



More than meets the eye.

Guide me

MORE THAN MEETS THE EYE

Something that at first glance may seem fairly everyday, might go on to surprise you. This is why we would like to take you on our journey, to give you a look behind the scenes and make you an integral part of our quality label. Remember - this 'guide me' will make sure that your view of Helioscreen and your knowledge of screen fabrics will **never be the same again.**

Table of contents

Welcome	6
About Helioscreen	9
Values	12
ESBO	14
LightTool®	16
Get to know me	18
Fabrics overview	20
Solar and luminous characteristics	22
A better ecological balance	24
Technical specifications fabrics	25
INTERIOR	
Star	27
OF 1%	29
OF 3%	32
OF 7%	35
Natte	39
OF 5%	41
OF 10%	43
Panama Pro	47
OF 1%	50
OF 3%	52
OF 5%	54
OF 10%	56
Glare 3	59
Panama Deco	63
Panama Chrome +	67
Impressions	71
DARKENING	
Opac 600	77
Print on screen	81

WELCOME

HELLO The art of communication is making sure you are understood. We have chosen English for our documentation. Please contact us, if anything might be unclear. We will help you in any way we can.

Kommunikasjonens kunst er å sikre at du blir forstått.

Vi har valgt engelsk for vår dokumentasjon. Vennligst kontakt oss om noe skulle være uklart. Vi er her for å hjelpe deg.

Kommunikationens kunst sikrer at du bliver forstået.

Vi har valgt engelsk i vores dokumentation. Kontakt os venligst, hvis noget er uklart. Vi vil hjælpe dig på bedst mulig måde.

De kunst van communicatie is ervoor zorgen dat u begrepen wordt.

We hebben voor Engels gekozen in onze documentatie. Contacteer ons gerust mocht iets niet duidelijk zijn. We helpen u op elke mogelijke manier verder.

El arte de la comunicación es garantizar que se nos entienda.

Hemos elegido el inglés para nuestra documentación. Por favor, contacta con nosotros si hay algo que desees aclarar. Te ayudaremos en todo lo que sea posible.

A arte de comunicar é ter a certeza que somos compreendidos.

Decidimos escolher o inglês para a nossa documentação. Por favor, contacte-nos caso algo não seja claro. Ajudá-lo-emos no que seja possível.

Sztuka komunikacji opiera się na pewności, że się rozumiemy.

Do naszej dokumentacji wybraliśmy język angielski, ale prosimy, dajcie nam znać, jeśli cokolwiek będzie niejasne. Zrobimy co w naszej mocy, aby Wam pomóc.

Die Kunst der Kommunikation ist es, sicherzustellen, jederzeit verstanden zu werden.

Wir gestalten unsere Informationsmaterialien in Englisch. Bitte kontaktieren Sie uns, sollte etwas unklar sein. Wir werden uns sofort darum kümmern.

L'arte della comunicazione è assicurarsi di essere capiti.

Abbiamo scelto l'inglese per la nostra documentazione. Non esitate a contattarci per qualsiasi chiarimento. Saremo lieti di potervi essere di aiuto.

Искусство общения состоит в достижении понимания.

Мы выбрали английский язык для документации. Пожалуйста, свяжитесь с нами, если что-нибудь неясно. Мы сделаем всё, чтобы помочь Вам.

İletişim sanatı, anlaşıldığının garantisidir.

Dökümanlarımızın İngilizce olmasını tercih ettik. Anlaşılmayan konularda lütfen iletişime geçiniz, elimizden geldiğince yardımcı olmaya çalışacağız.

沟通的要义在于有效的理解。

如果您在阅读此份英文资料时，存有有任何疑问请与我们联系，我们将竭诚为您解答。

十分ご理解いただくために。

本力タログ製作では英語を選びましたが、万一不明な点がございましたら、お気軽にお問い合わせください。

فن الاتصال هو التأكد من أنك مفهوم .

وقد اخترنا اللغة الإنجليزية لوثائقنا. يرجى الاتصال بنا، إذا كان هناك أي شيء غير واضح. سوف نساعدك في أي طريقة ممكنة.



ABOUT HELIOSCREEN

INTRO Helioscreen has built up a global reputation as a developer and manufacturer of top quality fiberglass screen fabrics. The company has become a trendsetter when it comes to innovative, functional sun protection fabric for professional, commercial and residential environments.

Whether it is office spaces, public buildings, hotels, showrooms or private residences, Helioscreen has the fabric, expertise and experience required to meet every functional and aesthetic need for your project.



Helioscreen participates in the European Solar Shading Database – ES-SDA: <https://es-so-database.com>. An initiative to collect credible, trustworthy data about different types of solar shading. All data are checked by accredited laboratories and reviewed by our peers. You can find the ES-SDA logo next to the fabric colors that are included in the database at the publishing of this Guide Me. We will keep adding fabric to the database. Check out ES-SDA and our website for the latest information.





Quality is not expensive,
it is priceless.



VALUES



Helioscreen
fiberglass

Helioscreen favors fiberglass yarns in order to guarantee the **highest levels of quality**. Fiberglass yarn for screen fabrics consists of twisted glass filaments, covered by a PVC coating. A combination that has **important advantages**.

We also developed a **special, unique production system** ensuring that the coated fiberglass yarn can be optimally processed and applied.



Dynamic stability
weaving

Helioscreen's R&D department has a number of **highly-qualified engineers** who create technical innovations and concepts for the company. This team has accomplished a number of **unique innovations**, including our **own fabric technology**: Dynamic Stability Weaving or DSW.

DSW means that fabrics are woven in a **straighter, more stable way**. Making them ideal for a range of uses, including highly demanding applications. We apply this unique production formula to every roll of fabric we manufacture. This helps us guaranteeing the **best quality at all times**.



Preorder
planning

Because Helioscreen knows the market for its products inside and out, the company is more than a supplier, it is also an **advisor**. This means that you can make elaborate enquiries relating to your purchase and draw on all the expertise and knowledge we have accumulated over the last few decades.

With proactive pre-order planning we can give our key accounts **delivery reliability**. We consult you before the season starts and together, work out your annual requirement. From this starting point, we can determine the right quantity, the desired color and width, and have your fabric ready for dispatch right on time. This proactive collaboration **significantly saves you stress and money**. You do not have to build up a large inventory and can plan and follow up your fabric requirements to the finest detail.

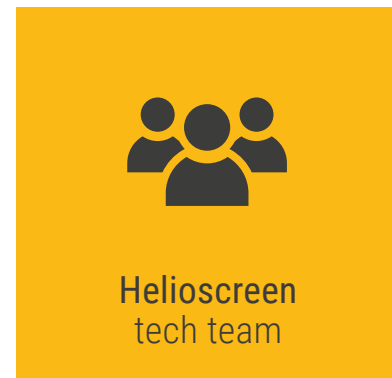
Helioscreen not only supplies top quality products, it also provides **top quality service**. Every day and at every occasion, our customer service takes the opportunity to look beyond your query to proactively assist you every step of the way. Our people love their job and our products, and that is reflected in everything we do!

You can also consult our Helioscreen **Area Sales Managers**. Not only do they know everything about fabric, these experts know like no other which integration options exist and how best to apply them.



Helioscreen Tech Support provides four crucial services: **The E-team, LightTool, ESBO** and the **Helioscreen Ambassadors**.

- **The E-team** draws up the perfect solution to your issue. They make comparative simulations, analyse data and provide you with the right support. You will receive figures and data, in clear and straightforward language.
- **LightTool** is a software program that can easily create a light transmission simulation for you. You can use this program yourself, or if you prefer, rely on the support of the E-team.
- **ESBO** is a tool that creates a simulation of heat penetration and indicates how much energy you could save.
- **The Helioscreen Ambassadors** are our partners across the globe. They know all the benefits of our screens and set out in detail what impact they can have. They can also provide you with the right advice about the fabric you need for your application.



ESBO

For a better Performance in Thermal Comfort

ESBO makes it possible to calculate the approximate energy gains you will enjoy after installing blinds with Helioscreen fabric. The most current fabric and climate data from locations all over the world, enable us to produce the most accurate simulations. An elaborated report containing graphs and calculation results, makes it possible to compare various scenarios and helps you in making the right decision.



An example of a calculation for interior:

OFFICE

Floor area	10.0 m ²
Envelope area	6.5 m ²
Window area	1.8 m ²
Volume	26.0 m ³
Envelope area per Volume	0.25 m ² /m ³

WINDOW

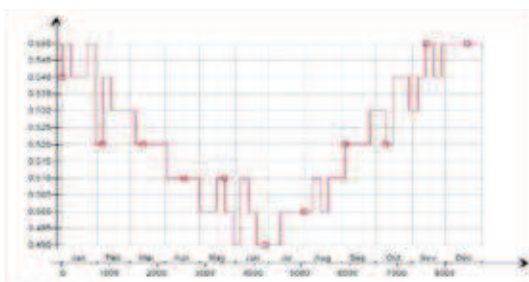
Size	1200 x 1500 mm, 1.8 m ² (incl. frame)
Glazing	Glazing-C_EN14501 [U=1.24, g=0.59, Tvis=0.72]

Interior solutions	No shading	Panama Pro 3% dark	Panama Pro 3% light	Panama Chrome
No. of hours over 25 °C*	134.5	101.6	5.4	0.0
No. of hours over 27 °C*	0.0	0.0	0.0	0.0

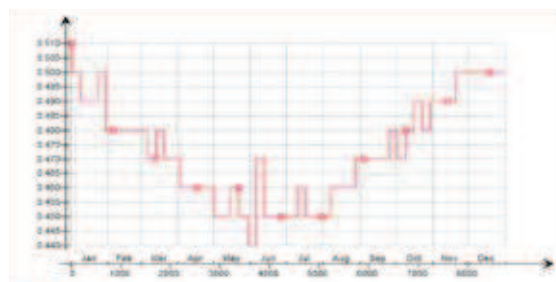
* Operative temperature, i.e. experienced temperature (incl. thermal radiation)

g for system (ISO15099)	0.59	0.53	0.38	0.34
g for glazing (ISO15099)	0.59	0.59	0.59	0.59

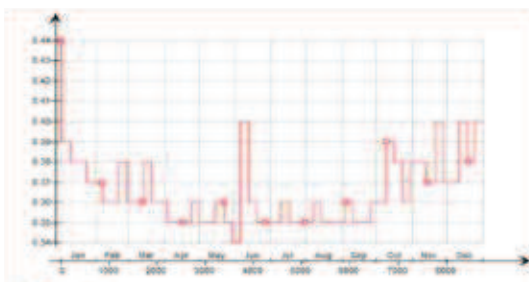
Simulated g-value for glazing-shading system during the design day. Weighted daily average with respect to incident radiation intensity.



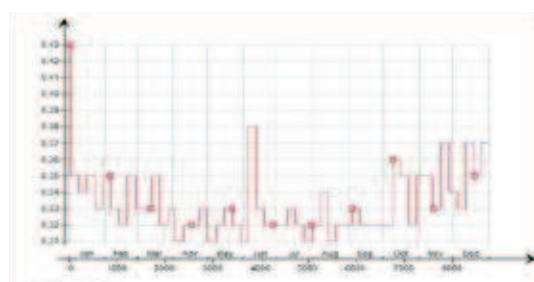
annual g system - no shading



annual g system - Panama Pro 3% dark



annual g system - Panama Pro 3% light



annual g system - Panama Chrome

If you would like a free simulation (one simulation per project) just send an e-mail to marketing@helioscreen.com.

LIGHTTOOL®

For a better Performance in Visual Comfort

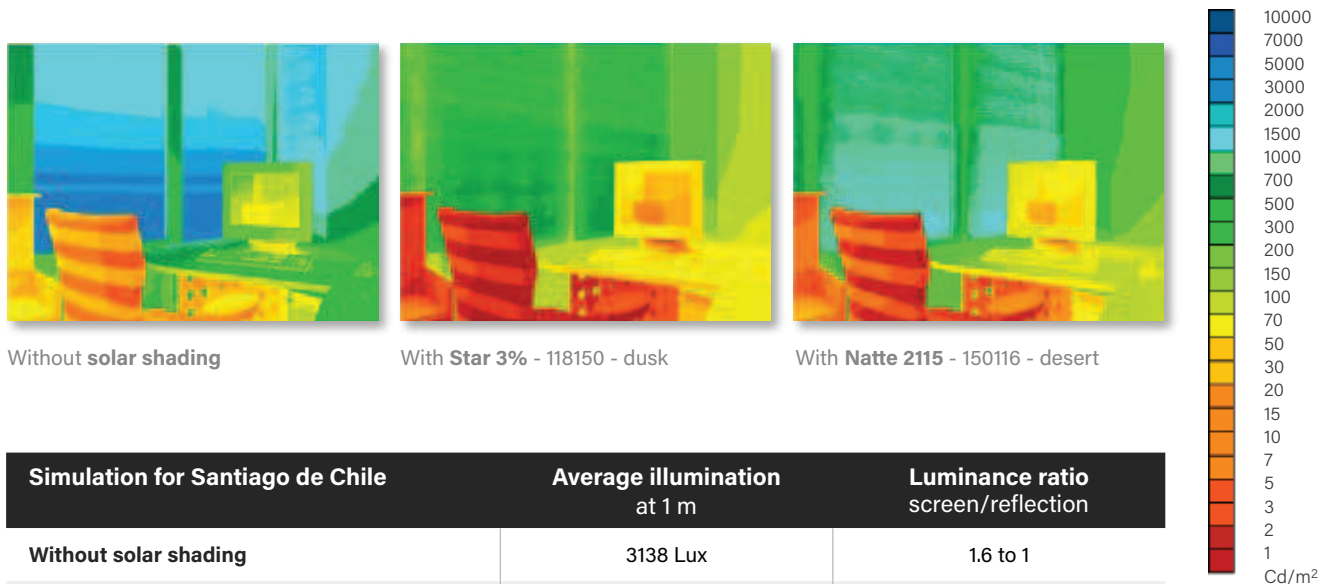
Helioscreen has designed and developed an intelligent software program, called LightTool®, which allows to make daylight simulations in an office environment. This valuable tool will help you in choosing an appropriate fabric and solar control system for the office environment.

In a few steps LightTool® leads you to the right choice:



- 1 Choose the geographical location
- 2 Select the orientation of the facade
- 3 Select the date and time
- 4 Select the percentage of glazing in the facade
- 5 Select your shading strategy
- 6 Select the weather condition
- 7 Now you can go to single view and create your report

You can make a simulation for several situations, for example:



Without solar shading

With Star 3% - 118150 - dusk

With Natte 2115 - 150116 - desert

Simulation for Santiago de Chile	Average illumination at 1 m	Luminance ratio screen/reflection
Without solar shading	3138 Lux	1.6 to 1
With solar shading: Star 3% - 118150	418 Lux	5.2 to 1
With solar shading: Natte 2115 - 150116	975 Lux	2.8 to 1

Visual comfort is available when:

- The contrast levels on different surfaces inside the office are mastered.
- Sufficient light is available, preferably natural daylight.
Illumination levels in between 500 and 1500 lux are ideal. In the above example the column 'Average illumination at 1 m' shows that Natte 2115 - 150116 is with 975 lux within the ideal range to provide sufficient daylight.
- There are no annoying reflections in the computer screen.
The luminance ratio (in Cd/m²) of the computer screen and the daylight falling on the computer screen should be minimum 3 to 1 or higher. In the above example the 'Luminance ratio screen/reflection' shows that Star 3% - 118150 provides the best result with a ratio of 5.2 to 1.

If you would like a free LightTool® simulation (one simulation per project) just go to www.helioscreen.com/calculation.php and fill out the form.

GET TO KNOW ME

DISCOVER ME, SHOW ME, GUIDE ME, TRUST ME, ...

get to know me inside and out





SHOW ME | Our 'Show me' presentation will help you communicating the benefits of screen fabrics. Step by step it reveals the numerous advantages of screen fabrics. The 'Show Me' is modular and can be customized to your own needs and personalized with your own brand name.

DISCOVER ME | Ask for our 'Discover me'! A beautifully designed sample box, containing sample swatches of the complete range of Helioscreen fabrics.

