

Blockout range



Flocké 11201

**Fire retardant treated and flocked
fibreglass fabrics, 100 % blackout**

Solar Protection:

All types of internal blinds

Tensile structures:

All types of shapes and volumes

medulight®

Collection 2006-2009



internal



printable



Widths 200 cm / 89 127 mm

> www.sunscreen-mermet.com

Properties



MERMET

Flocké 11201

Product features

- 100% of the light and U.V rays rejected: **complete blackout**
- **Excellent heat protection:** up to 70% of solar radiation screened
- **Elegant fabric** in designer colours
- **Excellent dimensional stability**
- **A great communication medium**



modulight® intelligent fabrics

Roller blinds



Roman shades



Decorative panels



Vertical blinds



Velums



Skylight blinds



Roof light blinds



Internal blinds

modulight®

1 rapid' selection 40

Flocké 11201 Pinpoint the performance factors



NL natural light

Level of incoming natural light



EC eye comfort

Glare control



HP heat protection

Protection against the heat gain from sunlight



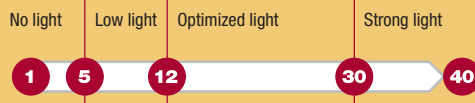
CV contrast vision

Quality of outward visibility



4 comfort factors
to choose the right fabric for the function and colour required and ensure the success of your solar protection.

NL natural light



EC eye comfort



HP heat protection



CV contrast vision



The Modulight® Rapid' Selection system, including the 4 comfort factors and their scale of values, is the property of Mermet S.A. It refers solely to solar protection fabric in the Mermet Modulight® collection. Any whole or partial reproduction is forbidden.

NL Level of incoming natural light

To obtain the best out of natural lighting, select in the **12** to **30** factor range. To block out the light completely, select from the **1** to **5** range.

EC Glare control

For adequate glare control, do not select below factor **22**.

HP Protection against the heat gain from sunlight

To be protected from the heat, select in the **20** to **40** factor range.

CV Quality of outward visibility

To make the most of visibility and provide true transparency, start at factor **15**. To ensure privacy, select a factor lower than **5**.

Flat structures



Shaped structures



Volume structures



Tensile structures

Flocké 11201

A "designer" solution for blocking out light or organizing space

Flocké 11201,

a true "finishing material" to go with all colour schemes.

- **Complete blackout for total privacy:** Flocké 11201 rejects 100% of the light rays and UV rays. Blackout is complete with the proper mechanism: **privacy is preserved by day or night.**
- **Thermal comfort:** Flocké 11201 rejects 71% of solar radiation due to its special white acrylic coating on reverse side. In the winter, it prevents heat loss and the effects of cold glass. This means it helps to **save energy** and **reduce greenhouse gas emissions.**
- **A perfect hang:** the technical properties of this treated flocked fibreglass fabric ensure **excellent dimensional stability.** Flocké 11201 needs no side strengtheners. It does not warp from heat and does **not discolour over time.**
- **Discreet and elegant looks:** a **matt finish** and a wide range of **designer colours** in pastel or deep shades. Flocké 11201 has a white coating facing outside which **preserves the uniformity of the façade** whatever colour is used inside.
- **A really bold material:** Flocké 11201 can be used for blinds, tensile ceilings, home cinema, partitions, **space layout...** Compatible with many printing processes, it is an **excellent communication medium.** **Non-flammable,** it complies with standards for buildings open to the public.



Widths 200 cm / 89 127 mm 78" / 3" 4"

modulight®

1 rapid selection 40

606 Black



617 Chêne



615 Cuivre



619 Encre



627 Transat



609 Loutre



614 Pétrole



628 Turquoise



612 Seychelles



629 Rubis



611 Mangue



624 Dune



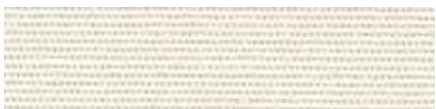
607 Soleil



618 Mississippi



623 Sahel



603 Beige



625 Coraline



600 White



608 Chartreux



626 Angora



NL = Level of incoming natural light, EC = Glare control, HP = Protection against the heat gain from sunlight, CV = Quality of outward visibility. Colours in the prints may be slightly different from the actual ones.

Flocké 11201



The technical data at a glance

Composition	Treated flocked fibreglass fabrics PVC-free	
Fire classification	M1 (F) B1 (DE) FR (USA) AS (AUS) BS (GB)	NFP 92 503 DIN 4102-1 NFPA 701-89 Small NFPA 701-89 Large NFPA 701-99 TM # 1 California U.S. Title 19 AWTA Tested AS 1530 part 2 and 3 476 Part 6 and 7 class 0
Openness factor	0 %	
UV screen	100 %	
Widths	200 cm / 89 – 127 mm 78" / 3 – 4"	
Weight per m ²	500 g 14.7 oz/yd² ± 5 %	ISO 2286 - 2
Thickness*	0,55 mm 22 mil ± 5 %	ISO 2286 - 3
Breaking strength	Warp > 110 daN/5 cm > 278 lbs/in Weft > 60 daN/5 cm > 189 lbs/in	ISO 1421
Elongation to break point	Warp and Weft < 5 %	
Tear resistance	Warp and Weft ≥ 3 daN	Internal procedure
Resistance to fold	Warp and Weft ≥ 10 daN/5 cm	Internal procedure
Dimensional stability for verticals	Twisting ≤ 10° Curling ≤ 5 mm	Internal procedure
Color fastness to light	scale of 8 7/8 White not graded	ISO 105 B02
Marking	Digital printing / Screen printing Transfer / Paint / Adhesive	
Making-up	Welding plus adhesive (thermal, high frequency, ultrasonic) or sewing	
Standard packaging	Rolls of 27 lm Verticals: 100 lm	

