



**BLIND DESIGNS™**  
REFLECT YOUR STYLE

SHEER  
**ELEGANCE**



Photo Courtesy Blinds Express



SHEERWEAVE  
**BLINDS**

# SHEERWEAVE INTRODUCTION



SheerWeave® interior sun control fabrics provide the perfect balance of light, comfort and beauty, making them the ideal window covering solution for residential and commercial spaces alike. A sleek and functional alternative to ordinary window coverings, SheerWeave effortlessly and elegantly manages the sun's harsh heat and blinding glare.

## MULTI-FUNCTIONAL

SheerWeave filters and diffuses light while reducing glare and solar heat gain, conserving energy and helping to create a more comfortable environment. SheerWeave also helps reduce the fading of interior furnishings and flooring by protecting these surfaces from the sun's harmful effects. And unlike many window treatments, SheerWeave allows excellent outward visibility – even when blinds are lowered – to maintain optimal views.

## UNMATCHED STYLE

From modern, neutral hues to subtly-textured, organic weaves in warm earth tones, these fabrics are the perfect complement to any interior design scheme. SheerWeave fabrics are also available in a variety of openness factors ranging from one to five percent and wide widths to cover large window openings. Simple, clean and classic, SheerWeave can be fabricated into many different types of window treatments, and the aesthetic quality of these fabrics allows them to easily pair with other draperies and window coverings.

## INTRODUCTION TO SHADING

Below are a few principles to consider when choosing the optimal fabric for your next window covering project: SheerWeave fabrics reduce glare by 70%-100% based on colour and openness factor, which are the most important features to consider for energy savings and light management.

## LIGHT VS. DARK COLOURS

SheerWeave colour options range from creamy White and Bone to darker Charcoal and Chestnut tones. These colour designations go beyond aesthetics and colour coordination with interior décor. Lighter colour fabrics provide optimum heat reduction, reflect light and illuminate the interior. Darker fabrics provide a view to the outside and reduce glare, making them ideal for viewing computer and television screens.

## OPENNESS DIFFERENCES

The openness of a fabric refers to the weave or mesh structure and determines the amount of heat and light that enters a room. Generally, a more open fabric allows more heat and light to penetrate into the room, while tighter meshes block more heat and light. Additionally, more open fabrics help maintain better outward visibility. SheerWeave fabrics are offered in a variety of openness factors to allow optimal light in commercial buildings or provide more privacy in settings such as healthcare facilities.



# SHEERWEAVE FAMILY



## SHEERWEAVE 4901

1%

SheerWeave 4901 is a 1% open fabric, densely woven to provide maximum glare control for fully exposed facades that are subject to direct sun. SheerWeave 4901 offers an obscured view while controlling the glare. SheerWeave 4901 is available in seven colours. Also suitable for external applications.

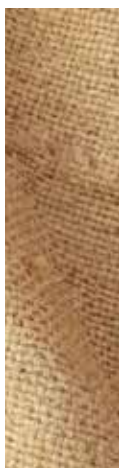
## SHEERWEAVE 4500

5%

SheerWeave 4500 is a 2x2 basketweave screen. It is 5% open and is suitable for most commercial and domestic environments. The broad range of colours, wide width, good value, excellent commercial and green credentials make it the go-to fabric for both domestic and commercial applications. It can also be used as an external product.



**HELPS  
PROTECT  
INTERIOR  
FURNISHINGS**



# TECHNICAL SPECIFICATION



SheerWeave 4500 is a 2x2 basketweave screen. It is 5% open and is suitable for most environments. The broad range of colours, wide width, good value, excellent commercial and green credentials make it the go-to fabric for both domestic and commercial applications.

SheerWeave 4500 can also be used as an external product.

SW4500 is manufactured using DOW ECOLIBRIUM bio based plasticizers, rather than fossil fuel based plasticizers. DOW Ecolibrium does not detract from the sunscreen's appearance or performance, and provides a sustainable green alternative to traditional sunscreens, without the PVC smell.

### Specification Statement:

Fabric to be SheerWeave 4500, a 2 x 2 basketweave that is 5% open. SheerWeave 4500 is to feature the following certifications: DOW Ecolibrium (bio based plasticizers with no PVC smell), Microban anti bacterial certification and Greenguard indoor air quality certification.