Each swatch provides a complete color overview per fabric range. All swatches are also separately available. If you require it, these sample swatches can be branded with your company name or company logo and adjusted to your needs

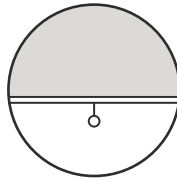


FABRICS OVERVIEW

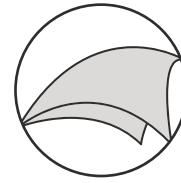
FABRICS	FABRIC CODE	SOLAR SHADING	
		EXTERIOR	INTERIOR
Interior			
Star 1%	TR01A		●
Star 3%	TR03A		●
Star 7%	TR07A		●
Natte 5%	TN05A		●
Natte 10%	TN10A		●
Panama Pro 1%	BJ01A		●
Panama Pro 3%	BJ03A		●
Panama Pro 5%	BJ05A		●
Panama Pro 10%	BJ10A		●
Glare 3	BH05A		●
Panama Deco	BD03A		●
Panama Chrome +	BJ03M		●
Impressions	FN04A		●
Panama Pro 5 vertical vanes	BJ05AD		●
Darkening			
Opac 6000	ZZXXO		●
Print on screen		●	●



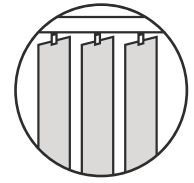
Signage



Solar shading



Tensile structures



Vertical vanes

OPENNESS FACTOR	STANDARD WIDTHS (IN MM) TOLERANCE: -0%, +5%	COLORS	ROLL LENGTH (NOMINALLY)
1%	2500	13	25 m
3%	2500	13	25 m
7%	2500	13	25 m
5%	2500	9	25 m
10%	2500	9	25 m
1%	2500/3100	9	30 m
3%	2500/3100	9	30 m
5%	2500/3100	9	30 m
10%	2500/3100	9	30 m
5%	3100	4	30 m
3%	3100	5	22 m
3%	2400	5	30 m
4%	3000	10	30 m
5%	89/127	8	50 m
0%	1830	4	27 m

SOLAR AND LUMINOUS CHARACTERISTICS

As Green Building Assessment methods like BREEAM and LEED gain importance, knowledge of the solar and luminous characteristics of sunscreen fabrics becomes imperative. All figures provided in this Guide are measured and calculated by accredited laboratories according to the latest European standards and will tell you exactly how efficient our fabrics are.

EN 410

EN 410 (1998): Defines how to make spectral measurements on fabrics and how to calculate the solar transmittance (T_s) and solar reflectance (R_s) values. The solar transmittance and reflectance values are required for the calculation of the solar factor "g".

G-VALUE CALCULATION

EN ISO 52022-1 (2017): This standard specifies the simplified method for the calculation of the solar factor "g". The solar factor or g-value is the total solar energy transmittance whereas "gtot" is the solar factor of the combination of glazing and solar protection device.

VISUAL AND THERMAL COMFORT

EN 14501 (2005)*: Performance characteristics and classification of a solar protection device or roller shutter with regard to visual and thermal comfort. The standard defines the technical characteristics of 4 typical glazings (A,B,C,D) for the calculation of the "gtot" value and classifies the thermal and visual comfort.

** At the publication of this Guide Me the EN 14501 was under revision.
Please check our website for the latest values.*

Glazing	U (W/m ² K)	g	T _s	R _s	R _s '
A	5,8	0,85	0,83	0,08	0,08
B	2,9	0,76	0,69	0,14	0,14
C	1,2	0,59	0,49	0,29	0,27
D	1,1	0,32	0,27	0,29	0,38

If you need figures for other glazing types than the ones above, please do not hesitate to contact Helioscreen for a precise calculation.

Influence on thermal and visual comfort

CLASS	0	1	2	3	4
	Very little effect	Little effect	Moderate effect	Good effect	Very good effect

Total solar energy transmittance g_{tot} - Classification

CLASS	0	1	2	3	4
g _{tot}	g _{tot} ≥ 0.50	0.35 ≤ g _{tot} < 0.50	0.15 ≤ g _{tot} < 0.35	0.10 ≤ g _{tot} < 0.15	g _{tot} < 0.1

Glare Control

Glare control is characterized by:

- The capacity of the solar protection device to control the luminance level of openings and to reduce the luminance contrast between different zones within the field of vision.
- The capacity of the solar protection device to prevent disturbing reflection on visual display due to the luminance of the window and the surrounding surfaces.

Visual Contact with the Outside

Visual contact with the outside is the capacity of the solar protection device to allow an exterior view when it is fully extended.

Night Privacy

Night privacy is the capacity of a blind to protect persons, at night in normal light conditions from external view.

Glare control - Classification

Tvdir	Tvdiff			
	< 2	2 ≤ / < 4	4 ≤ / < 8	≥ 8
> 10	0	0	0	0
5 < / ≤ 10	1	1	0	0
≤ 5	3	2	1	1
= 0	4	3	2	2

Visual contact with the outside - Classification

Tvdir	Tvdiff		
	0 < / ≤ 4	4 < / ≤ 15	> 15
> 10	4	3	2
5 < / ≤ 10	3	2	1
≤ 5	2	1	0
= 0	0	0	0

Night privacy - Classification

Tvdir	Tvdiff		
	0 < / ≤ 4	4 < / ≤ 15	> 15
> 10	0	0	0
5 < / ≤ 10	1	1	1
≤ 5	2	2	2
= 0	4	3	2

Daylight utilization - Classification

CLASS	0	1	2	3	4
Tvdif-h	Tvdif-h < 2	2 ≤ Tvdif-h < 10	10 ≤ Tvdif-h < 25	20 ≤ Tvdif-h < 40	Tvdif-h ≥ 40

Daylight utilization

Daylight utilization is characterized by:

- The capacity of the solar protection device to reduce the time period during which artificial light is required;
- The capacity of the solar protection to optimize the daylight which is available.

Daylight utilization is quantified by the parameter Tvdif-h, the diffuse hemispherical transmittance.

A BETTER ECOLOGICAL BALANCE

Helioscreen fiberglass screen fabric is an environmentally friendly solution for your sun shading demands. Fiberglass is a natural mineral with unique mechanical features that make it very durable.

The weaving and the processing of the fabric do not consume a great deal of energy nor is there much waste produced. Fiberglass screen fabrics are completely recyclable.

The yarns we use are Oëkotex standard 100 certified and our fabrics are REACH compliant.

REACH

REACH (Registration, Evaluation, Authorisation and Restriction of Chemical Substances), is a European community regulation on chemicals and their safe use. The purpose of REACH is to address the production and use of chemical substances, and their potential impacts on both human health and the environment. Ensuring that Helioscreen is compliant is a continuous process of evaluating and monitoring all aspects of the regulation. Although we are a so-called 'Downstream user' and have no registration obligations, we are always committed to take the necessary actions to comply with the REACH requirements.

Helioscreen fabrics help achieving Greener Buildings

BREEAM

Visual comfort is a key aspect in BREEAM, the world's leading and most widely used environmental assessment method for buildings. You can win several credits with our fabrics for daylighting, glare control and view out. The Dutch version of BREEAM even demands a glare control class of 3.

Our fabrics also contribute to thermal comfort and energy savings, important criteria as well.

LEED

LEED is the North American equivalent of BREEAM and stands for Leadership in Energy and Environmental Design. The goal is to encourage environmental awareness amongst government agencies, architects, engineers, developers and builders. The latest version of LEED is called LEED v4. LEED v4 takes a more performance-based approach to design, operations and maintenance that calls for measurable results throughout a project's life cycle.

Check our website for the latest news on BREEAM, LEED and the European norms and regulations.

BREEAM®



TECHNICAL SPECIFICATIONS FABRICS

INTERIOR

Helioscreen interior fabrics, filtering daylight, avoiding glare

Star

OF 1% / 3% / 7%

TR01A

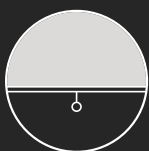
FABRIC CODE

TR03A

TR07A

Combine effectiveness and beauty.
Ideal for finding the right combination
in visual and thermal comfort.

For interior.



Star

OF 1% / 3% / 7%

TR01A

TR03A

TR07A

FABRIC CODE

Yarn

Technical specifications	Average Values	Standard
Titer	115 tex	ISO 1889 (2009)
Weighted composition	Glass 34%, PVC 66%	ISO 3801 (1977)
Diameter	0.29 mm	
Environment		Oekotex standard 100



Fabric

Type of fabric	PVC-coated fiberglass fabric
Weave pattern	satin weave
Widths	fabric on rolls: 2500 mm (tolerance -0%, +5%)
Roll length (nominally)	25 m

Technical specifications	Average Values			Standard
	OF 1%	OF 3%	OF 7% (on demand)	
Thickness	0.61 mm	0.60 mm	0.60 mm	ISO/DIS 5084.2 (1996)
Mass	463 g/m ²	435 g/m ²	395 g/m ²	ISO 3801 (1977)
Fire resistance	M1	M1	M1	NF P92-503 (1995)
	FR	FR	FR	NFPA 701 (2010)
Volatile organic compounds (voc)	Class 1	Class 1	Class 1	EN 13773
	complies	complies	complies	DIBt (June 2004)
	complies	complies	complies	AgBB (March 2008)
	complies	complies	complies	AFSSET (2006)
	complies	complies	complies	GREENGUARD
complies	complies	complies	GREENGUARD Children & School	
Breaking strength warp/weft	210 daN / 120 daN	190 daN / 100 daN	220daN / 96 daN	ISO 13934-1 (1999)
Elongation at break warp/weft	4,4% / 4,2%	3,6% / 3,6%	3,8% / 3%	ISO 13934-1 (1999)
Tear resistancewarp/weft	6,1 daN / 5,3 daN	5,3 daN / 7,8 daN	3,8 daN / 5,4 daN	ISO 4674 part 1 method A (2003)
Acoustics	Qw: 0,25			ISO 354:2003
Colorfastness (white excluded)	7-8 scale of blue	7-8 scale of blue	7-8 scale of blue	ISO 105 B02 (1994)
Air porosity	465 l/m ² /sec	760 l/m ² /sec	1190 l/m ² /sec	ISO/DIS 9237 (1995)

Processing

General - specifications are purely indicative and may not be considered as binding. Colors may vary from the samples shown.

Cutting	crush or ultrasonic; railroad or width out of roll width
Welding	thermal, HF, ultrasonic, sewing
Cleaning	remove dust from the fabric surface, then wipe gently with a humid soft sponge while using a mild detergent

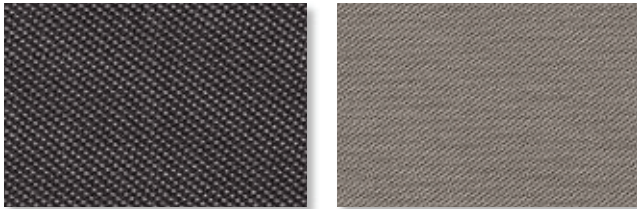
Star

OF 1%

TR01A

118116 macchiato A / B

Width: 2500 mm



Solar Heat & Light Control Properties

	Ts	Rs	As	Tv	TVdiff	TVdir	Tuv	TVdif-h	Glare control
A	3.2	9.3	876	3.0	1.2	1.8	2.3	2.4	Class 3
B	3.2	24.9	71.9	3.0	1.2	1.8	2.3	2.4	Class 3

g_{tot}

	A	B	C	D
	int.	int.	int.	int.
A Values	0.66	0.65	0.54	0.30
A Classes	0	0	0	2
B Values	0.57	0.57	0.49	0.29
B Classes	0	0	1	2

118118 night

Width: 2500 mm



Solar Heat & Light Control Properties

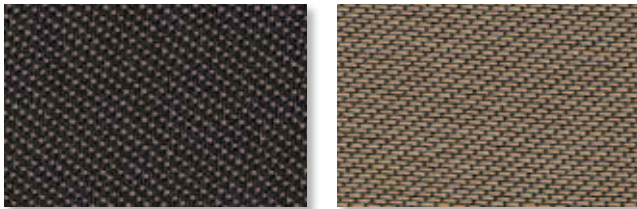
	Ts	Rs	As	Tv	TVdiff	TVdir	Tuv	TVdif-h	Glare control
	1.3	5.8	92.9	1.3	0.3	0.9	1.3	1.0	Class 3

g_{tot}

	A	B	C	D
	int.	int.	int.	int.
Values	0.68	0.66	0.55	0.30
Classes	0	0	0	2

118126 gold A / B

Width: 2500 mm



Solar Heat & Light Control Properties

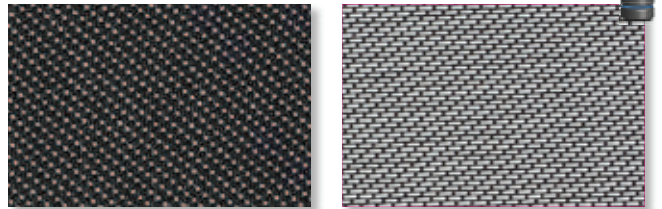
	Ts	Rs	As	Tv	TVdiff	TVdir	Tuv	TVdif-h	Glare control
A	2.0	9.0	89.0	1.8	0.8	1.0	1.4	1.4	Class 3
B	2.0	22.2	75.7	1.8	0.8	1.0	1.4	1.4	Class 3

g_{tot}

	A	B	C	D
	int.	int.	int.	int.
A Values	0.66	0.65	0.54	0.30
A Classes	0	0	0	2
B Values	0.58	0.58	0.50	0.29
B Classes	0	0	0	2

118150 dusk A / B

Width: 2500 mm



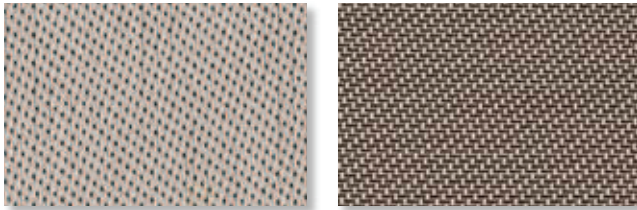
Solar Heat & Light Control Properties

	Ts	Rs	As	Tv	TVdiff	TVdir	Tuv	TVdif-h	Glare control
A	2.0	11.3	86.6	1.9	0.8	1.1	1.4	1.5	Class 3
B	2.0	32.2	65.7	1.9	0.8	1.1	1.4	1.5	Class 3

g_{tot}

	A	B	C	D
	int.	int.	int.	int.
A Values	0.65	0.64	0.53	0.30
A Classes	0	0	0	2
B Values	0.53	0.53	0.46	0.28
B Classes	0	0	1	2

127114 cappuccino A / B
Width: 2500 mm



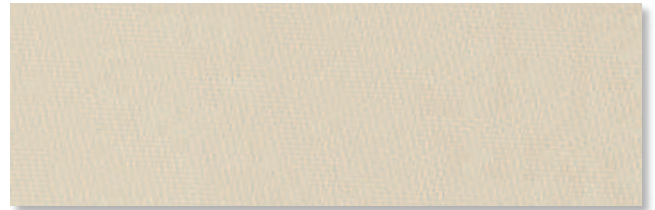
Solar Heat & Light Control Properties

	Ts	Rs	As	Tv	TVdiff	TVdir	Tuv	TVdif-h	Glare control
A	9.6	42.2	48.1	8.7	7.6	1.1	1.7	7.6	Class 1
B	9.6	21.3	69.0	8.7	7.6	1.1	1.7	7.6	Class 1

gtot

	A	B	C	D
	int.	int.	int.	int.
A Values	0.48	0.48	0.43	0.27
A Classes	1	1	1	2
B Values	0.60	0.59	0.50	0.29
B Classes	0	0	0	2