* Weight and Thickness:

Colours 600/618 = Weight per m² : 580 g (± 5 %) and Thickness: 0,60 mm (± 5 %)

Colours 603/607/608/609/611/612/615/623/624/625/626/627/628/629 = Weight per m² : 500 g (± 5 %) and Thickness: 0,55 mm (± 5 %)

Colours 606/614/617/619 = Weight per m² : 430 g (± 5 %) and Thickness: 0,50 mm (± 5 %)

The data in this document is for information only and may not be considered as binding



Flocké 11201



Thermal and optical factors in the American standard Ashrae 74-73

Openness factor (Co) OF 0%	Ts	Fabric		Thermal factors Fabric + glazing 1/4" Cl. 1/4" H.A. Sc (Fc) internal blind		Optical factors			
		Rs	As			Tv	Tvdif	Tvdifh	
Colours									
600 White	0	69	31	0.28	0.29	0	Not applied in the American standard		
606 Black	0	68	32	0.28	0.29	0			

Tested with the coated white side facing outwards.

1/4" Cl: clear 1/4" (6mm) glazing • 1/4" H.A.: heat absorbing 1/4" (6mm) glazing.
Samples tested by the ASHRAE 74-73 standard "Method of measuring solar-optical properties of materials".

Solar protection and light control indicators are laboratory-tested. The most relevant and widely-used factors are as follows:

➤ Thermal factors

Thermal factors relating to the fabric alone

Ts Solar transmittance: this factor gives the proportion of solar energy transmitted through the fabric. A low percentage means the fabric performs well at reducing solar energy.

Rs Solar reflectance: this factor gives the proportion of solar radiation reflected by the fabric. A high percentage means the fabric performs well at reflecting solar energy.

As Solar absorptance: this factor gives the proportion of solar radiation absorbed by the fabric. A low percentage means the fabric absorbs little solar energy.

Solar radiation is always partially transmitted through, absorbed or reflected by the fabric. The sum of all 3 equals 100. $T_s + R_s + A_s = 100\%$ of solar energy.

Thermal factors calculation using reference glazing and according to the position of the blind (indoor or outdoor)

Sc Shading coefficient (or Fc shading factor or z*): this factor shows how effective the fabric is at filtering the heat from solar radiation. It is expressed as a factor between 0 and 1. A low figure means high protection from heat flow.

Fs Solar factor or gtot factor*: the percentage of solar energy which actually penetrates into a room through the blind and glazing.

Fs = Sc x Fs of glazing
or in European terminology:
gtot = Fc x g of glazing*
The solar factor of the glazing (Fs of glazing or g of glazing) is an indication given by plain glass manufacturers. This is often given randomly as **g of glazing = 0.75** as reference for standard double glazing.

➤ Optical factors

Tv Visible transmittance (or TL Light transmission): this factor gives the total percentage of light radiated through the fabric over a wavelength of 380 to 780nm (nanometers), called the visible spectrum (total illumination).

Of Openness factor (or Co Openness coefficient*): this factor gives, in brief, a percentage of holes in a fabric. In the European standard, it is considered as independent of the colour but, for fabrics with the same weave, it should be measured using the darkest colour in the range.

Tdif Diffuse transmission factor*: correlation of the two factors above:

Tdif = Tv - Co
The diffuse part of total light transmission is indicated as Tvdif for the aspects of glare and shape recognition (visual contact to the outside/night privacy). However, for natural light control, it is indicated as Tvdifh. This is used to ascertain

a fabric's light diffusion capacity. Panel becomes a source of light if the sun shines directly on it. The light intensity, or "luminance", emitted by a fabric can also be measured in candelas/m² (Cd/m²).

Tuv Ultraviolet transmittance factor: this factor gives the percentage of ultraviolet light radiated through the fabric over a wavelength of 280 to 380 nm (nanometers). UV radiation accelerates natural ageing. All means of solar protection ensure a certain amount of protection from UV rays.

* European terminology

Flocké 11201



Dark
colour
Black
606

Light
colour
White
600

Visual transmission
(Tv or TL)

Tv = 0 %

Tv = 0 %

Thermal transmission
Total solar factor
(gtot or fs)

gtot = 21 %

gtot = 21 %



Flocké 11201

Advice

Storage conditions

The rolls of fabric should be stored horizontally, but not piled up, in a place where the temperature and level of humidity is as constant as possible.

The fabric should never be folded. For long-term storage, it is not advisable to leave rolled or folded panels on top of each other.

Advice for blind making

As Flocké 11201 has a white acrylic coating on one side, it is recommended to handle it on a clean dust-free surface.

The panels of fabric are cut by blade or ultrasonically. They can be welded (thermal, high frequency or ultrasonic, with an adhesive support if need be) or sewn together.

The fabric must be properly squared before it is made up, especially for large blinds or structures.

The blinds can be manufactured normally (vertical warp) or railroaded (vertical weft).

Horizontal seams give the best result.

Very long blinds may need the addition of stiffeners to ensure they will still hang properly after time.

Flocké 11201 requires the addition of an adhesive tape to strengthen the weld.

Care instructions

Remove dust with vacuum cleaner or compressed air. Do not scrub.

Do not use solvents or any abrasive substance that might damage the coating of the fabric.

Use a plant-based eraser to remove superficial stains.



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