

Blockout range



Paradis T1600

**Fire retardant treated
fibreglass fabrics**

Solar protection:
All types of internal blinds

Tensile structures:
All types of shapes and volumes

modulight®

Collection 2006-2009



internal



printable



Widths 200 cm / 89 127 mm

www.sunscreen-mermet.com

MERMET

Properties



Paradis 11600

Product features

- **Privacy** and **light modulated** by colour
- A wide range of **bright** or **natural colours**
- **A hang** that does **not age**
- A fabric to **print** and **structure**



modulight[®] intelligent fabrics

Roller blinds

Roman shades

Decorative panels

Vertical blinds

Velums

Skylight blinds

Roof light blinds



Internal blinds

modulight®

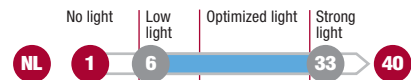
Paradis T1600 Pinpoint the performance factors

1 rapid selection 40



NL natural light

Level of incoming natural light



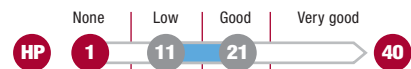
EC eye comfort

Glare control



HP heat protection

Protection against the heat gain from sunlight



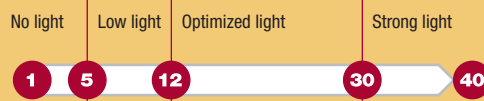
CV contrast vision

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



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**.

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.

Flat structures



Shaped structures



Volume structures



Tensile structures

Paradis 11600

Your very own privacy

Bright or soothing, natural or tangy, light or dark...

With Paradis 11600, you can modulate light and privacy as you like.

➤ **Privacy and glare control...**

playing with colour: Paradis 11600 helps to **control glare** and can **darken a room** to different degrees depending on the colour. In dark colours, it reflects up to 99% of the light rays for **nearly total darkness**, whereas bright ones let in more natural light.

➤ **A wide range of bright colours:**

natural or tangy or shimmering, Paradis 11600 offers a range of 22 hues for **really colourful decoration**.

➤ **Stability and long life:**

the technical properties of Paradis 11600's **treated fibreglass fabric** provide **stability** and prevent it from warping. The antibacterial treatment protects the coating from deterioration and ensures its durability. Its **colours are fast to light** and keep all their freshness. **Non-flammable**, it complies with requirements for buildings open to the public.

➤ **A tremendous expression medium:**

Paradis 11600 has a matt finish for printing, whatever technique is used. It can be used to **form shapes and volumes** within rooms.