127127 ivory
Width: 2500 mm



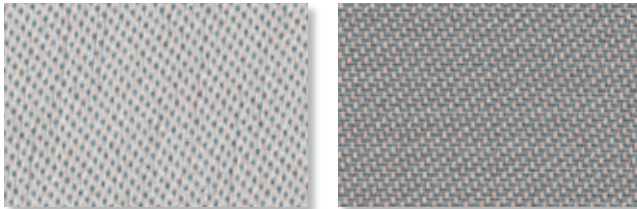
Solar Heat & Light Control Properties

	Ts	Rs	As	Tv	TVdiff	TVdir	Tuv	TVdif-h	Glare control
	24.8	59.4	15.7	24.1	22.7	1.4	2.0	21.3	Class 1

gtot

	A	B	C	D
	int.	int.	int.	int.
Values	0.40	0.41	0.38	0.26
Classes	1	1	1	2

150108 iron A / B
Width: 2500 mm



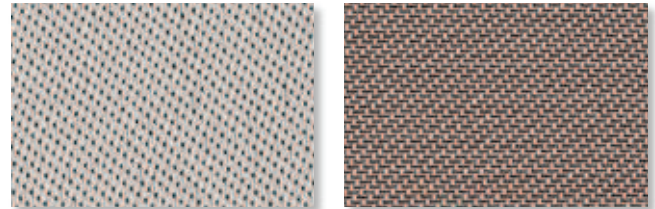
Solar Heat & Light Control Properties

	Ts	Rs	As	Tv	TVdiff	TVdir	Tuv	TVdif-h	Glare control
A	10.4	54.6	34.9	8.3	7.0	1.3	1.8	7.2	Class 1
B	10.5	54.7	34.10	8.4	7.1	1.3	1.8	7.3	Class 1

gtot

	A	B	C	D
	int.	int.	int.	int.
A Values	0.41	0.42	0.39	0.26
A Classes	1	1	1	2
B Values	0.52	0.52	0.46	0.28
B Classes	0	0	1	2

150114 alcantara A / B
Width: 2500 mm



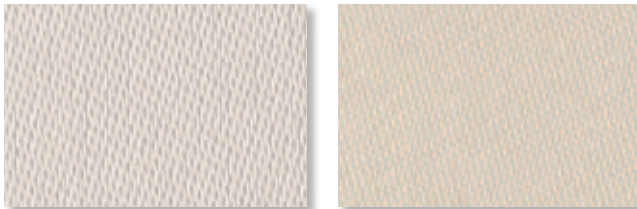
Solar Heat & Light Control Properties

	Ts	Rs	As	Tv	TVdiff	TVdir	Tuv	TVdif-h	Glare control
A	7.9	50.7	41.2	7.2	5.9	1.3	1.8	6.2	Class 1
B	7.9	25.8	66.2	7.2	5.9	1.3	1.8	6.2	Class 1

gtot

	A	B	C	D
	int.	int.	int.	int.
A Values	0.43	0.44	0.40	0.26
A Classes	1	1	1	2
B Values	0.57	0.57	0.49	0.29
B Classes	0	0	1	2

150116 desert A / B
Width: 2500 mm



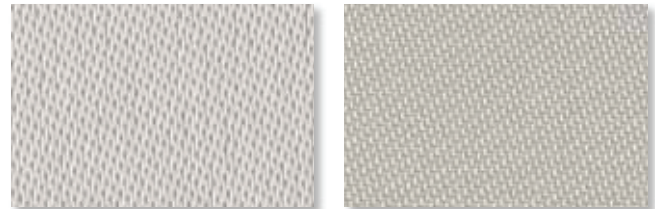
Solar Heat & Light Control Properties

	Ts	Rs	As	Tv	TVdiff	TVdir	Tuv	TVdif-h	Glare control
A	18.6	64.4	17.0	17.1	15.4	1.6	2.2	14.9	Class 1
B	18.6	59.5	21.9	17.1	15.4	1.6	2.2	14.9	Class 1

gtot

	A	B	C	D
	int.	int.	int.	int.
A Values	0.36	0.38	0.36	0.25
A Classes	1	1	1	2
B Values	0.39	0.40	0.38	0.26
B Classes	1	1	1	2

150117 silver A / B
Width: 2500 mm



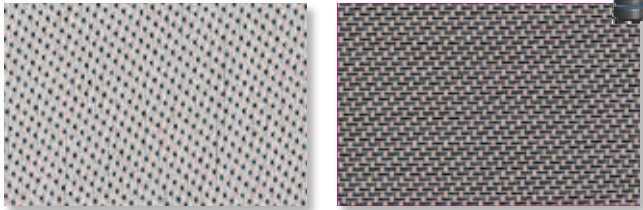
Solar Heat & Light Control Properties

	Ts	Rs	As	Tv	TVdiff	TVdir	Tuv	TVdif-h	Glare control
A	15.3	59.8	24.9	13.9	12.5	1.4	2.0	12.2	Class 1
B	15.3	47.9	36.8	13.9	12.5	1.4	2.0	12.2	Class 1

gtot

	A	B	C	D
	int.	int.	int.	int.
A Values	0.38	0.40	0.38	0.26
A Classes	1	1	1	2
B Values	0.45	0.46	0.41	0.27
B Classes	1	1	1	2

150118 pewter A / B
Width: 2500 mm



Solar Heat & Light Control Properties

	Ts	Rs	As	Tv	TVdiff	TVdir	Tuv	TVdif-h	Glare control
A	7.4	50.1	42.4	71	5.7	1.4	1.9	6.1	Class 1
B	7.4	23.5	69.0	71	5.7	1.4	1.9	6.1	Class 1

gtot

	A	B	C	D
	int.	int.	int.	int.
A Values	0.43	0.44	0.41	0.26
A Classes	1	1	1	2
B Values	0.58	0.58	0.49	0.29
B Classes	0	0	1	2

150126 sahara A / B
Width: 2500 mm



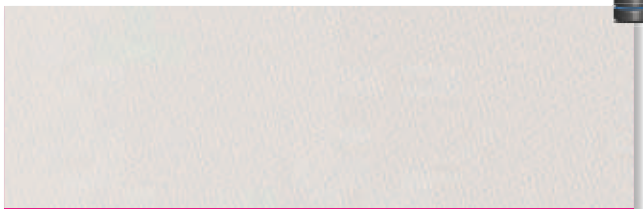
Solar Heat & Light Control Properties

	Ts	Rs	As	Tv	TVdiff	TVdir	Tuv	TVdif-h	Glare control
A	15.5	62.3	22.2	13.8	12.6	1.2	1.7	12.1	Class 1
B	15.5	52.5	31.9	13.8	12.6	1.2	1.7	12.1	Class 1

gtot

	A	B	C	D
	int.	int.	int.	int.
A Values	0.37	0.39	0.37	0.25
A Classes	1	1	1	2
B Values	0.43	0.43	0.40	0.26
B Classes	1	1	1	2

150150 snow
Width: 2500 mm



Solar Heat & Light Control Properties

	Ts	Rs	As	Tv	TVdiff	TVdir	Tuv	TVdif-h	Glare control
	18.9	69.0	12.0	18.2	17.3	0.9	1.3	16.1	Class 1

gtot

	A	B	C	D
	int.	int.	int.	int.
Values	0.33	0.35	0.35	0.25
Classes	2	1	1	2

Star OF 3%

TR03A

118116 **macchiato** A / B
Width: 2500 mm



Solar Heat & Light Control Properties

	Ts	Rs	As	Tv	TVdiff	TVdir	Tuv	TVdif-h	Glare control
A	6.1	8.3	85.7	5.9	1.6	4.3	5.0	4.6	Class 3
B	6.1	21.0	72.9	5.9	1.6	4.3	5.0	4.6	Class 3

g_{tot}

	A	B	C	D
	int.	int.	int.	int.
A Values	0.67	0.65	0.54	0.30
A Classes	0	0	0	2
B Values	0.60	0.59	0.50	0.29
B Classes	0	0	0	2

118118 **night**
Width: 2500 mm



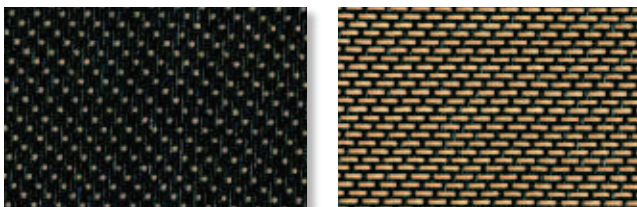
Solar Heat & Light Control Properties

	Ts	Rs	As	Tv	TVdiff	TVdir	Tuv	TVdif-h	Glare control
	3.7	4.2	92.1	3.8	0.6	3.1	3.8	2.8	Class 3

g_{tot}

	A	B	C	D
	int.	int.	int.	int.
Values	0.69	0.67	0.55	0.31
Classes	0	0	0	2

118126 **gold** A / B
Width: 2500 mm



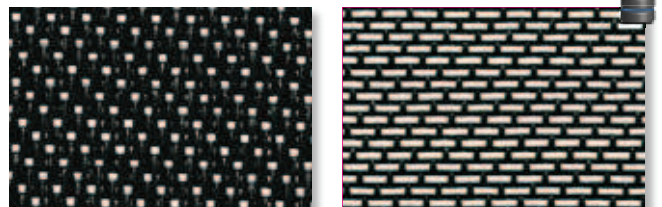
Solar Heat & Light Control Properties

	Ts	Rs	As	Tv	TVdiff	TVdir	Tuv	TVdif-h	Glare control
A	4.7	7.8	87.5	4.6	1	3.6	4.3	3.5	Class 3
B	4.7	19.6	75.7	4.6	1	3.6	4.3	3.5	Class 3

g_{tot}

	A	B	C	D
	int.	int.	int.	int.
A Values	0.67	0.66	0.54	0.30
A Classes	0	0	0	2
B Values	0.60	0.60	0.50	0.29
B Classes	0	0	0	2

118150 **dusk** A / B
Width: 2500 mm



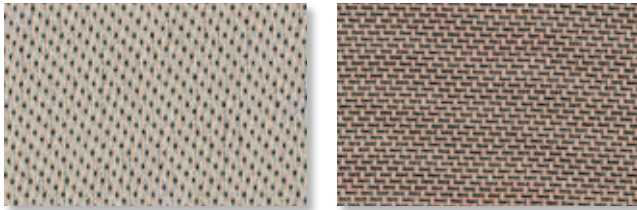
Solar Heat & Light Control Properties

	Ts	Rs	As	Tv	TVdiff	TVdir	Tuv	TVdif-h	Glare control
A	5.6	8.7	85.7	5.6	1.6	4	4.9	4.4	Class 3
B	5.6	24.8	69.6	5.6	1.6	4	4.9	4.4	Class 3

g_{tot}

	A	B	C	D
	int.	int.	int.	int.
A Values	0.67	0.65	0.54	0.30
A Classes	0	0	0	2
B Values	0.57	0.57	0.49	0.29
B Classes	0	0	1	2

127114 cappuccino A / B
Width: 2500 mm



Solar Heat & Light Control Properties

	Ts	Rs	As	Tv	TVdiff	TVdir	Tuv	TVdif-h	Glare control
A	13.5	42.3	44.2	12.6	9.1	3.5	4.4	10.7	Class 1
B	13.5	24.7	61.7	12.6	9.1	3.5	4.4	10.7	Class 1

gtot

	A	B	C	D
	int.	int.	int.	int.
A Values	0.48	0.49	0.43	0.27
A Classes	1	1	1	2
B Values	0.59	0.58	0.49	0.29
B Classes	0	0	1	2

127127 ivory
Width: 2500 mm



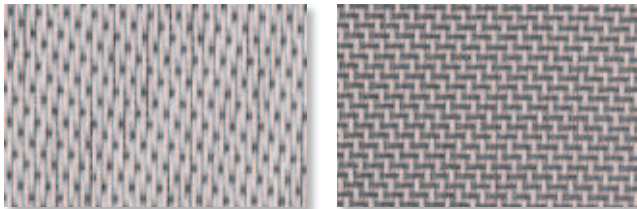
Solar Heat & Light Control Properties

	Ts	Rs	As	Tv	TVdiff	TVdir	Tuv	TVdif-h	Glare control
	20.2	63.0	16.8	19.8	16.8	3	3.7	17.2	Class 1

gtot

	A	B	C	D
	int.	int.	int.	int.
Values	0.37	0.38	0.37	0.25
Classes	1	1	1	2

150108 iron A / B
Width: 2500 mm



Solar Heat & Light Control Properties

	Ts	Rs	As	Tv	TVdiff	TVdir	Tuv	TVdif-h	Glare control
A	16.2	48.5	35.3	15.6	10.7	4.9	5.8	13.1	Class 1
B	16.2	32.9	50.9	15.6	10.7	4.9	5.8	13.1	Class 1

gtot

	A	B	C	D
	int.	int.	int.	int.
A Values	0.45	0.46	0.41	0.27
A Classes	1	1	1	2
B Values	0.54	0.54	0.46	0.28
B Classes	0	0	1	2

150114 alcantara A / B
Width: 2500 mm



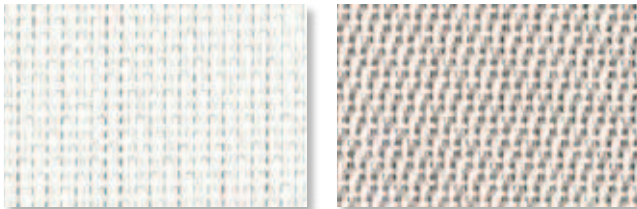
Solar Heat & Light Control Properties

	Ts	Rs	As	Tv	TVdiff	TVdir	Tuv	TVdif-h	Glare control
A	13.2	47.1	39.7	12.5	8.6	3.9	4.6	10.5	Class 1
B	13.2	27.9	58.9	12.5	8.6	3.9	4.6	10.5	Class 1

gtot

	A	B	C	D
	int.	int.	int.	int.
A Values	0.46	0.46	0.42	0.27
A Classes	1	1	1	2
B Values	0.57	0.56	0.48	0.28
B Classes	0	0	1	2

150116 desert A / B
Width: 2500 mm



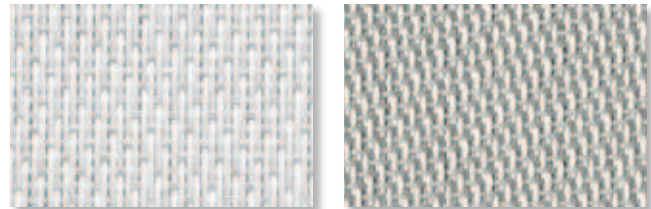
Solar Heat & Light Control Properties

	Ts	Rs	As	Tv	TVdiff	TVdir	Tuv	TVdif-h	Glare control
A	22	60.6	17.4	20.7	15.5	5.3	6.2	17.7	Class 0
B	22	56.2	21.8	20.7	15.5	5.3	6.2	17.7	Class 0

gtot

	A	B	C	D
	int.	int.	int.	int.
A Values	0.39	0.40	0.38	0.26
A Classes	1	1	1	2
B Values	0.41	0.42	0.39	0.26
B Classes	1	1	1	2

150117 silver A / B
Width: 2500 mm



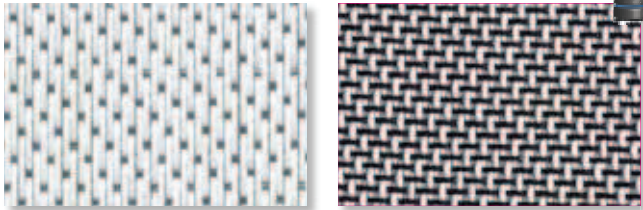
Solar Heat & Light Control Properties

	Ts	Rs	As	Tv	TVdiff	TVdir	Tuv	TVdif-h	Glare control
A	15.7	58.1	26.2	14	9.9	4	4.8	11.8	Class 1
B	15.7	49.2	35.1	14	9.9	4	4.8	11.8	Class 1

gtot

	A	B	C	D
	int.	int.	int.	int.
A Values	0.39	0.41	0.38	0.26
A Classes	1	1	1	2
B Values	0.45	0.45	0.41	0.27
B Classes	1	1	1	2

