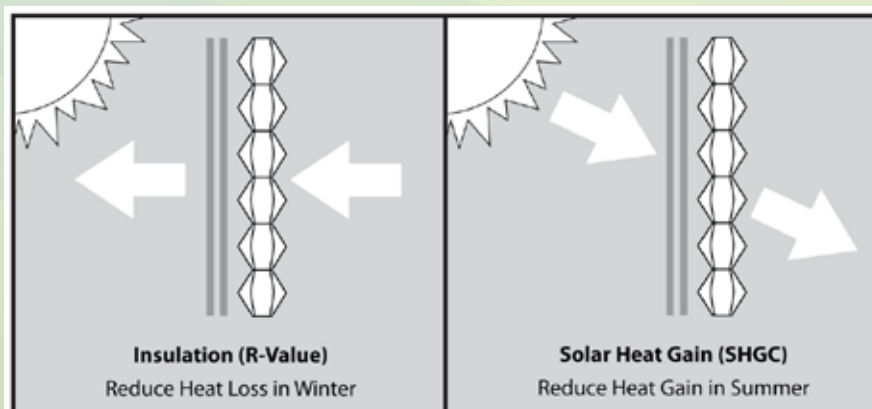
Energy-efficient window coverings translate into year-round savings on heating and cooling costs. The windows in your home truly are “energy holes.” Over 75% of unwanted heat transfer in your home is through the windows, which accounts for up to 25% of your monthly heating bill. By using the right window treatments, you can essentially insulate your windows and keep your HVAC unit from over working itself. A quality shading solution can generate savings that can reach 50% or more and in sun-belt areas shading systems can pay for themselves in as little as three years.

### **WINTER: R-VALUE**

A products “R-Value” is a measurement of its ability to resist heat flow. During the winter season, the R-Value is reflectance of the ability to keep heat inside. The higher the R-Value, the more insulation that given product provides.

### **SUMMER: SOLAR HEAT GAIN COEFFICIENT (SHGC)**

A products “solar heat gain coefficient” is a measurement of its ability to reduce heat gain from the sun. In terms of windows, it is the fraction of solar energy striking a window that actually passes through to heat the room. The lower a SHGC, the less solar energy in transmits. A SHGC is typically displayed is a decimal i.e. .76 This is saying that 76% of the solar energy will pass through.





# SAVING GREEN

Making energy conservation look beautiful...

Line	Winter R Value	%UV Blockage
3000 CA	2.08	97
3000 D	2.08	95
3000 HT	2.08	97
3000 NET	2.08	95
3000 RR	2.08	97
3100 NET	2.08	90
3300 NET	2.08	97
3500 HT	2.08	95
4000 L	2.08	95
4000 L	2.08	95
4000 NET	2.08	95
4000 W	2.08	97
4100 NET	2.08	90
4300 NET	2.08	97
4700 P	2.08	99
4700 Q	2.08	99
A Screen	2.08	86
E Screen 7501	2.08	99
E Screen 7503	2.08	97
E Screen 7505	2.08	90
E Screen 7510	2.08	90
M Screen 8503	2.08	97
M Screen 8505	2.08	95
M Screen Deco	2.08	95
R Screen	2.08	95
Satine	2.08	95
Sheerweave 2000	2.08	95
Sheerweave 2100	2.08	90
Sheerweave 2360	2.08	90
Sheerweave 2390	2.08	95
Sheerweave 2410	2.08	97
Sheerweave 4000	2.08	95
Sheerweave 4100	2.08	90
Sheerweave 4400	2.08	97
Sheerweave 4500	2.08	95
Sheerweave 4650	2.08	97
Sheerweave 4800	2.08	99
Sheerweave 7000	2.08	100
VIEW	2.08	85
VIEW SS	2.08	97

By increasing your homes energy efficiency, you may also be qualifying yourself for an energy efficiency mortgage, which allows lenders to use a higher than normal debt to income ratio to calculate loan potential. In addition, your home will likely have a higher resale value.

# GOING GREEN

## RECYCLED CONTENT & WINDOW COVERINGS

### ***Recycled Content***

#### **LEED NC 2.2 - MR 4.1,4.2**

Recycled content can be defined as materials used in the production of products that have been redirected from the waste stream. Usually these materials are associated into two categories, pre-consumer and post-consumer.