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

modulight®

Natural Light eye comfort Heat protection contrast vision

1 rapid selection 40

NL EC HP CV

145 Black



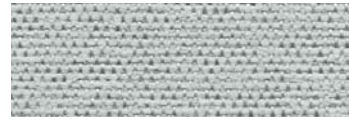
NL EC HP CV
6 39 11 2

245 Silex



NL EC HP CV
10 38 13 2

553 Chrome



NL EC HP CV
25 37 17 3

267 Givre



NL EC HP CV
30 36 19 3

264 Atlantide



NL EC HP CV
10 38 12 2

265 Croisière



NL EC HP CV
27 36 15 3

186 Myosotis



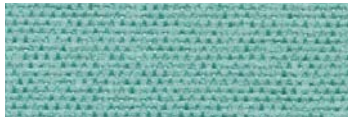
NL EC HP CV
25 37 17 3

234 Jacinthe



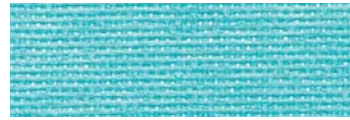
NL EC HP CV
27 36 19 3

195 Thuya



NL EC HP CV
17 38 15 2

263 Maldives



NL EC HP CV
27 36 17 3

168 Lagon



NL EC HP CV
30 36 19 3

121 Citron



NL EC HP CV
30 36 20 3

215 Curry



NL EC HP CV
27 36 20 2

196 Framboise



NL EC HP CV
15 38 15 2

262 Carotte



NL EC HP CV
25 37 17 3

163 Saumon



NL EC HP CV
27 36 17 3

105 Beige



NL EC HP CV
27 36 17 3

119 Chanvre



NL EC HP CV
27 36 19 2

254 Perle



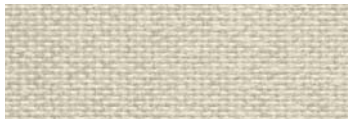
NL EC HP CV
30 36 19 3

272 Semoule



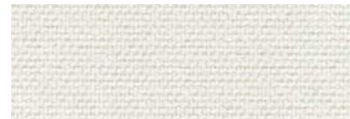
NL EC HP CV
30 36 20 3

270 Riz



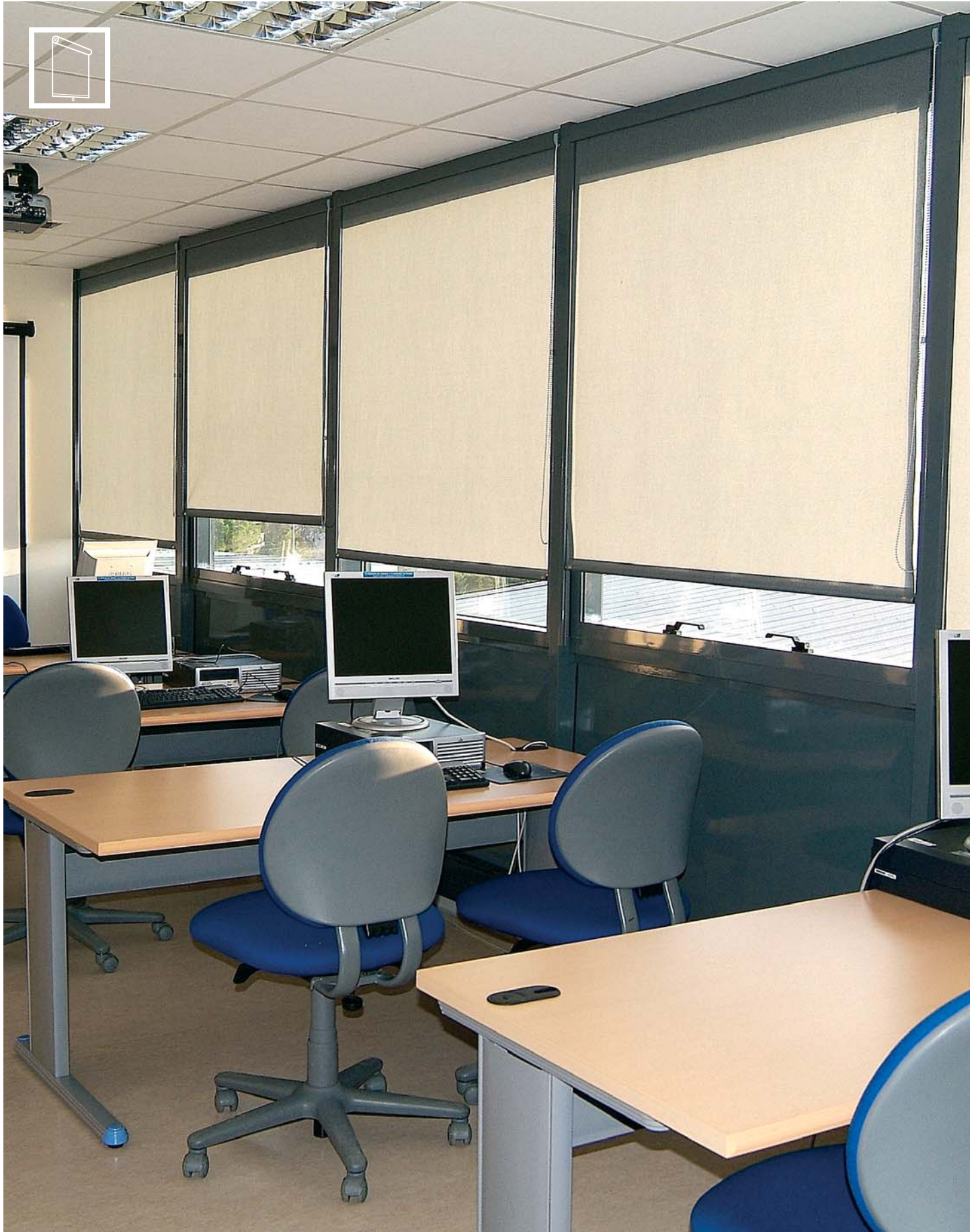
NL EC HP CV
30 36 20 3

101 White



NL EC HP CV
33 35 21 3

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.