150118 pewter A / B
Width: 2500 mm



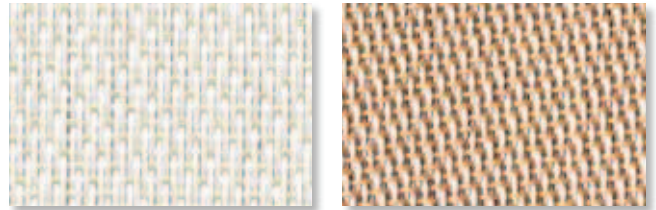
Solar Heat & Light Control Properties

	Ts	Rs	As	Tv	TVdiff	TVdir	Tuv	TVdif-h	Glare control
A	9.6	48.4	42.0	9.4	6.2	3.2	3.9	7.9	Class 1
B	9.6	26	64.4	9.4	6.2	3.2	3.9	7.9	Class 1

g_{tot}

	A	B	C	D
	int.	int.	int.	int.
A Values	0.44	0.45	0.41	0.27
A Classes	1	1	1	2
B Values	0.57	0.57	0.48	0.29
B Classes	0	0	1	2

150126 sahara A / B
Width: 2500 mm



Solar Heat & Light Control Properties

	Ts	Rs	As	Tv	TVdiff	TVdir	Tuv	TVdif-h	Glare control
A	171	60.1	22.8	15.3	12.4	2.9	3.5	13.2	Class 1
B	171	52.6	30.3	15.3	12.4	2.9	3.5	13.2	Class 1

g_{tot}

	A	B	C	D
	int.	int.	int.	int.
A Values	0.38	0.40	0.38	0.26
A Classes	1	1	1	2
B Values	0.43	0.44	0.40	0.26
B Classes	1	1	1	2

150150 snow
Width: 2500 mm



Solar Heat & Light Control Properties

	Ts	Rs	As	Tv	TVdiff	TVdir	Tuv	TVdif-h	Glare control
	23.5	63.7	12.8	23.3	18.7	4.6	5.5	20.0	Class 1

g_{tot}

	A	B	C	D
	int.	int.	int.	int.
Values	0.37	0.38	0.37	0.25
Classes	1	1	1	2

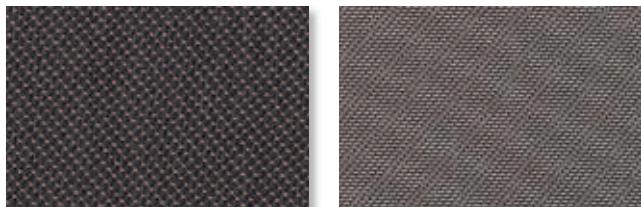
Star

OF 7%

available on demand

TR07A

118116 macchiato A / B
Width: 2500 mm



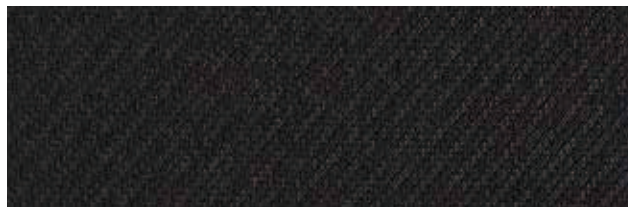
Solar Heat & Light Control Properties

	Ts	Rs	As	Tv	TVdiff	TVdir	Tuv	TVdif-h	Glare control
A	9.4	7.3	83.2	9.2	1.9	7.3	8.3	71	Class 1
B	9.4	17.5	73.1	9.2	1.9	7.3	8.3	71	Class 1

gtot

	A	B	C	D
	int.	int.	int.	int.
A Values	0.68	0.66	0.55	0.30
A Classes	0	0	0	2
B Values	0.62	0.61	0.51	0.29
B Classes	0	0	0	2

118118 night
Width: 2500 mm



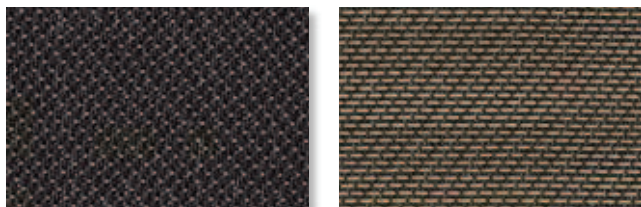
Solar Heat & Light Control Properties

	Ts	Rs	As	Tv	TVdiff	TVdir	Tuv	TVdif-h	Glare control
	7.3	5.17	87.5	7.2	1.0	6.2	7.2	5.5	Class 1

gtot

	A	B	C	D
	int.	int.	int.	int.
Values	0.69	0.67	0.55	0.30
Classes	0	0	0	2

118126 gold A / B
Width: 2500 mm



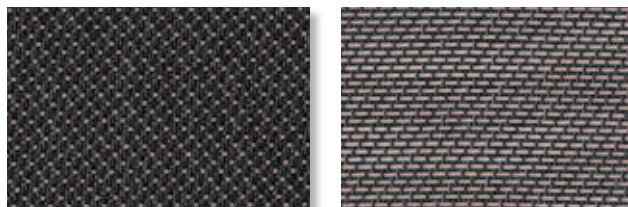
Solar Heat & Light Control Properties

	Ts	Rs	As	Tv	TVdiff	TVdir	Tuv	TVdif-h	Glare control
A	8.0	7.42	84.6	7.8	1.5	6.3	7.3	6.0	Class 1
B	8.0	16.3	75.7	7.8	1.5	6.3	7.3	6.0	Class 1

gtot

	A	B	C	D
	int.	int.	int.	int.
A Values	0.68	0.66	0.54	0.30
A Classes	0	0	0	2
B Values	0.63	0.61	0.52	0.29
B Classes	0	0	0	2

118150 dusk A / B
Width: 2500 mm



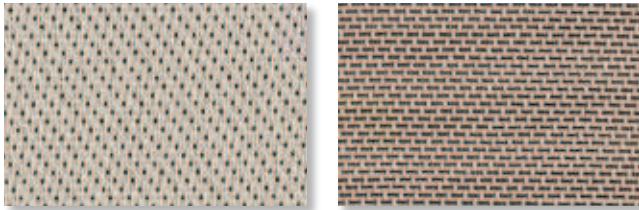
Solar Heat & Light Control Properties

	Ts	Rs	As	Tv	TVdiff	TVdir	Tuv	TVdif-h	Glare control
A	8.0	8.94	83.0	7.9	1.6	6.2	7.3	6.1	Class 1
B	8.0	22.4	69.5	7.9	1.6	6.2	7.3	6.1	Class 1

gtot

	A	B	C	D
	int.	int.	int.	int.
A Values	0.67	0.65	0.54	0.30
A Classes	0	0	0	2
B Values	0.59	0.58	0.50	0.29
B Classes	0	0	0	2

127114 cappuccino A / B
Width: 2500 mm



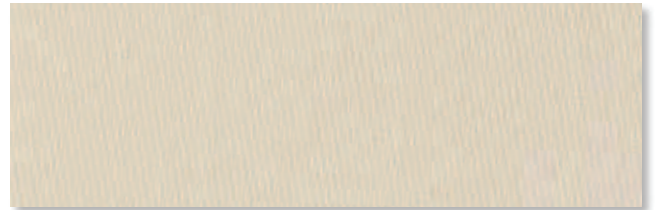
Solar Heat & Light Control Properties

	Ts	Rs	As	Tv	TVdiff	TVdir	Tuv	TVdif-h	Glare control
A	19.7	43.1	37.1	18.9	13.8	5.0	6.4	16.0	Class 1
B	19.7	28.4	51.8	18.9	13.8	5.0	6.4	16.0	Class 1

gtot

	A	B	C	D
	int.	int.	int.	int.
A Values	0.49	0.49	0.43	0.27
A Classes	1	1	1	2
B Values	0.57	0.56	0.48	0.28
B Classes	0	0	1	2

127127 ivory
Width: 2500 mm



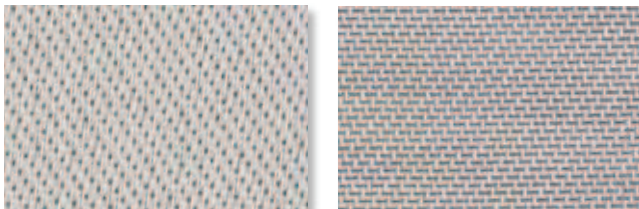
Solar Heat & Light Control Properties

	Ts	Rs	As	Tv	TVdiff	TVdir	Tuv	TVdif-h	Glare control
	30.5	54.9	14.5	29.8	24.6	5.2	6.6	25.8	Class 0

gtot

	A	B	C	D
	int.	int.	int.	int.
Values	0.43	0.43	0.40	0.26
Classes	1	1	1	2

150108 iron A / B
Width: 2500 mm



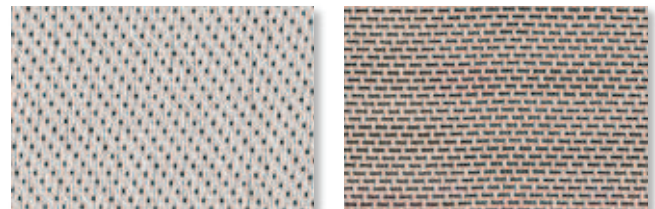
Solar Heat & Light Control Properties

	Ts	Rs	As	Tv	TVdiff	TVdir	Tuv	TVdif-h	Glare control
A	19.6	53.2	27.2	17.8	12.2	5.6	6.9	15.0	Class 0
B	19.6	39.9	40.4	17.8	12.2	5.6	6.9	15.0	Class 0

gtot

	A	B	C	D
	int.	int.	int.	int.
A Values	0.43	0.43	0.40	0.26
A Classes	1	1	1	2
B Values	0.51	0.50	0.44	0.27
B Classes	0	0	1	2

150114 alcantara A / B
Width: 2500 mm



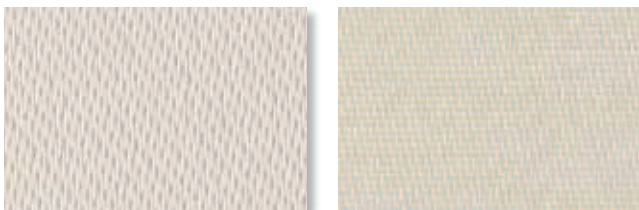
Solar Heat & Light Control Properties

	Ts	Rs	As	Tv	TVdiff	TVdir	Tuv	TVdif-h	Glare control
A	16.6	50.9	32.4	15.8	11.0	4.7	5.9	13.4	Class 1
B	16.6	33.7	49.6	15.8	11.0	4.7	5.9	13.4	Class 1

gtot

	A	B	C	D
	int.	int.	int.	int.
A Values	0.44	0.44	0.41	0.26
A Classes	1	1	1	2
B Values	0.54	0.53	0.46	0.28
B Classes	0	0	1	2

150116 desert A / B
Width: 2500 mm



Solar Heat & Light Control Properties

	Ts	Rs	As	Tv	TVdiff	TVdir	Tuv	TVdif-h	Glare control
A	25.3	60.2	14.4	24.0	18.5	5.5	6.7	20.6	Class 0
B	25.3	57.4	17.3	24.0	18.5	5.5	6.7	20.6	Class 0

gtot

	A	B	C	D
	int.	int.	int.	int.
A Values	0.39	0.40	0.38	0.26
A Classes	1	1	1	2
B Values	0.41	0.42	0.39	0.26
B Classes	1	1	1	2

150117 silver A / B
Width: 2500 mm



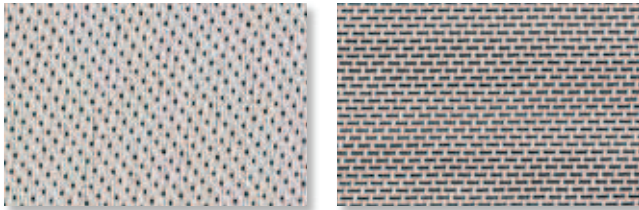
Solar Heat & Light Control Properties

	Ts	Rs	As	Tv	TVdiff	TVdir	Tuv	TVdif-h	Glare control
A	22.7	57.1	20.2	21.5	16.4	5.0	6.3	18.4	Class 1
B	22.7	49.6	27.7	21.5	16.4	5.0	6.3	18.4	Class 1

gtot

	A	B	C	D
	int.	int.	int.	int.
A Values	0.41	0.42	0.39	0.26
A Classes	1	1	1	2
B Values	0.45	0.45	0.41	0.27
B Classes	1	1	1	2

150118 pewter A / B
Width: 2500 mm



Solar Heat & Light Control Properties

	Ts	Rs	As	Tv	TVdiff	TVdir	Tuv	TVdif-h	Glare control
A	16.6	49.9	33.4	16.2	10.9	5.3	6.5	13.6	Class 0
B	16.6	31.6	51.7	16.2	10.9	5.3	6.5	13.6	Class 0

gtot

	A	B	C	D
	int.	int.	int.	int.
A Values	0.44	0.45	0.41	0.27
A Classes	1	1	1	2
B Values	0.55	0.54	0.47	0.28
B Classes	0	0	1	2

150126 sahara A / B
Width: 2500 mm



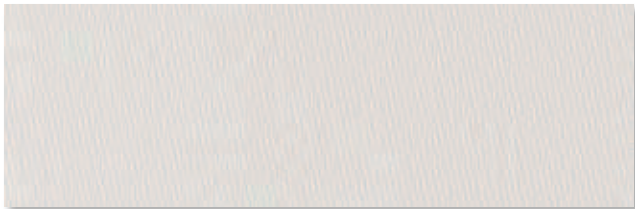
Solar Heat & Light Control Properties

	Ts	Rs	As	Tv	TVdiff	TVdir	Tuv	TVdif-h	Glare control
A	23.2	58.8	18.0	21.8	16.7	5.1	6.3	18.6	Class 0
B	23.2	53.1	23.7	21.8	16.7	5.1	6.3	18.6	Class 0

gtot

	A	B	C	D
	int.	int.	int.	int.
A Values	0.40	0.41	0.38	0.26
A Classes	1	1	1	2
B Values	0.43	0.44	0.40	0.26
B Classes	1	1	1	2

150150 snow
Width: 2500 mm



Solar Heat & Light Control Properties

	Ts	Rs	As	Tv	TVdiff	TVdir	Tuv	TVdif-h	Glare control
	25.0	63.4	11.5	24.3	19.5	4.7	5.9	20.9	Class 1

gtot

	A	B	C	D
	int.	int.	int.	int.
Values	0.38	0.39	0.37	0.25
Classes	1	1	1	2

Natte

OF 5% / 10%

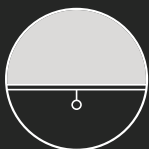
TN05A

FABRIC CODE

TN10A

A long lasting fabric, with outstanding performances for filtering daylight without obstructing the view to the outside world.

For interior.



Natte

OF 5% / 10%

TN05A

TN10A

FABRIC CODE

Yarn

Technical specifications	Average Values	Standard
Titer	115 tex	ISO 1889 (2009)
Weighted composition	Glass 34%, PVC 66%	ISO 3801 (1977)
Diameter	0.29 mm	
Environment		Oekotex standard 100



Fabric

Type of fabric	PVC-coated fiberglass fabric
Weave pattern	basket weave
Widths	fabric on rolls: 2500 mm (tolerance -0%, +5%)
Roll length (nominally)	25 m

Technical specifications	Average Values		Standard
	OF 5%	OF 10%	
Thickness	0.60 mm	0.57 mm	ISO/DIS 5084.2 (1996)
Mass	441 g/m ²	400 g/m ²	ISO 3801 (1977)
Fire resistance	M1	M1	NF P92-503 (1995)
	FR	FR	NFPA 701 (2010)
		C-s3, d0	EN 13501-1 (2010)
	Class 1	Class 1	EN 13773
Volatile organic compounds (voc)	complies	complies	DIBt (June 2004)
	complies	complies	AgBB (March 2008)
	complies	complies	AFSSET (2006)
	complies	complies	GREENGUARD
	complies	complies	GREENGUARD Children & School
Breaking strength warp/weft	170 daN / 140 daN	150 daN / 140 daN	ISO 13934-1 (1999)
Elongation at break warp/weft	8,0% / 4,0%	4,2% / 4,6%	ISO 13934-1 (1999)
Tear resistancewarp/weft	6,8 daN / 8,0 daN	6 daN / 5,8 daN	ISO 4674 part 1 method A (2003)
Colorfastness (white excluded)	7 scale of blue	7 scale of blue	ISO 105 B02 (1994)
Air porosity	855 l/m ² /sec	1500 l/m ² /sec	ISO/DIS 9237 (1995)

Processing

General - specifications are purely indicative and may not be considered as binding. Colors may vary from the samples shown.