<b>Product Classification:</b>	Roller   Roman Panel   Sliding Panel   Outdoor
<b>Opacity:</b>	5% Screen
<b>Composition:</b>	25% Polyester, 75% Vinyl on Polyester (over 50% of compound components are derived from crop based feed stocks and minerals. Over 2/3 of total compound is derived from non fossil fuel based feed stocks)
<b>Fabric Width:</b>	2500   3200mm
<b>Weight:</b>	488 g/m2
<b>Environment:</b>	Interior and External use
<b>Fire Retardant:</b>	AS1530 Part III   California US Title 19 (small scale)   NFPA 701 – 2004TM#1 (small scale)   BS5867 2008 Part II Type B
<b>Certifications:</b>	DOW Ecolibrium (Bio based plasticizers) Microban antimicrobial additives GREENGUARD Mould and bacteria Standard GREENGUARD certified GREENGUARD for Children and Schools Lead Free No PVC smell
<b>Acoustical Performance:</b>	NRC (Noise Reduction Coefficient) and SAA (Sound Absorption Average) tested in accordance with ASTM C423-09a. NRC .15 / SAA .17
<b>Fabric Orientation:</b>	Multi-Directional
<b>Cleaning:</b>	Fabric should be regularly dusted/vacuumed. May be wiped with warm water and mild detergent.
<b>Warranty:</b>	10 Year Internal   5 Year External

Colour	Solar Optical Properties				Shading Coefficient	
	TS	RS	AS	TV	3mm CL	6mm CL
White	12	74	14	11	0.26	0.27
White Grey	10	49	41	11	0.44	0.43
White Linen	13	62	25	13	0.35	0.35
White Stone	12	61	27	12	0.36	0.36
Blue Grey	10	48	42	13	0.39	0.38
Linen	10	47	43	11	0.45	0.44
Grey	7	29	64	10	0.50	0.48
Dune Grey	11	36	53	12	0.47	0.44
Sandstone	8	40	52	9	0.36	0.36
Charcoal Grey	7	10	83	10	0.70	0.67
Charcoal Tan	6	18	76	9	0.57	0.52
Charcoal Bronze	7	5	88	9	0.73	0.70
Charcoal	5	3	92	7	0.74	0.70

TS = Solar Transmittance  
AS = Solar Absorption  
3mm CL = 3mm Clear Glass

RS = Solar Reflectance  
TV = Visual Transmittance  
6mm = 6mm Clear Glass



Photo Courtesy Warmbad Blinders



**BLIND DESIGNS™**  
REFLECT YOUR STYLE

# TECHNICAL SPECIFICATION



**SheerWeave**  
STYLE 4901

**1%**  
OPENNESS  
FACTOR

SheerWeave 4901 is a unique combination of colour and weave. SheerWeave 4901 is available as a 1% openness option, the fabric is specifically woven to provide a high degree of glare control and would be suitable for commercial applications such as high density offices with workstations close to windows. SheerWeave 4901 is available in seven colours. Also suitable for external applications.

SW4901 is manufactured using DOW ECOLIBRIUM bio based plasticizers, rather than fossil fuel based plasticizers. DOW Ecolibrium does not detract from the sunscreen's appearance or performance, and provides a sustainable green alternative to traditional sunscreens, without the PVC smell.

### Specification Statement:

Fabric to be SheerWeave 4901, a twill weave that maximises glare reduction. SheerWeave 4901 is to feature the following certifications: DOW Ecolibrium (bio based plasticizers with no PVC smell), Microban anti-bacterial certification and Greenguard indoor air quality certification.

- Product Classification:** Roller | Roman Panel | Sliding Panel | Outdoor
- Opacity:** 1% Screen
- Composition:** 17% Polyester, 83% Vinyl on Polyester (over 50% of compound components are derived from crop based feed stocks and minerals. Over 2/3 of total compound is derived from non fossil fuel based feed stocks)
- Fabric Width:** 3200mm
- Weight:** 4901 549 g/m2
- Environment:** Interior and External use.
- Fire Retardant:** AS1530 Part III | California US Title 19 (small scale) | NFPA 701 – 2004TM#1 (small scale) | BS5867 2008 Part II Type B
- Certifications:** DOW Ecolibrium (Bio based plasticizers)  
Microban antimicrobial additives  
GREENGUARD Mould and bacteria Standard  
GREENGUARD certified  
GREENGUARD for Children and Schools  
Lead Free  
No PVC smell
- Acoustical Performance:** NRC (Noise Reduction Coefficient) and SAA (Sound Absorption Average) tested in accordance with ASTM C423-09a. NRC .60 / SAA .59
- Fabric Orientation:** Multi-Directional
- Cleaning:** Fabric should be regularly dusted/vacuumed. May be wiped with warm water and mild detergent
- Warranty:** 10 Year Internal | 5 Year External

4901 Color	Solar Optical Properties				Shading Coefficient	
	TS	RS	AS	TV	3mm CL	6mm
Wheat	6	65	29	6	0.28	0.22
Chalk	6	75	19	6	0.22	0.19
Kettal	3	48	49	3	0.37	0.26
Grey	3	37	60	3	0.43	0.29
Charcoal Grey	2	11	87	3	0.57	0.36
Slate	2	8	90	3	0.58	0.36
Charcoal White	1	54	45	1	0.33	0.24

TS = Solar Transmittance  
AS = Solar Absorption  
3mm CL = 3mm Clear Glass

RS = Solar Reflectance  
TV = Visual Transmittance  
6mm = 6mm Clear Glass



Photo Courtesy Blind Rage



**BLIND DESIGNS™**  
REFLECT YOUR STYLE

# SHEERWEAVE CERTIFICATIONS



## DOW ECOLIBRIUM™

DOW ECOLIBRIUM Bio-Based Plasticizers offer a renewable alternative to traditional petroleum-based plasticizers for a more sustainable option. This unique green technology is exclusive to Phifer for the window treatment industry and can only be found in SheerWeave Style 4400/4000/4100 fabrics.