Composition	Treated fibreglass fabrics PVC-free, halogen-free	
Fire classification	M1 (F) FR (USA) AS (AUS)	NFP 92 503 NFFPA 701-89 Large NFFPA 701-99 TM # 1 California U.S. Title 19 AWTA Tested AS 1530 part 2 and 3
Openness factor	1-2 %	
UV screen	Up to 93 %	
Widths	200 cm / 89 – 127 mm 78" / 3-4"	
Weight per m ²	260 g 7.7 oz/yd² ± 5 %	ISO 2286 - 2
Thickness	0,35 mm 14 mil ± 5 %	ISO 2286 - 3
Breaking strength	Warp > 120 daN/5 cm > 135 lbs/in Weft > 140 daN/5 cm > 157 lbs/in	ISO 1421
Elongation to break point	Warp and weft < 5 %	ISO 1421
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
Colour 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 Im Verticals: 100 Im	

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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

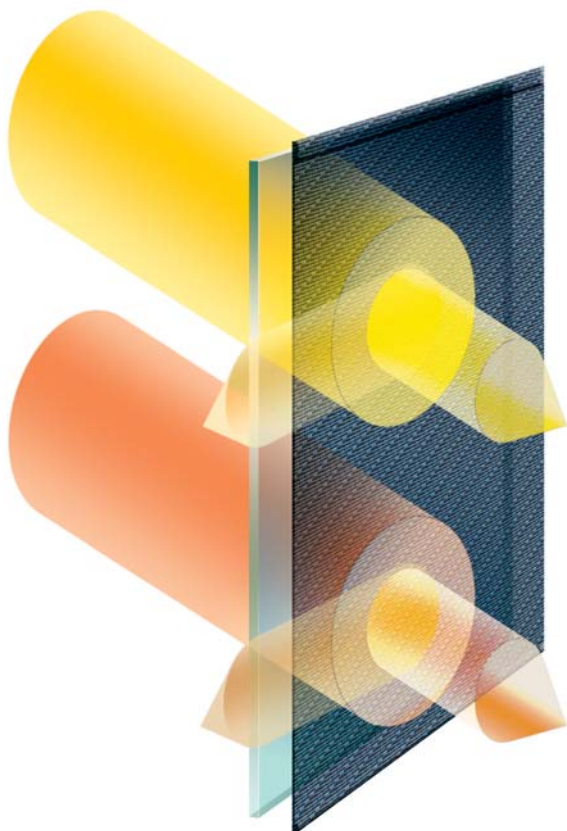
Thermal and optical factors in the American standard Ashrae 74-73

Openness factor (Co) OF 1-2%	Thermal factors					Optical factors		
	Ts	Fabric Rs	As	Fabric + glazing 1/4" Cl. 1/4" H.A. Sc (Fc) internal blind		Tv	Tvndif	Tvdifh
Colours								
101 White	36	53	11	0.47	0.39	25	Not applied in the American standard	
270 Riz	31	48	21	0.49	0.40	22		
272 Semoule	32	51	17	0.47	0.39	21	-	
119 Chanvre	30	51	19	0.46	0.39	20	-	
105 Beige	25	44	31	0.50	0.41	15	-	
553 Chrome	24	39	37	0.53	0.42	16	-	
145 Black	TR*	4	96	0.69	0.50	1	-	

* Trace ≤ 0.5%

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".



Dark colour	Light colour
Black	White
145	101

Visual transmission (Tv or TL)	
Tv = 1 %	Tv = 25 %

Thermal transmission Total solar factor (gtot or fs)	
gtot = 37 %	gtot = 29 %



Paradis 11600

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

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.

Paradis 11600 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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