Cutting	crush or ultrasonic; railroad or width out of roll width
Welding	thermal, HF, ultrasonic, sewing
Cleaning	remove dust from the fabric surface, then wipe gently with a humid soft sponge while using a mild detergent

Natte

TN05A

OF 5%

118108 basalt
Width: 2500 mm



Solar Heat & Light Control Properties

	Ts	Rs	As	Tv	TVdiff	TVdir	Tuv	TVdif-h	Glare control
	6.7	9.8	83.5	6.2	0.6	5.6	6.1	4.7	Class 1

gtot

	A	B	C	D
	int.	int.	int.	int.
Values	0.66	0.65	0.54	0.30
Classes	0	0	0	2

118114 praline
Width: 2500 mm



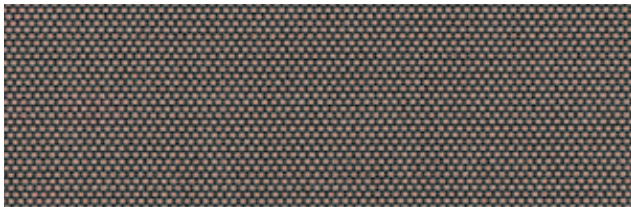
Solar Heat & Light Control Properties

	Ts	Rs	As	Tv	TVdiff	TVdir	Tuv	TVdif-h	Glare control
	6.5	6.5	87.1	6.2	0.5	5.7	6.2	4.6	Class 1

gtot

	A	B	C	D
	int.	int.	int.	int.
Values	0.68	0.66	0.55	0.30
Classes	0	0	0	2

118116 macchiato
Width: 2500 mm



Solar Heat & Light Control Properties

	Ts	Rs	As	Tv	TVdiff	TVdir	Tuv	TVdif-h	Glare control
	7.6	17.3	75.1	7.3	1.4	5.9	6.4	5.6	Class 1

gtot

	A	B	C	D
	int.	int.	int.	int.
Values	0.62	0.61	0.51	0.29
Classes	0	0	0	2

118118 night
Width: 2500 mm



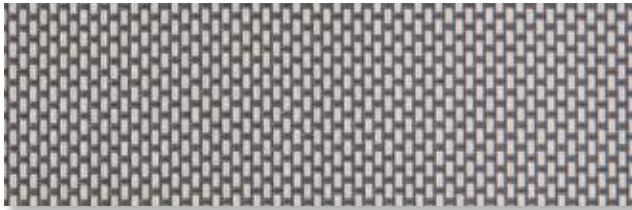
Solar Heat & Light Control Properties

	Ts	Rs	As	Tv	TVdiff	TVdir	Tuv	TVdif-h	Glare control
	6.0	5.6	88.4	5.8	0.4	5.4	5.8	4.4	Class 1

gtot

	A	B	C	D
	int.	int.	int.	int.
Values	0.69	0.67	0.55	0.30
Classes	0	0	0	2

127108 basics
Width: 2500 mm



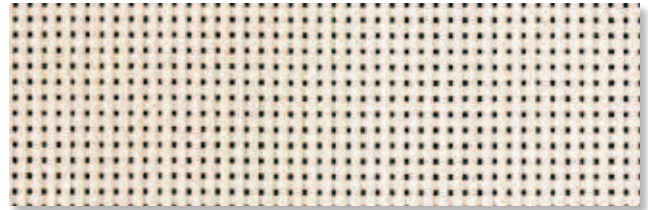
Solar Heat & Light Control Properties

	Ts	Rs	As	Tv	TVdiff	TVdir	Tuv	TVdif-h	Glare control
	16.9	37.8	45.3	14.5	8.9	5.6	6.2	12.0	Class 0

gtot

	A	B	C	D
	int.	int.	int.	int.
Values	0.51	0.51	0.45	0.28
Classes	0	0	1	2

127127 ivory
Width: 2500 mm



Solar Heat & Light Control Properties

	Ts	Rs	As	Tv	TVdiff	TVdir	Tuv	TVdif-h	Glare control
	27.8	56.4	15.7	26.9	21.5	5.4	6.0	23.1	Class 0

gtot

	A	B	C	D
	int.	int.	int.	int.
Values	0.42	0.42	0.39	0.26
Classes	1	1	1	2

150116 desert
Width: 2500 mm



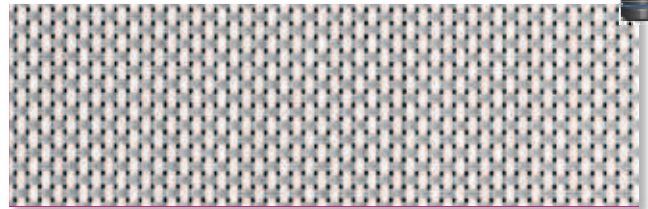
Solar Heat & Light Control Properties

	Ts	Rs	As	Tv	TVdiff	TVdir	Tuv	TVdif-h	Glare control
	22.7	58.6	18.7	20.3	14.1	6.2	6.7	17.2	Class 0

gtot

	A	B	C	D
	int.	int.	int.	int.
Values	0.40	0.41	0.38	0.26
Classes	1	1	1	2

150117 silver
Width: 2500 mm



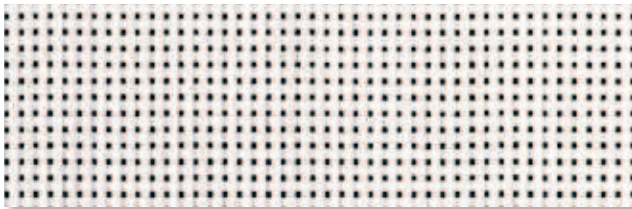
Solar Heat & Light Control Properties

	Ts	Rs	As	Tv	TVdiff	TVdir	Tuv	TVdif-h	Glare control
	20.2	50.6	29.1	18.4	11.4	7.0	7.6	15.3	Class 0

gtot

	A	B	C	D
	int.	int.	int.	int.
Values	0.44	0.45	0.41	0.26
Classes	1	1	1	2

150150 snow
Width: 2500 mm



Solar Heat & Light Control Properties

	Ts	Rs	As	Tv	TVdiff	TVdir	Tuv	TVdif-h	Glare control
	24.3	64.5	11.2	22.8	16.4	6.4	7.0	19.3	Class 0

gtot

	A	B	C	D
	int.	int.	int.	int.
Values	0.37	0.38	0.36	0.25
Classes	1	1	1	2

Natte

TN10A

OF 10%

118108 basalt
Width: 2500 mm



Solar Heat & Light Control Properties

	Ts	Rs	As	Tv	TVdiff	TVdir	Tuv	TVdif-h	Glare control
	12.2	10.1	77.7	12	0.9	11.1	11.7	9	Class 0

gtot

	A	B	C	D
	int.	int.	int.	int.
Values	0.67	0.65	0.54	0.30
Classes	0	0	0	2

118114 praline
Width: 2500 mm



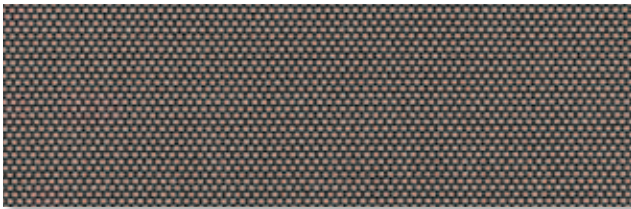
Solar Heat & Light Control Properties

	Ts	Rs	As	Tv	TVdiff	TVdir	Tuv	TVdif-h	Glare control
	11.4	6.7	11.1	4.7	0.7	10.5	11	8.3	Class 0

gtot

	A	B	C	D
	int.	int.	int.	int.
Values	0.69	0.67	0.55	0.30
Classes	0	0	0	2

118116 macchiato
Width: 2500 mm



Solar Heat & Light Control Properties

	Ts	Rs	As	Tv	TVdiff	TVdir	Tuv	TVdif-h	Glare control
	14.2	20.6	65.2	13.8	3.0	10.8	11.5	10.7	Class 0

gtot

	A	B	C	D
	int.	int.	int.	int.
Values	0.61	0.60	0.50	0.29
Classes	0	0	0	2

118118 night
Width: 2500 mm



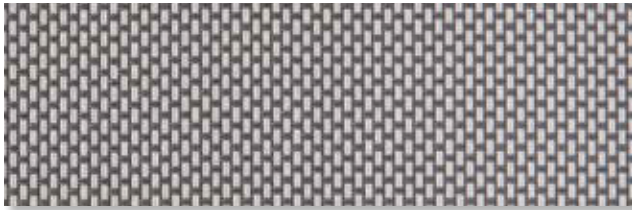
Solar Heat & Light Control Properties

	Ts	Rs	As	Tv	TVdiff	TVdir	Tuv	TVdif-h	Glare control
	10.3	4.5	85.2	10.3	0.5	9.8	10.3	7.7	Class 1

gtot

	A	B	C	D
	int.	int.	int.	int.
Values	0.70	0.68	0.56	0.31
Classes	0	0	0	2

127108 basics
Width: 2500 mm



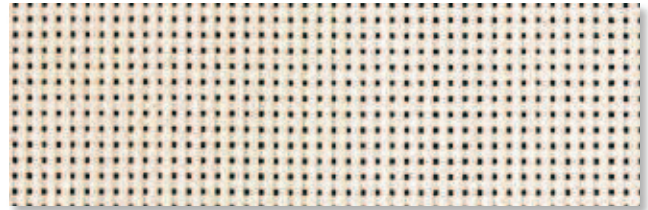
Solar Heat & Light Control Properties

	Ts	Rs	As	Tv	TVdiff	TVdir	Tuv	TVdif-h	Glare control
	17.6	32.6	49.8	16.9	5.2	11.7	12.4	13.3	Class 0

gtot

	A	B	C	D
	int.	int.	int.	int.
Values	0.55	0.54	0.47	0.28
Classes	0	0	1	2

127127 ivory
Width: 2500 mm



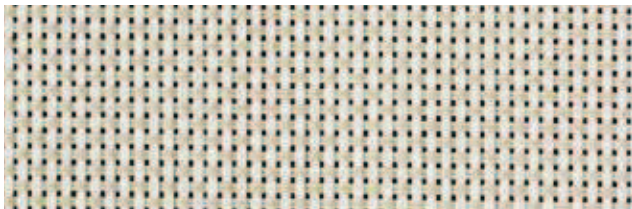
Solar Heat & Light Control Properties

	Ts	Rs	As	Tv	TVdiff	TVdir	Tuv	TVdif-h	Glare control
	25.2	58.8	16.0	24.0	14	10.1	10.7	19.9	Class 0

gtot

	A	B	C	D
	int.	int.	int.	int.
Values	0.40	0.41	0.38	0.26
Classes	1	1	1	2

150116 desert
Width: 2500 mm



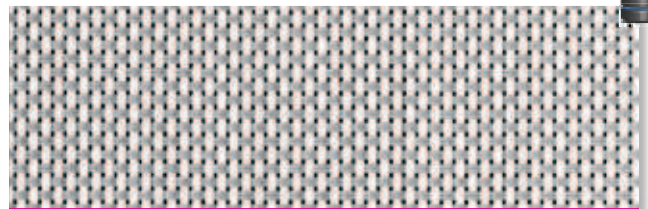
Solar Heat & Light Control Properties

	Ts	Rs	As	Tv	TVdiff	TVdir	Tuv	TVdif-h	Glare control
	23.7	55.5	20.8	21.8	11	10.8	11.5	17.8	Class 0

gtot

	A	B	C	D
	int.	int.	int.	int.
Values	0.42	0.43	0.39	0.26
Classes	1	1	1	2

150117 silver
Width: 2500 mm



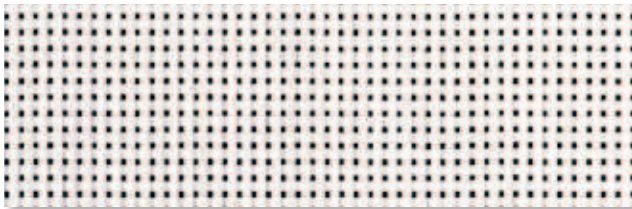
Solar Heat & Light Control Properties

	Ts	Rs	As	Tv	TVdiff	TVdir	Tuv	TVdif-h	Glare control
	19.6	47.8	32.6	17.3	7.1	10.2	10.8	13.9	Class 0

gtot

	A	B	C	D
	int.	int.	int.	int.
Values	0.46	0.46	0.42	0.27
Classes	1	1	1	2

150150 snow
Width: 2500 mm



Solar Heat & Light Control Properties

	Ts	Rs	As	Tv	TVdiff	TVdir	Tuv	TVdif-h	Glare control
	26.3	61.8	11.9	25.4	15.2	10.2	10.9	21.1	Class 0

gtot

	A	B	C	D
	int.	int.	int.	int.
Values	0.39	0.40	0.37	0.26
Classes	1	1	1	2



Panama Pro

OF 1% / 3% / 5% / 10%

BJ01A

FABRIC CODE

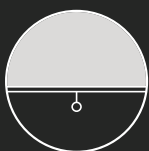
BJ03A

BJ05A

BJ10A

Economic, lightweight and an explicit textile look. Ideal for meeting different demands of openness factors with the same weaving pattern.

For interior.



Panama Pro

OF 1% / 3%

BJ01A
BJ03A
FABRIC CODE

Yarn

Technical specifications	Average Values	Standard
Titer	95 tex	ISO 1889 (2009)
Weighted composition	Glass 36%, PVC 64%	ISO 3801 (1977)
Diameter	0.28 mm	
Environment		Oekotex standard 100



Fabric

Type of fabric	PVC-coated fiberglass fabric	
Weave pattern	basket weave	
	OF 1%	OF 3%
Widths	fabric on rolls: 2500, 3100 mm	fabric on rolls: 2500, 3100 mm
Roll length (nominally)	30 m	30 m

Technical specifications	Average Values		Standard
	OF 1%	OF 3%	
Thickness	0.5 mm	0.5 mm	ISO/DIS 5084.2 (1996)
Mass	424 g/m ²	390 g/m ²	ISO 3801 (1977)
Fire resistance	M2	M2	UNE23.727-90
	FR	FR	NFPA 701 (2010)
Volatile organic compounds (voc)	Class 2	Class 2	EN 13773
	complies	complies	GREENGUARD
Breaking strength warp/weft	complies	complies	GREENGUARD Childeren & School
Breaking strength warp/weft	240 daN / 190 daN	250 daN / 150 daN	ISO 13934-1 (1999)
Elongation at break warp/weft	6,8% / 4,2%	6,6% / 3,2%	ISO 13934-1 (1999)
Tear resistance warp/weft	7,3 daN / 7,5 daN	6,9 daN / 9,3 daN	ISO 4674 part 1 method A (2003)
Colorfastness (white excluded)	7-8 scale of blue	7 scale of blue	ISO 105 B02 (1994)
Air porosity	185 l/m ² /sec	496 l/m ² /sec	ISO/DIS 9237 (1995)

Processing

General - specifications are purely indicative and may not be considered as binding. Colors may vary from the samples shown.