## Recycled Content

Eco-friendly Sheerweave Infinity is PVC-free and 100% recyclable. SheerWeave Infinity starts with the only core yarn, synthetic or natural, that is born out of post-industrial waste by-product. Emulating the look and engineering of standard SheerWeave fabrics, Infinity's yarn coating is developed from the same compound family as its core yarn. Like its SheerWeave predecessors, Infinity provides the same solar heat and glare control properties that have elevated window treatments from mere decoration to high performance takes for conserving energy, harnessing natural light and maintaining interior comfort levels.

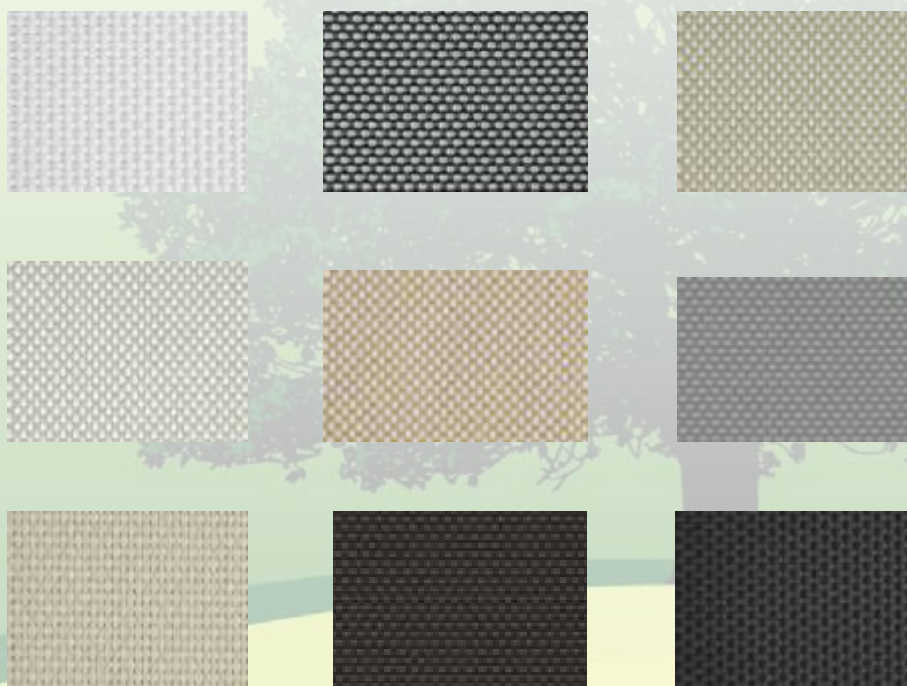
- SheerWeave Infinity composition: 100% TPO (Thermoplastic Olefin)
- 100% recyclable (from both post consumer and post industrial sources)
- Repeat recyclability for continued sustainability
- PVC-free
- Lead-free
- GreenGuard Certified
- Produced from 100% post-industrial waste by-product
- Every component of this TPO compound is heat and chemically stable
- Six neutral colors
- Offered in both 3% and 5% open basket weave construction
- Resistant to microbial and fungal growth
- Durable and washable
- Excellent solar heat control and UV and glare reduction capabilities
- 5-Year Limited Warranty

# GREEN TO STAY

Sustainable window treatment fabric...



SheerWeave Infinity is 100% recyclable and PVC-free. The use of these fabric options in your next project, could lead to obtaining LEED points.





# GOING GREEN

## AUTOMATION & WINDOW COVERINGS

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### **Automation**

#### **LEED NC 2.2 - EA 1.0**

Maximum indoor comfort can be achieved through building and automation systems which regulate and allow users discrete management over thermal control and light levels to suite individual needs or those of groups in shared spaces.

## Motorization & Programmable Controls

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Regardless of the fabric type selected, maintaining the best balance between maximum energy efficiency and daylighting benefits is a task best accomplished with motorized shades and programmable control systems.

Joseph Allen understands that cost and the comfort of your guests are two of your key concerns, and Somfy equipment allows you to reduce both your energy and maintenance expenditure. Automated sun protection devices enable you to reduce your heating and air conditioning requirements and to adapt your equipment accordingly. At the same time, by limiting hands-on contact with your curtains and sun protection devices, you are able to extend their life span and keep them looking fresher for longer. The option to centralize all controls also significantly reduces your cleaning and maintenance costs.