ECOLIBRIUM benefits include:

- Lowers greenhouse gas emissions as much as 40% vs. existing PVC compounds
- 98% of the plasticizer is derived from non-fossil fuel based feedstock
- Lower carbon footprint
- Phthalate-free
- RoHS compliant
- LEED credits for rapidly renewable content may be available
- Ability for compound to be recycled in a standard vinyl stream
- USDA certified bio-based product



SheerWeave fabrics manufactured with DOW ECOLIBRIUM maintain all of the established benefits of traditional vinyl such as durability, cleanability and fabric longevity.

## GREENGUARD

GREENGUARD Certification ensures products have met some of the world's most rigorous and comprehensive standards for low emissions of volatile organic compounds (VOCs) into indoor air. Phifer was the first manufacturer in the window treatment industry to achieve GREENGUARD certification for interior shading fabrics. Certification is completely voluntary and ensures that the highest industry standards are being applied to maintain indoor air quality for the health and safety of building occupants.



PRODUCT CERTIFIED FOR  
LOW CHEMICAL EMISSIONS  
UL.COM/GG  
UL 2818

## MICROBAN®

Phifer SheerWeave fabrics are the only shade fabrics in the world to include Microban protection. Microban antimicrobial protection works continuously to inhibit the growth of bacteria, mold and mildew that can cause stains, odors and product deterioration.

- Microban antimicrobial protection is infused into Phifer SheerWeave sun control fabrics for lasting protection that won't wash off or wear away for the lifetime of the shade.
- SheerWeave fabrics infused with Microban antimicrobial technology are ideal for any commercial or residential environment where microbes are a concern, including healthcare, hospitality, home, office, schools and institutions.
- Most SheerWeave fabrics include Microban® antimicrobial product protection. Microban is the leading technology in antibacterial/antifungal protection.



## UV PROTECTION

Most SheerWeave fabrics have received the Seal of Approval by the Melanoma International Foundation (MIF) for effectiveness in preventing sun damage to the skin or eyes.



## ENERGY SAVINGS

Solar heat gain can account for up to 50% of a building's energy costs according to the U.S. Department of Energy. By reflecting solar energy, Phifer's broad range of SheerWeave fabrics reduce solar heat gain, lower energy costs and improve comfort. Phifer shade fabrics allow for the use of natural day lighting to reduce the need for artificial lighting and provide additional energy savings.



# SHEERWEAVE CERTIFICATIONS



## LEAD FREE

Phifer's entire line of SheerWeave fabrics is lead free, meeting and far exceeding several window covering industry testing standards for hazardous materials. SheerWeave interior sun control products comply with RoHS/Directive 2002/95/EC, the US Consumer Product Safety Commission Section 101 and ANSI/WCMA A100.1-2007 for lead content. According to the Environmental Protection Agency, certain levels of exposure to lead, which can be found in everything from painted toys and furniture to soil around a home, can result in a variety of health effects. Even low levels of exposure can be harmful to children. The lead-free stamp marks another confirmation of Phifer's commitment to remain environmentally responsible.



## ACOUSTICAL (NOISE REDUCTION)

Driven by LEED environmental objectives, the trend of commercial design is to use more glass with exposed floors and ceilings. With these hard surfaces comes an acoustical challenge that architects and designers must address. Acoustical performance values are expressed by the NRC (Noise Reduction Coefficient) or the SAA (Sound Absorption Average). We have tested a broad range of SheerWeave fabrics for both values based on a free hanging vertical panel to best emulate a roller shade. BASIC 3%, Style 2500, Performance+ Style 2500+ and Style 4901 have overall NRC values of .50-.60 with even more impressive values within frequency ranges of human speech.



Style 4500  
Style 4901

NRC .15 / SAA .17  
NRC .60 / SAA .59

## PRINTABLE

Printing unique colors, patterns, logos and graphics on SheerWeave opens a whole new opportunity for product applications. SheerWeave fabrics are ideal for digital and screen printing methods. Your local printer can recommend the best print options based on their capabilities.



Photo Courtesy Blind Time Window Innovations



**BLIND DESIGNS™**  
REFLECT YOUR STYLE



 **SHEERWEAVE**  
BY PHIFER®

Photos Courtesy Blind Rage