Cutting	crush or ultrasonic; railroad or width out of roll width
Welding	thermal, HF, ultrasonic, sewing
Cleaning	remove dust from the fabric surface, then wipe gently with a humid soft sponge while using a mild detergent

Panama Pro

OF 5% / 10%

BJ05A

BJ10A

FABRIC CODE

Yarn

Technical specifications	Average Values	Standard
Titer	95 tex	ISO 1889 (2009)
Weighted composition	Glass 36%, PVC 64%	ISO 3801 (1977)
Diameter	0.28 mm	
Environment		Oekotex standard 100



Fabric

Type of fabric	PVC-coated fiberglass fabric	
Weave pattern	basket weave	
	OF 5%	OF 10% (on demand)
Widths	fabric on rolls: 2500, 3100 mm Vertical vanes: 89, 127 mm	fabric on rolls: 2500, 3100 mm
Roll length (nominally)	30 m	30 m

Technical specifications	Average Values		Standard
	OF 5%	OF 10%	
Thickness	0.4 mm	0.5 mm	ISO/DIS 5084.2 (1996)
Mass	393 g/m ²	351 g/m ²	ISO 3801 (1977)
Fire resistance	M2	M2	UNE23.727-90
	FR	FR	NFPA 701 (2010)
Volatile organic compounds (voc)	Class 2	Class 2	EN 13773
	complies	complies	GREENGUARD
Breaking strength warp/weft	200 daN / 220 daN	200 daN / 170 daN	ISO 13934-1 (1999)
Elongation at break warp/weft	5,6% / 5,6%	5,4% / 3,8%	ISO 13934-1 (1999)
Tear resistance warp/weft	7,9 daN / 8,4 daN	6,8 daN / 9,9 daN	ISO 4674 part 1 method A (2003)
Colorfastness (white excluded)	7 scale of blue	7 scale of blue	ISO 105 B02 (1994)
Air porosity	721 l/m ² /sec	1180 l/m ² /sec	ISO/DIS 9237 (1995)

Processing

General - specifications are purely indicative and may not be considered as binding. Colors may vary from the samples shown

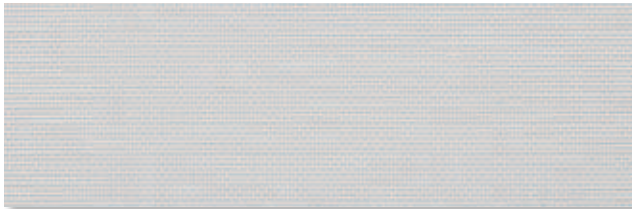
Cutting	crush or ultrasonic; railroad or width out of roll width
Welding	thermal, HF, ultrasonic, sewing
Cleaning	remove dust from the fabric surface, then wipe gently with a humid soft sponge while using a mild detergent

Panama Pro

OF 1%

BJ01A

101101 **white**
Widths: 2500, 3100 mm



Solar Heat & Light Control Properties

	Ts	Rs	As	Tv	TVdiff	TVdir	Tuv	TVdif-h	Glare control
	13.4	74.2	12.4	12.6	11.4	1.2	1.4	11.0	Class 1

gtot

	A	B	C	D
	int.	int.	int.	int.
Values	0.30	0.32	0.33	0.24
Classes	2	2	2	2

101116 **white-linen**
Widths: 2500, 3100 mm



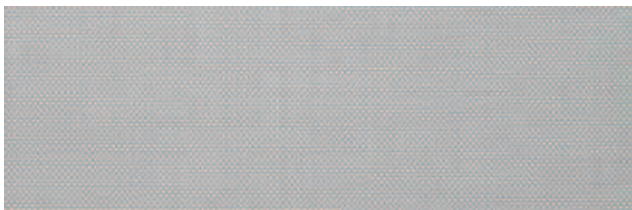
Solar Heat & Light Control Properties

	Ts	Rs	As	Tv	TVdiff	TVdir	Tuv	TVdif-h	Glare control
	12.6	66	21.4	10.3	9.1	1.2	1.3	9.0	Class 1

gtot

	A	B	C	D
	int.	int.	int.	int.
Values	0.34	0.36	0.36	0.25
Classes	2	1	1	2

101117 **white-pearl**
Widths: 2500, 3100 mm



Solar Heat & Light Control Properties

	Ts	Rs	As	Tv	TVdiff	TVdir	Tuv	TVdif-h	Glare control
	8.2	57.6	34.2	6.7	5.6	1.1	1.2	5.8	Class 1

gtot

	A	B	C	D
	int.	int.	int.	int.
Values	0.39	0.40	0.38	0.26
Classes	1	1	1	2

116116 **linen**
Widths: 2500, 3100 mm



Solar Heat & Light Control Properties

	Ts	Rs	As	Tv	TVdiff	TVdir	Tuv	TVdif-h	Glare control
	15.1	51.2	33.7	11.2	9.5	1.7	1.9	9.7	Class 1

gtot

	A	B	C	D
	int.	int.	int.	int.
Values	0.43	0.44	0.40	0.26
Classes	1	1	1	2

117117 pearl
Widths: 2500, 3100 mm



Solar Heat & Light Control Properties

	Ts	Rs	As	Tv	TVdiff	TVdir	Tuv	TVdif-h	Glare control
	5.6	31.2	63.2	3.8	2.5	1.3	1.7	3.2	Class 2

gtot

	A	B	C	D
	int.	int.	int.	int.
Values	0.54	0.54	0.47	0.28
Classes	0	0	1	2

118108 black-grey
Widths: 2500, 3100 mm



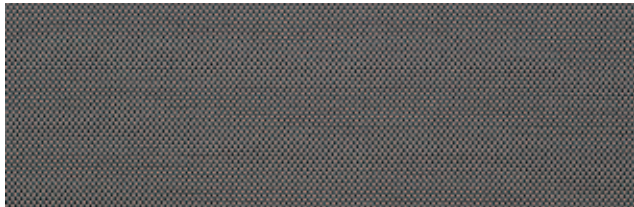
Solar Heat & Light Control Properties

	Ts	Rs	As	Tv	TVdiff	TVdir	Tuv	TVdif-h	Glare control
	1.8	8.1	90.1	1.7	0.2	1.5	1.6	1.3	Class 3

gtot

	A	B	C	D
	int.	int.	int.	int.
Values	0.67	0.65	0.54	0.30
Classes	0	0	0	2

118117 black-pearl
Widths: 2500, 3100 mm



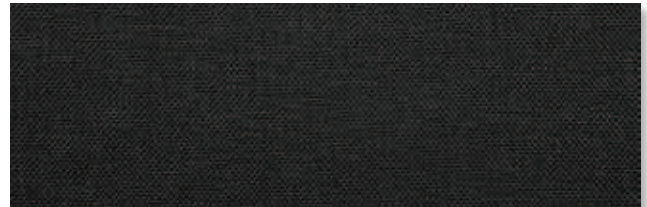
Solar Heat & Light Control Properties

	Ts	Rs	As	Tv	TVdiff	TVdir	Tuv	TVdif-h	Glare control
	1.0	12.4	86.6	0.8	0.2	0.6	0.6	0.6	Class 3

gtot

	A	B	C	D
	int.	int.	int.	int.
Values	0.64	0.63	0.53	0.30
Classes	0	0	0	2

118118 black
Widths: 2500, 3100 mm



Solar Heat & Light Control Properties

	Ts	Rs	As	Tv	TVdiff	TVdir	Tuv	TVdif-h	Glare control
	1.2	4.6	94.2	1.2	0.2	1.0	1.2	0.9	Class 3

gtot

	A	B	C	D
	int.	int.	int.	int.
Values	0.69	0.67	0.55	0.30
Classes	0	0	0	2

118633 black-cocoa
Widths: 2500, 3100 mm



Solar Heat & Light Control Properties

	Ts	Rs	As	Tv	TVdiff	TVdir	Tuv	TVdif-h	Glare control
	1.3	5.5	93.2	1.2	0.2	1.0	1.1	0.9	Class 3

gtot

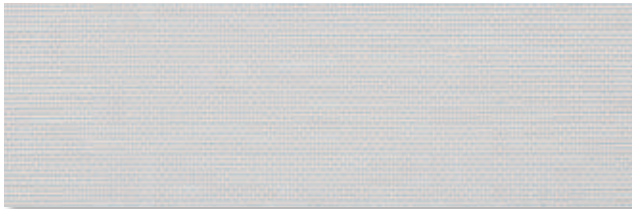
	A	B	C	D
	int.	int.	int.	int.
Values	0.68	0.67	0.55	0.30
Classes	0	0	0	2

Panama Pro

OF 3%

BJ03A

101101 **white**
Widths: 2500, 3100 mm



Solar Heat & Light Control Properties

	Ts	Rs	As	Tv	TVdiff	TVdir	Tuv	TVdif-h	Glare control
	16.5	71.7	11.8	15.7	12.2	3.5	3.9	13.4	Class 1

gtot

	A	B	C	D
	int.	int.	int.	int.
Values	0.32	0.34	0.34	0.25
Classes	2	2	2	2

101116 **white-linen**
Widths: 2500, 3100 mm



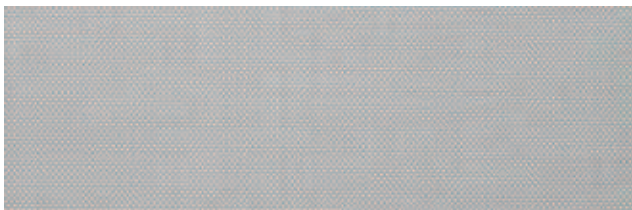
Solar Heat & Light Control Properties

	Ts	Rs	As	Tv	TVdiff	TVdir	Tuv	TVdif-h	Glare control
	15.8	64.6	19.6	13.6	10.4	3.2	3.6	11.6	Class 1

gtot

	A	B	C	D
	int.	int.	int.	int.
Values	0.36	0.37	0.36	0.25
Classes	1	1	1	2

101117 **white-pearl**
Widths: 2500, 3100 mm



Solar Heat & Light Control Properties

	Ts	Rs	As	Tv	TVdiff	TVdir	Tuv	TVdif-h	Glare control
	12.1	57.2	30.7	10.6	7.3	3.3	3.7	8.9	Class 1

gtot

	A	B	C	D
	int.	int.	int.	int.
Values	0.39	0.41	0.38	0.26
Classes	1	1	1	2

116116 **linen**
Widths: 2500, 3100 mm



Solar Heat & Light Control Properties

	Ts	Rs	As	Tv	TVdiff	TVdir	Tuv	TVdif-h	Glare control
	17.7	49.5	32.8	14.0	10.6	3.4	4.0	11.9	Class 1

gtot

	A	B	C	D
	int.	int.	int.	int.
Values	0.45	0.45	0.41	0.27
Classes	1	1	1	2

117117 **pearl**
Widths: 2500, 3100 mm



Solar Heat & Light Control Properties

	Ts	Rs	As	Tv	TVdiff	TVdir	Tuv	TVdif-h	Glare control
	8.4	31	60.6	6.6	3.3	3.3	3.8	5.4	Class 2

g_{tot}

	A	B	C	D
	int.	int.	int.	int.
Values	0.54	0.54	0.47	0.28
Classes	0	0	1	2

118108 **black-grey**
Widths: 2500, 3100 mm



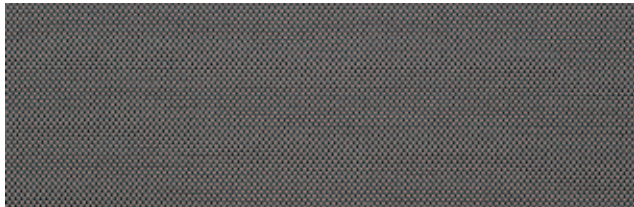
Solar Heat & Light Control Properties

	Ts	Rs	As	Tv	TVdiff	TVdir	Tuv	TVdif-h	Glare control
	4.1	7.2	88.7	4.0	0.5	3.5	4.0	3.0	Class 3

g_{tot}

	A	B	C	D
	int.	int.	int.	int.
Values	0.68	0.66	0.54	0.30
Classes	0	0	0	2

118117 **black-pearl**
Widths: 2500, 3100 mm



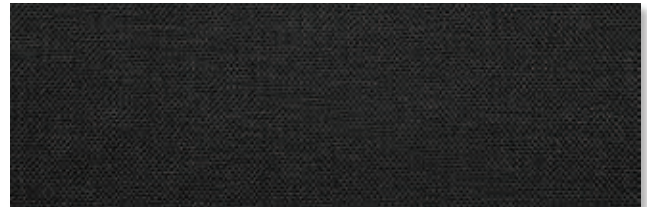
Solar Heat & Light Control Properties

	Ts	Rs	As	Tv	TVdiff	TVdir	Tuv	TVdif-h	Glare control
	3.4	11	85.6	3.1	0.6	2.5	2.9	2.4	Class 3

g_{tot}

	A	B	C	D
	int.	int.	int.	int.
Values	0.65	0.64	0.53	0.30
Classes	0	0	0	2

118118 **black**
Widths: 2500, 3100 mm



Solar Heat & Light Control Properties

	Ts	Rs	As	Tv	TVdiff	TVdir	Tuv	TVdif-h	Glare control
	4.5	4.3	91.2	4.4	0.5	3.9	4.4	3.3	Class 3

g_{tot}

	A	B	C	D
	int.	int.	int.	int.
Values	0.69	0.67	0.55	0.31
Classes	0	0	0	2

118633 **black-cocoa**
Widths: 2500, 3100 mm



Solar Heat & Light Control Properties

	Ts	Rs	As	Tv	TVdiff	TVdir	Tuv	TVdif-h	Glare control
	2.0	5.3	92.7	1.9	0.3	1.6	1.8	1.4	Class 3

g_{tot}

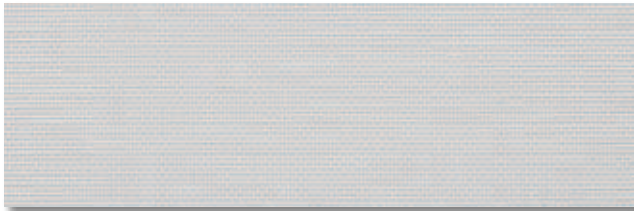
	A	B	C	D
	int.	int.	int.	int.
Values	0.68	0.67	0.55	0.30
Classes	0	0	0	2

Panama Pro

OF 5%

BJ05A

101101 **white**
Widths: 2500, 3100 mm



Solar Heat & Light Control Properties

	Ts	Rs	As	Tv	TVdiff	TVdir	Tuv	TVdif-h	Glare control
	18.7	70.1	11.2	17.9	11.3	6.6	7.1	14.9	Class 0

gtot

	A	B	C	D
	int.	int.	int.	int.
Values	0.33	0.35	0.34	0.25
Classes	2	1	2	2

101116 **white-linen**
Widths: 2500, 3100 mm



Solar Heat & Light Control Properties

	Ts	Rs	As	Tv	TVdiff	TVdir	Tuv	TVdif-h	Glare control
	16.5	61.7	21.8	13.9	9.2	4.7	5.2	11.7	Class 1

gtot

	A	B	C	D
	int.	int.	int.	int.
Values	0.37	0.39	0.37	0.25
Classes	1	1	1	2

101117 **white-pearl**
Widths: 2500, 3100 mm



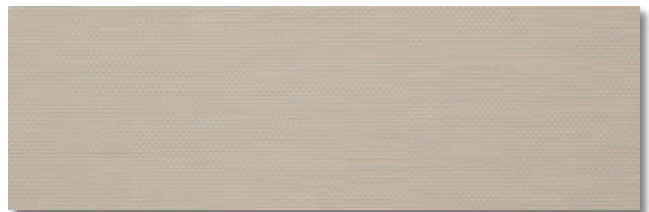
Solar Heat & Light Control Properties

	Ts	Rs	As	Tv	TVdiff	TVdir	Tuv	TVdif-h	Glare control
	12.1	51.6	36.3	10.3	5	5.3	5.8	8.4	Class 0

gtot

	A	B	C	D
	int.	int.	int.	int.
Values	0.43	0.44	0.40	0.26
Classes	1	1	1	2

116116 **linen**
Widths: 2500, 3100 mm



Solar Heat & Light Control Properties

	Ts	Rs	As	Tv	TVdiff	TVdir	Tuv	TVdif-h	Glare control
	18.3	49.8	31.9	14.5	8.8	5.7	6.2	12.0	Class 0

gtot

	A	B	C	D
	int.	int.	int.	int.
Values	0.45	0.45	0.41	0.27
Classes	1	1	1	2

117117 pearl
Widths: 2500, 3100 mm



Solar Heat & Light Control Properties

	Ts	Rs	As	Tv	TVdiff	TVdir	Tuv	TVdif-h	Glare control
	10.3	32.6	57.1	8.5	2.8	5.7	6.1	6.7	Class 1