In the hospitality sector, the challenges of sustainable development, energy efficiency and respect for the environment are extremely important. Somfy's automation solutions optimize natural ventilation and the sun's heat, control heat exchange between indoors and outdoors and reduce the need for air conditioning and heating. They are eco-friendly by nature.

Your clients are unique, and as such their development needs are also incomparable. With Somfy, a building's curtains, Venetian blinds, roller shutters, and screens play a major role in both comfort and privacy. These elements play a triple role: they protect (lighting control, protection of private spaces), regulate (thermal comfort) and create atmosphere (modify natural light, transform spaces).

# GREEN IN MOTION

Achieving maximum energy efficiency through motorization...



Joseph Allen's selection of programmable controls is a great way to maximize energy efficiency in your next project. The savings could pay for them self in as little as three years. Group control options are also available.



## Timers



### **Chronis Comfort 24/7 WireFree Timer** **Telis Impresario Chronis Comfort**

Somfy Control switch with integrated radio receiver can be used to replace a wired control to upgrade the system to a radio solution. The user then benefits from radio remote control. Compatible with all Somfy RTS remote controls. .

## Sensors



### **Sunis WireFree Sun Sensor** **Eolis WireFree Wind Sensor**

Sun and wind sensors take the current environmental conditions and adjust your window treatments accordingly. Greay way to reduce your energy bills.

# GOING GREEN

## IN DOOR AIR QUALITY & WINDOW COVERINGS

### **Indoor Environmental Quality**

#### **LEED NC 2.2 - EQ 4.2**

Volatile organic compounds (VOCs) are air pollutants produced from off gassing of materials that can cause respiratory and other health problems. Check for one of the many low VOC products that pass the GreenGuard Air Quality Certified and GreenGuard for Children and Schools. All GreenGuard Certified Products have been tested for their chemical emissions performance including formaldehyde, volatile organic chemicals (VOCs), respirable particles, ozone, carbon monoxide, nitrogen oxide, and carbon dioxide.

## GreenGuard Certification

The GREENGUARD Environmental Institute aims to protect human health and improve quality of life by enhancing indoor air quality and reducing people's exposure to chemicals and other pollutants. As an ISO-IEC Guide 65:1996 accredited, third-party organization, the GREENGUARD Environmental Institute certifies products and materials for low chemical emissions and provides a resource for choosing healthier products and materials for indoor environments. All certified products must meet stringent chemical emissions standards based on established criteria from key public health agencies. GREENGUARD Certification is broadly recognized and accepted by sustainable building programs and building codes worldwide.



The GREENGUARD Indoor Air Quality Certification Program gives assurance that products designed for use in office environments and other indoor spaces meet strict chemical emissions limits, which contribute to the creation of healthier interiors. Achieving GREENGUARD Certification gives credence to manufacturers' sustainability claims, backing them with empirical scientific data from an unbiased, third-party organization



For products intended for use in schools, day cares or other environments where children spend significant periods of time, the GREENGUARD Children & Schools Certification Program offers stricter certification criteria. It is referenced by both The Collaborative for High Performance Schools (CHPS) and the Leadership in Energy and Environmental Design (LEED) Building Rating System. Products certified to this standard are also suitable for use in environments where children and others work, play or reside.



# GreenGuard Fabrics

Sustainable, eco-friendly fabrics...



Most of Joseph Allen's fabrics meet the rigorous standards for indoor quality, and some are also 100% recyclable. PVC-free fabrics provide environmentally friendly solar solutions. We are proud to offer an extensive line of GreenGuard certified fabrics as seen below.



Line
3000 CA
3000 D
3000 HT
3000 NET
3000 RR
3100 NET
3300 NET
3500 HT
4000 L
4000 L
4000 NET
4000 W
4100 NET
4300 NET

Line
4700 P
4700 Q
A Screen
E Screen 7501
E Screen 7503
E Screen 7505
E Screen 7510
M Screen 8503
M Screen 8505
M Screen Deco
R Screen
Satine
Sheerweave 2000
Sheerweave 2100

Line
Sheerweave 2360
Sheerweave 2390
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Sheerweave 4400
Sheerweave 4500
Sheerweave 4650
Sheerweave 4800
Sheerweave 7000
VIEW
VIEW SS