g_{tot}

	A	B	C	D
	int.	int.	int.	int.
Values	0.54	0.53	0.46	0.28
Classes	0	0	1	2

118108 black-grey
Widths: 2500, 3100 mm



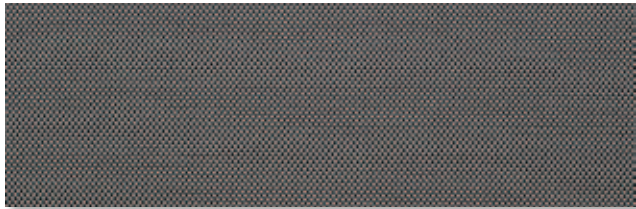
Solar Heat & Light Control Properties

	Ts	Rs	As	Tv	TVdiff	TVdir	Tuv	TVdif-h	Glare control
	6.1	10.1	83.8	5.6	0.7	4.9	5.3	4.2	Class 3

g_{tot}

	A	B	C	D
	int.	int.	int.	int.
Values	0.66	0.65	0.54	0.30
Classes	0	0	0	2

118117 black-pearl
Widths: 2500, 3100 mm



Solar Heat & Light Control Properties

	Ts	Rs	As	Tv	TVdiff	TVdir	Tuv	TVdif-h	Glare control
	6.4	15.1	78.5	6.1	0.8	5.3	5.7	4.6	Class 1

g_{tot}

	A	B	C	D
	int.	int.	int.	int.
Values	0.63	0.62	0.52	0.30
Classes	0	0	0	2

118118 black
Widths: 2500, 3100 mm



Solar Heat & Light Control Properties

	Ts	Rs	As	Tv	TVdiff	TVdir	Tuv	TVdif-h	Glare control
	7.4	3.7	88.9	7.3	0.5	6.8	7.3	5.5	Class 1

g_{tot}

	A	B	C	D
	int.	int.	int.	int.
Values	0.70	0.68	0.56	0.31
Classes	0	0	0	2

118633 black-cocoa
Widths: 2500, 3100 mm



Solar Heat & Light Control Properties

	Ts	Rs	As	Tv	TVdiff	TVdir	Tuv	TVdif-h	Glare control
	6.3	5.5	88.2	6.1	0.4	5.7	6.1	4.6	Class 1

g_{tot}

	A	B	C	D
	int.	int.	int.	int.
Values	0.69	0.67	0.55	0.30
Classes	0	0	0	2

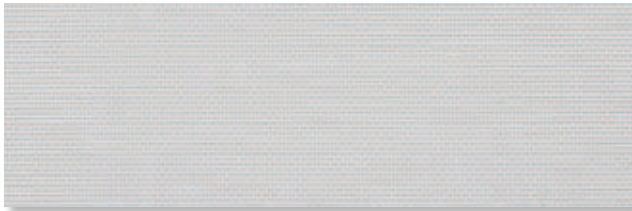
Panama Pro

OF 10%

BJ10A

available on demand

101101 **white**
Widths: 2500, 3100 mm



Solar Heat & Light Control Properties

	Ts	Rs	As	Tv	TVdiff	TVdir	Tuv	TVdif-h	Glare control
	21.6	67.2	11.2	20.7	12.1	8.6	9.1	17.1	Class 0

gtot

	A	B	C	D
	int.	int.	int.	int.
Values	0.35	0.36	0.35	0.25
Classes	1	1	1	2

101116 **white-linen**
Widths: 2500, 3100 mm



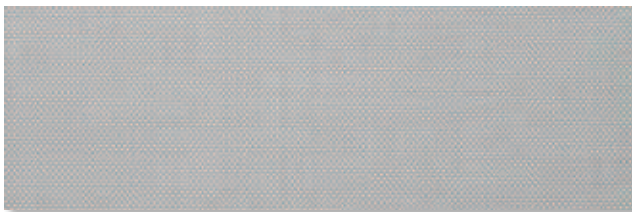
Solar Heat & Light Control Properties

	Ts	Rs	As	Tv	TVdiff	TVdir	Tuv	TVdif-h	Glare control
	12.9	58.7	28.4	19.6	10.7	8.9	9.5	16.1	Class 0

gtot

	A	B	C	D
	int.	int.	int.	int.
Values	0.39	0.40	0.38	0.26
Classes	1	1	1	2

101117 **white-pearl**
Widths: 2500, 3100 mm



Solar Heat & Light Control Properties

	Ts	Rs	As	Tv	TVdiff	TVdir	Tuv	TVdif-h	Glare control
	18.2	51.1	30.7	16.6	7.1	9.5	10.1	13.3	Class 0

gtot

	A	B	C	D
	int.	int.	int.	int.
Values	0.44	0.44	0.41	0.26
Classes	1	1	1	2

116116 **linen**
Widths: 2500, 3100 mm



Solar Heat & Light Control Properties

	Ts	Rs	As	Tv	TVdiff	TVdir	Tuv	TVdif-h	Glare control
	24.1	46.2	29.7	20.3	10.7	9.6	10.3	16.6	Class 0

gtot

	A	B	C	D
	int.	int.	int.	int.
Values	0.48	0.47	0.42	0.27
Classes	1	1	1	2

117117 **pearl**
Widths: 2500, 3100 mm



Solar Heat & Light Control Properties

	Ts	Rs	As	Tv	TVdiff	TVdir	Tuv	TVdif-h	Glare control
	14.0	31.3	54.7	12.0	3.6	8.4	9.0	9.4	Class 1

gtot

	A	B	C	D
	int.	int.	int.	int.
Values	0.55	0.54	0.47	0.28
Classes	0	0	1	2

118108 **black-grey**
Widths: 2500, 3100 mm



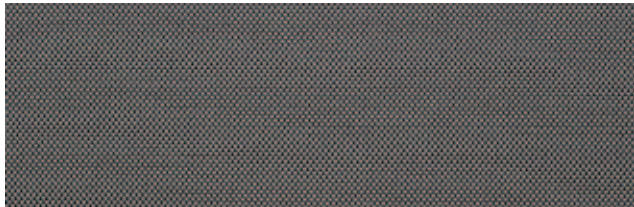
Solar Heat & Light Control Properties

	Ts	Rs	As	Tv	TVdiff	TVdir	Tuv	TVdif-h	Glare control
	10.8	9.4	79.8	10.3	0.9	9.4	9.9	7.7	Class 1

gtot

	A	B	C	D
	int.	int.	int.	int.
Values	0.67	0.65	0.54	0.30
Classes	0	0	0	2

118117 **black-pearl**
Widths: 2500, 3100 mm



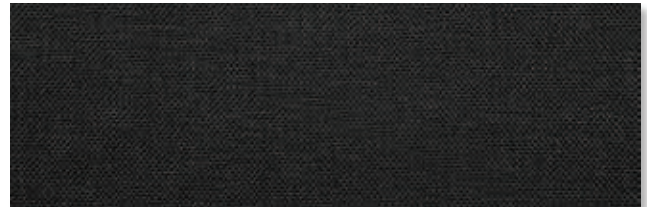
Solar Heat & Light Control Properties

	Ts	Rs	As	Tv	TVdiff	TVdir	Tuv	TVdif-h	Glare control
	10.6	13.1	76.3	10.3	1	9.3	9.8	7.8	Class 1

gtot

	A	B	C	D
	int.	int.	int.	int.
Values	0.65	0.63	0.53	0.30
Classes	0	0	0	2

118118 **black**
Widths: 2500, 3100 mm



Solar Heat & Light Control Properties

	Ts	Rs	As	Tv	TVdiff	TVdir	Tuv	TVdif-h	Glare control
	9.3	4.2	86.5	9.2	0.5	8.7	9.1	6.9	Class 1

gtot

	A	B	C	D
	int.	int.	int.	int.
Values	0.70	0.68	0.56	0.31
Classes	0	0	0	2

118633 **black-cocoa**
Widths: 2500, 3100 mm



Solar Heat & Light Control Properties

	Ts	Rs	As	Tv	TVdiff	TVdir	Tuv	TVdif-h	Glare control
	10.8	4.9	84.3	10.6	0.6	10.0	10.6	7.9	Class 1

gtot

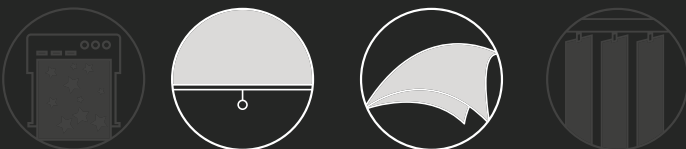
	A	B	C	D
	int.	int.	int.	int.
Values	0.70	0.68	0.55	0.31
Classes	0	0	0	2

Glare 3 OF 5%

BH05A FABRIC CODE

Especially designed to meet glare control class 3 with a 5% openness factor and brighter colors. BREEAM NL compliant.

For interior.



Glare 3 OF 5%

BH05A FABRIC CODE

Yarn

Technical specifications	Average Values	Standard
Titer	95 tex	ISO 1889 (2009)
Weighted composition	Warp: Glass 36%, PVC 64%	ISO 3801 (1977)
Diameter	0.28 mm	
Environment		Oekotex standard 100



Fabric

Type of fabric	PVC-coated fiberglass fabric
Weave pattern	basket weave
Widths	3100 mm (tolerance -0%, +5%)
Roll length (nominally)	30 m

Technical specifications	Average Values	Standard
Thickness	0.60 mm	ISO/DIS 5084.2 (1996)
Mass	389 g/m ²	ISO 3801 (1977)
Fire resistance	M2 FR	NF P92-503 (1995) NFPA 701 (2010)
Volatile organic compounds (voc)	complies complies	GREENGUARD GREENGUARD Children & School
Breaking strength	warp 170 daN, weft 150 daN	ISO 13934-1 (1999)
Elongation at break	warp 8,5%, weft 2,4%	ISO 13934-1 (1999)
Tear resistance	warp 7,4 daN, weft 6,2 daN	ISO 4674 part 1 method A (2003)
Colorfastness (white excluded)	7-8 scale of blue	ISO 105 B02 (1994)
Air porosity	797 l/m ² /sec	ISO/DIS 9237 (1995)

Processing

General - specifications are purely indicative and may not be considered as binding. Colors may vary from the samples shown.

Cutting	crush or ultrasonic; railroad or width out of roll width
Welding	thermal, HF, ultrasonic, sewing
Cleaning	remove dust from the fabric surface, then wipe gently with a humid soft sponge while using a mild detergent

Control annoying reflections

Sufficient daylight is of the utmost importance for a feeling of well-being for all human beings. But if the daylight entering a room is too intense, it can become annoying. Especially reflections in computer screens, smart boards, TV-screens and tablets can be a nuisance. Installing blinds with a glare control class 3 fabric can avoid this. In fact, the BREEAM version of the Netherlands even prescribes a glare control class 3 for sunblinds. Helioscreen has developed a special range of fabric with glare control class 3: Glare 3. Four dark colors with a lighter touch and a 5% openness factor for ideal view through.

- Ideal for offices and classrooms
- Complying to the highest BREEAM standards
- Special balanced weaving

118108 black-grey

Width: 3100 mm



Solar Heat & Light Control Properties

	Ts	Rs	As	Tv	TVdiff	TVdir	Tuv	TVdif-h	Glare control
	5.8	8.2	86.0	5.3	0.7	4.6	5.1	4.0	Class 3

g_{tot}

	A	B	C	D
	int.	int.	int.	int.
Values	0.67	0.66	0.54	0.30
Classes	0	0	0	2

118112 black-sand

Width: 3100 mm



Solar Heat & Light Control Properties

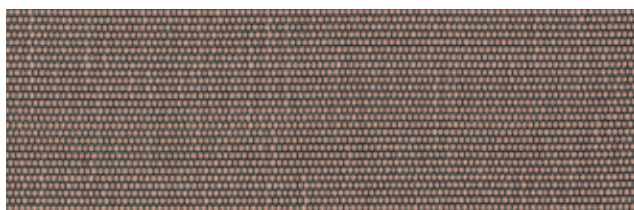
	Ts	Rs	As	Tv	TVdiff	TVdir	Tuv	TVdif-h	Glare control
	6.2	11.9	81.9	5.7	1.1	4.6	5.1	4.3	Class 3

g_{tot}

	A	B	C	D
	int.	int.	int.	int.
Values	0.65	0.64	0.53	0.30
Classes	0	0	0	2

118116 black-linen

Width: 3100 mm



Solar Heat & Light Control Properties

	Ts	Rs	As	Tv	TVdiff	TVdir	Tuv	TVdif-h	Glare control
	6.5	16.1	77.4	6.1	1.3	4.8	5.4	4.7	Class 3

g_{tot}

	A	B	C	D
	int.	int.	int.	int.
Values	0.63	0.62	0.52	0.29
Classes	0	0	0	2

118630 black-lotus

Width: 3100 mm



Solar Heat & Light Control Properties

	Ts	Rs	As	Tv	TVdiff	TVdir	Tuv	TVdif-h	Glare control
	7.1	13.5	79.4	6.5	1.9	4.6	5.1	5.1	Class 3

g_{tot}

	A	B	C	D
	int.	int.	int.	int.
Values	0.64	0.63	0.52	0.30
Classes	0	0	0	2

Panama Deco

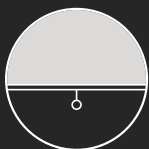
OF 3%

BD03A

FABRIC CODE

A decorative version of our well-known Panama fabric, giving a room that extra touch.

For interior.



Panama Deco

OF 3%

BD03A

FABRIC CODE

Yarn

Technical specifications	Average Values	Standard
Titer	95 tex	ISO 1889 (2009)
Weighted composition	Warp: Glass 36%, PVC 64%	ISO 3801 (1977)
Diameter	0.28 mm	
Environment		Oekotex standard 100



Fabric

Type of fabric	PVC-coated fiberglass fabric
Weave pattern	basket weave
Widths	3100 mm (tolerance -0%, +5%)
Roll length (nominally)	22 m

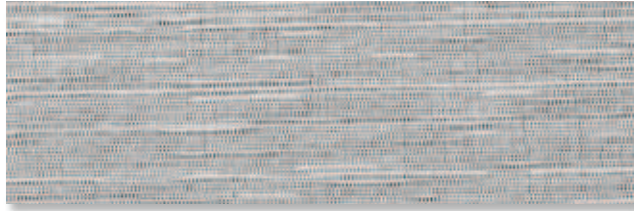
Technical specifications	Average Values	Standard
Thickness	0.70 mm	ISO/DIS 5084.2 (1996)
Mass	516 g/m ²	ISO 3801 (1977)
Fire resistance	M2 FR	NF P92-503 (1995) NFPA 701 (2010)
Breaking strength	warp 220 daN, weft 220 daN	ISO 13934-1 (1999)
Elongation at break	warp 7,8%, weft 2,8%	ISO 13934-1 (1999)
Tear resistance	warp 11 daN, weft 8,4 daN	ISO 4674 part 1 method A (2003)
Colorfastness (white excluded)	≥ 7 scale of blue	ISO 105 B02 (1994)
Air porosity	510 l/m ² /sec	ISO/DIS 9237 (1995)

Processing

General - specifications are purely indicative and may not be considered as binding. Colors may vary from the samples shown.

Cutting	crush or ultrasonic; do not railroad
Welding	thermal, HF, ultrasonic, sewing
Cleaning	remove dust from the fabric surface, then wipe gently with a humid soft sponge while using a mild detergent

101X31 celestine
Width: 3100 mm



Solar Heat & Light Control Properties

	Ts	Rs	As	Tv	TVdiff	TVdir	Tuv	TVdif-h	Glare control
	9.4	47.2	43.4	9.0	6.5	2.5	2.8	7.6	Class 1

gtot

	A	B	C	D
	int.	int.	int.	int.
Values	0.45	0.46	0.42	0.27
Classes	1	1	1	2

101X32 travertine
Width: 3100 mm



Solar Heat & Light Control Properties

	Ts	Rs	As	Tv	TVdiff	TVdir	Tuv	TVdif-h	Glare control
	12.4	56.4	31.2	11.6	9.3	2.3	2.6	10.0	Class 1

gtot

	A	B	C	D
	int.	int.	int.	int.
Values	0.40	0.41	0.39	0.26
Classes	1	1	1	2

117X33 dacite
Width: 3100 mm



Solar Heat & Light Control Properties

	Ts	Rs	As	Tv	TVdiff	TVdir	Tuv	TVdif-h	Glare control
	6.3	26.8	66.9	5.2	2.4	2.8	3.2	4.2	Class 2

gtot

	A	B	C	D
	int.	int.	int.	int.
Values	0.56	0.56	0.48	0.28
Classes	0	0	1	2

117X34 skarn
Width: 3100 mm



Solar Heat & Light Control Properties

	Ts	Rs	As	Tv	TVdiff	TVdir	Tuv	TVdif-h	Glare control
	5.5	27.4	67.1	4.6	2.3	2.3	2.6	3.7	Class 2

gtot

	A	B	C	D
	int.	int.	int.	int.
Values	0.56	0.56	0.48	0.28
Classes	0	0	1	2

118X35 obsidian
Width: 3100 mm



Solar Heat & Light Control Properties

	Ts	Rs	As	Tv	TVdiff	TVdir	Tuv	TVdif-h	Glare control
	3.5	9.2	87.3	3.5	0.6	2.9	3.3	2.7	Class 3

gtot

	A	B	C	D
	int.	int.	int.	int.
Values	0.66	0.65	0.54	0.30
Classes	0	0	0	2



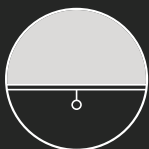
Impressions OF 4%

FN04A

FABRIC CODE

A polyester fabric with deep colors due to cationic treatment. Colors reminding us of dreamy holiday locations.

For interior.



Impressions

OF 4%

FN04A

FABRIC CODE

Yarn

Technical specifications	Average Values	Standard
Weighted composition	100% Polyester, 82% with cationic treatment	ISO 3801 (1977)
Environment		Oekotex standard 100



Fabric

Type of fabric	100% polyester fabric
Weave pattern	basket weave
Widths	3000 mm
Roll length (nominally)	30 m

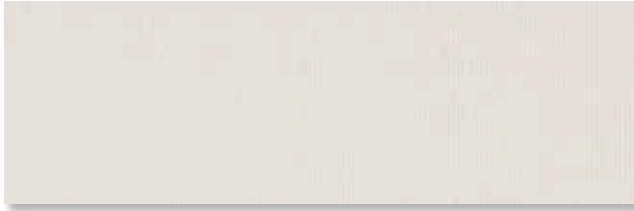
Technical specifications	Average Values	Standard
Thickness	0.70 mm	ISO/DIS 5084.2 (1996)
Mass	245 g/m ²	ISO 3801 (1977)
Fire resistance	FR	NFPA 701 (2010)
	B1	DIN 4102 (1998)
Breaking strength	warp 110 daN, weft 110 daN	ISO 13934-1 (1999)
Elongation at break	warp 35%, weft 27,5%	ISO 13934-1 (1999)
Tear resistance	warp 8,1 daN, weft 9,2 daN	ISO 4674 part 1 method A (2003)
Colorfastness (white excluded)	scale of blue ≥ 5	ISO 105 B02 (1994)
Air porosity	534 l/m ² /sec	ISO/DIS 9237 (1995)

Processing

General - specifications are purely indicative and may not be considered as binding. Colors may vary from the samples shown.

Cutting	crush or ultrasonic; do not railroad
Welding	thermal, HF, ultrasonic, sewing
Cleaning	Vacuum cleaning or using a soft cloth.

777001 digue
Width: 3000 mm



Solar Heat & Light Control Properties

	Ts	Rs	As	Tv	TVdiff	TVdir	Tuv	TVdif-h	Glare control
	36.2	55.8	8.0	36.9	33.0	3.9	13.3	32.3	Class 1

gtot

	A	B	C	D
	int.	int.	int.	int.
Values	0.44	0.43	0.39	0.26
Classes	1	1	1	2

777002 silver bay
Width: 3000 mm



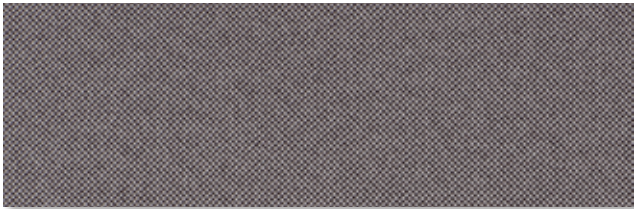
Solar Heat & Light Control Properties

	Ts	Rs	As	Tv	TVdiff	TVdir	Tuv	TVdif-h	Glare control
	28.6	48.2	23.2	21.2	17.9	3.3	10.2	18.4	Class 1

gtot

	A	B	C	D
	int.	int.	int.	int.
Values	0.47	0.47	0.42	0.27
Classes	1	1	1	2

777003 kaimu
Width: 3000 mm



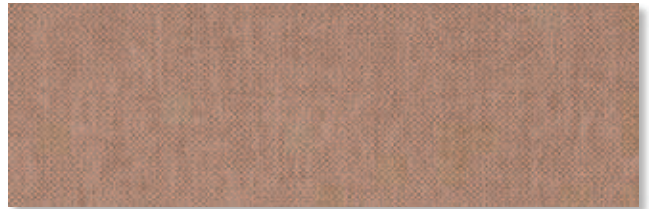
Solar Heat & Light Control Properties

	Ts	Rs	As	Tv	TVdiff	TVdir	Tuv	TVdif-h	Glare control
	22.3	37.4	40.3	9.1	5.9	3.2	6.8	7.6	Class 1

gtot

	A	B	C	D
	int.	int.	int.	int.
Values	0.52	0.52	0.45	0.28
Classes	0	0	1	2

777100 bondi
Width: 3000 mm



Solar Heat & Light Control Properties

	Ts	Rs	As	Tv	TVdiff	TVdir	Tuv	TVdif-h	Glare control
	25.7	42.4	32.1	13.8	9.8	4.0	9.3	11.7	Class 1

gtot

	A	B	C	D
	int.	int.	int.	int.
Values	0.50	0.49	0.44	0.27
Classes	0	1	1	2

777101 sailor
Width: 3000 mm



Solar Heat & Light Control Properties

	Ts	Rs	As	Tv	TVdiff	TVdir	Tuv	TVdif-h	Glare control
	20.4	34.5	45.1	6.2	3.1	3.1	6.4	5.0	Class 2

gtot

	A	B	C	D
	int.	int.	int.	int.
Values	0.54	0.53	0.46	0.28
Classes	0	0	1	2

777102 venus
Width: 3000 mm



Solar Heat & Light Control Properties

	Ts	Rs	As	Tv	TVdiff	TVdir	Tuv	TVdif-h	Glare control
	20.4	33.6	46.0	5.4	2.5	2.9	5.5	4.4	Class 2

gtot

	A	B	C	D
	int.	int.	int.	int.
Values	0.54	0.54	0.46	0.28
Classes	0	0	1	2

777400 mountain
Width: 3000 mm



Solar Heat & Light Control Properties

	Ts	Rs	As	Tv	TVdiff	TVdir	Tuv	TVdif-h	Glare control
	19.8	30.2	50.0	5.0	1.3	3.7	5.6	3.9	Class 3

gtot

	A	B	C	D
	int.	int.	int.	int.
Values	0.56	0.55	0.47	0.28
Classes	0	0	1	2

777401 volcano
Width: 3000 mm



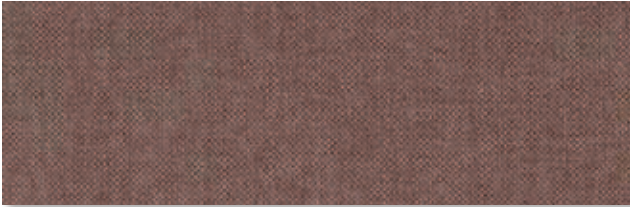
Solar Heat & Light Control Properties

	Ts	Rs	As	Tv	TVdiff	TVdir	Tuv	TVdif-h	Glare control
	19.4	29.6	51.0	4.5	1.1	3.4	5.2	3.5	Class 3

gtot

	A	B	C	D
	int.	int.	int.	int.
Values	0.57	0.55	0.48	0.28
Classes	0	0	1	2

777601 coconut
Width: 3000 mm



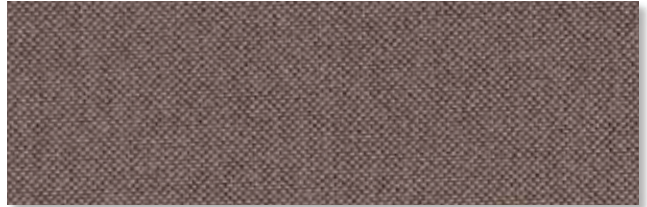
Solar Heat & Light Control Properties

	Ts	Rs	As	Tv	TVdiff	TVdir	Tuv	TVdif-h	Glare control
	21.0	35.6	43.4	6.3	3.2	3.1	6.4	5.1	Class 2

gtot

	A	B	C	D
	int.	int.	int.	int.
Values	0.53	0.53	0.46	0.28
Classes	0	0	1	2

777602 camargue
Width: 3000 mm



Solar Heat & Light Control Properties

	Ts	Rs	As	Tv	TVdiff	TVdir	Tuv	TVdif-h	Glare control
	21.8	36.4	41.8	7.3	4.2	3.1	6.6	6.0	Class 1

gtot

	A	B	C	D
	int.	int.	int.	int.
Values	0.53	0.52	0.45	0.28
Classes	0	0	1	2

DARKENING

Top quality 100% darkening fabrics

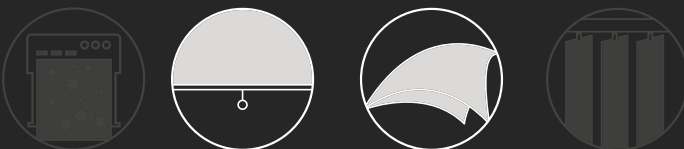
Opac 6000 OF 0%

ZZXX0

FABRIC CODE

Darkening fabric, only 0, 30mm thick and 100% light tight.

For interior.



Opac 6000 OF 0%

ZZXX0
FABRIC CODE

Fabric

Type of fabric	PVC-coated fiberglass fabric
Weave pattern	basket weave
Widths	1830 mm (tolerance -0%, +5%)
Roll length (nominally)	27 m

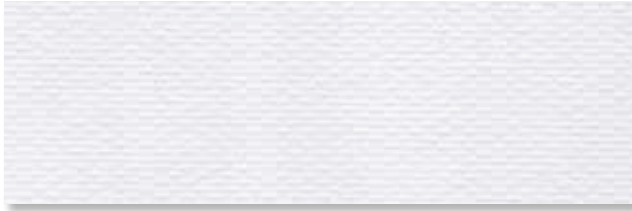
Technical specifications	Average Values	Standard
Composition	glassfiber fabric with double sided PVC-backing	
Widths	1830 mm (tolerance -0%, +5%)	
Roll length (nominally)	27 m	
Thickness	0.30 mm	ISO/DIS 5084.2 (1996)
Mass	400 g/m ²	ISO 3801 (1977)
Fire resistance	M1 FR	NF P92-503 (1995) NFPA 701 (2010)
Breaking strength	warp 82 daN, weft 68 daN	ISO 13934-1 (1999)
Elongation at break	warp 3,6%, weft 3,4%	ISO 13934-1 (1999)
Tear resistance	warp 1,3 daN, weft 0,9 daN	ISO 4674 part 1 method A (2003)
Colorfastness (white excluded)	6+ scale of blue	ISO 105 B02 (1994)

Processing

General - specifications are purely indicative and may not be considered as binding. Colors may vary from the samples shown.

Cutting	crush or ultrasonic; railroad or width out of roll width
Welding	thermal, HF, ultrasonic, sewing
Cleaning	remove dust from the fabric surface, then wipe gently with a humid soft sponge while using a mild detergent

101101 white
Width: 1830 mm



Solar Heat & Light Control Properties

	Ts	Rs	As	Tv	TVdiff	TVdir	Tuv	TVdif-h	Glare control
	0	56	44	0	0	0	0	0	Class 4

g_{tot}

	A	B	C	D
	int.	int.	int.	int.
Values	0.38	0.41	0.39	0.26
Classes	1	1	1	2

118118 night
Width: 1830 mm



Solar Heat & Light Control Properties

	Ts	Rs	As	Tv	TVdiff	TVdir	Tuv	TVdif-h	Glare control
	0	5	95	0	0	0	0	0	Class 4

g_{tot}

	A	B	C	D
	int.	int.	int.	int.
Values	0.68	0.67	0.55	0.30
Classes	0	0	0	2

170170 lightgrey
Width: 1830 mm



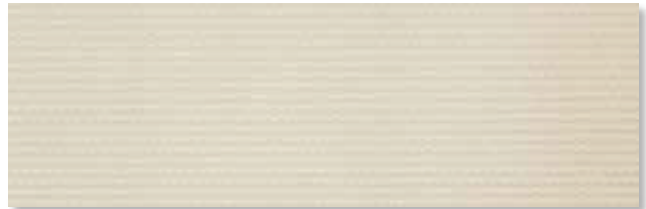
Solar Heat & Light Control Properties

	Ts	Rs	As	Tv	TVdiff	TVdir	Tuv	TVdif-h	Glare control
	0	22	78	0	0	0	0	0	Class 4

g_{tot}

	A	B	C	D
	int.	int.	int.	int.
Values	0.58	0.58	0.50	0.29
Classes	0	0	0	2

171171 cream
Width: 1830 mm

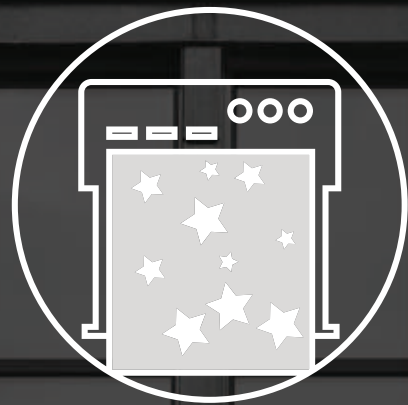


Solar Heat & Light Control Properties

	Ts	Rs	As	Tv	TVdiff	TVdir	Tuv	TVdif-h	Glare control
	0	60	40	0	0	0	0	0	Class 4

g_{tot}

	A	B	C	D
	int.	int.	int.	int.
Values	0.36	0.39	0.37	0.25
Classes	1	1	1	2



PRINT ON SCREEN

So far screen fabrics were designed to be functional. While keeping this functional aspect, fiberglass screen fabrics with printed designs are unique and have a high added value for new businesses, especially projects.

DIGITAL PRINTING, A FULLY SUSTAINABLE PROCESS

Digital printing refers to the method of printing from a digital based image directly to a variety of media. The main difference between digital printing and traditional methods is that no printing plates are used. This results in a quicker and less expensive turnaround time.

The printing method is - both environmentally and technically - a sustainable process. We use the greenest printers on the market. No special preliminary treatment of the fabric is required, and printing can easily be done for inside and outside applications. Almost any type of the Helioscreen fiberglass fabric range can be printed on. There is no special treatment required afterwards and the inline fixation is done at low temperature.

Digital print applications reduce the impact on the environment because non-toxic, low-smell inks are used. VOC-levels (volatile organic compound levels) of both fabric and print, are extremely low. Because the inks are fire retardant and non-combustible the printing process is performed in a safe working environment.

THE ONLY LIMIT IS YOUR IMAGINATION

Think out of the box and use your imagination. Whether you propose print on rollerblinds, tensile structures or even as a decoration or communication tool, many other options or applications are possible. Share your thoughts with us and create your own designs. We will be glad to explore what never has been done and think "out of the box" together with you. The only limit is your imagination.

Helioscreen also has a range of standard patterns to print on screen fabric: ask for our collection book.





Copyright Helioscreen 2018. Registered trademark. A Helioscreen product.

All figures provided in this Guide are measured and calculated by accredited laboratories according to the latest European standards.

WWW.HELIOSCREEN.COM

HELIOSCREEN nv

Dijkstraat 26 | Industriezone E17/1080 | 9160 Lokeren - Belgium
T. +32 (0)9 348 90 00 | F. +32 (0)9 348 06 69 | fabrics@helioscreen.com