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MERMET
SUN CONTROL TEXTILES

BLACKOUT 100%

KARELLIS 11301

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INTELLIGENT FABRICS FOR SOLAR PROTECTION



INTERNAL
APPLICATION

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KARELLIS 11301

THE FINE AND LIGHTWEIGHT LARGE-WIDTH BLACKOUT FABRIC

100%
BLACKOUT

300 CM
LARGE WIDTH

- 100% OF THE LIGHT AND UV RAYS BLOCKED up to 100.000 Lux
- THERMAL COMFORT: rejects up to 87% OF SOLAR RADIATION ($g_{tot} = 0,13$ / glazing $g = 0,32$ and $U = 1,1$ W/m²K)
- PVC-free coated polyester fabric
- With LIGHTWEIGHT AND FINE fabric, it fits perfectly into SMALL BLIND CASSETTES
- 6 colours available, identical on both sides for a harmonious facade effect viewed from the outside
- DIMENSIONAL STABILITY, DURABILITY (test of 10.000 cycles, class 3 NF EN 13120) MECHANICAL RESISTANCE: perfect flatness even in large dimensions
- Health/Safety: conforms to standard requirements for buildings open to the public

TECHNICAL DATA

KARELLIS 11301			
Composition	PVC-free coated polyester fabric		
Fire, smoke classification and other official test reports*	M1 (F) - NFP 92 503, NFP 92 504 and NFP 92 505 B1 (DE) - DIN 4102-1 BS (GB) - 5867 IMO - MED 2014/90/EU	CLASE 1 (SP) - EN 13773 F3 (F) - NF F 16-101 HHV: 20,4 MJ/kg (6,12 to 7,14 MJ/m²)	
Health, safety	Greenguard* GOLD: Guarantee of indoor air quality (VOC)		
Opacity ***	100% up to 100.000 lux (depending on colours)		
UV screen	100%		
Width	300 cm		
Weight/m²	290 g ± 10% (colour 606) / 330 g ± 10% (colours 600,623,618,609,608) - ISO 2286 - 2		
Thickness	0,35 mm ± 10% - ISO 2286 - 3		
Colour Fastness to light (scale of 8)	6/8 - ISO 105 B02 (white not graded)		
Mechanical resistance	Breaking	Tear	Folding
Warp	> 150 daN/5 cm	≥ 9 daN	≥ 140 daN/5 cm
Weft	> 70 daN/5 cm	≥ 5 daN	≥ 80 daN/5 cm
	ISO 1421	EN 1875-3	ISO 1421**
Elongation (warp and weft)	< 20% - ISO 1421		
Packaging	Rolls of 33 lm		
Making up	Advice note on request		

This product's technical data are in conformity with this brochure as of the date of publication. MERMET SAS reserves the right to change the technical data; only those provided on the company's website www.sunscreen-mermet.com shall be deemed to be authentic. Where applicable, MERMET SAS also reserves the right to withdraw this product from sale should any of the technical properties or characteristics set out above prove to be inadequate or rendered impossible as a result of a change in regulations or in knowledge or understanding.

* Reports available on request, please contact Mermet

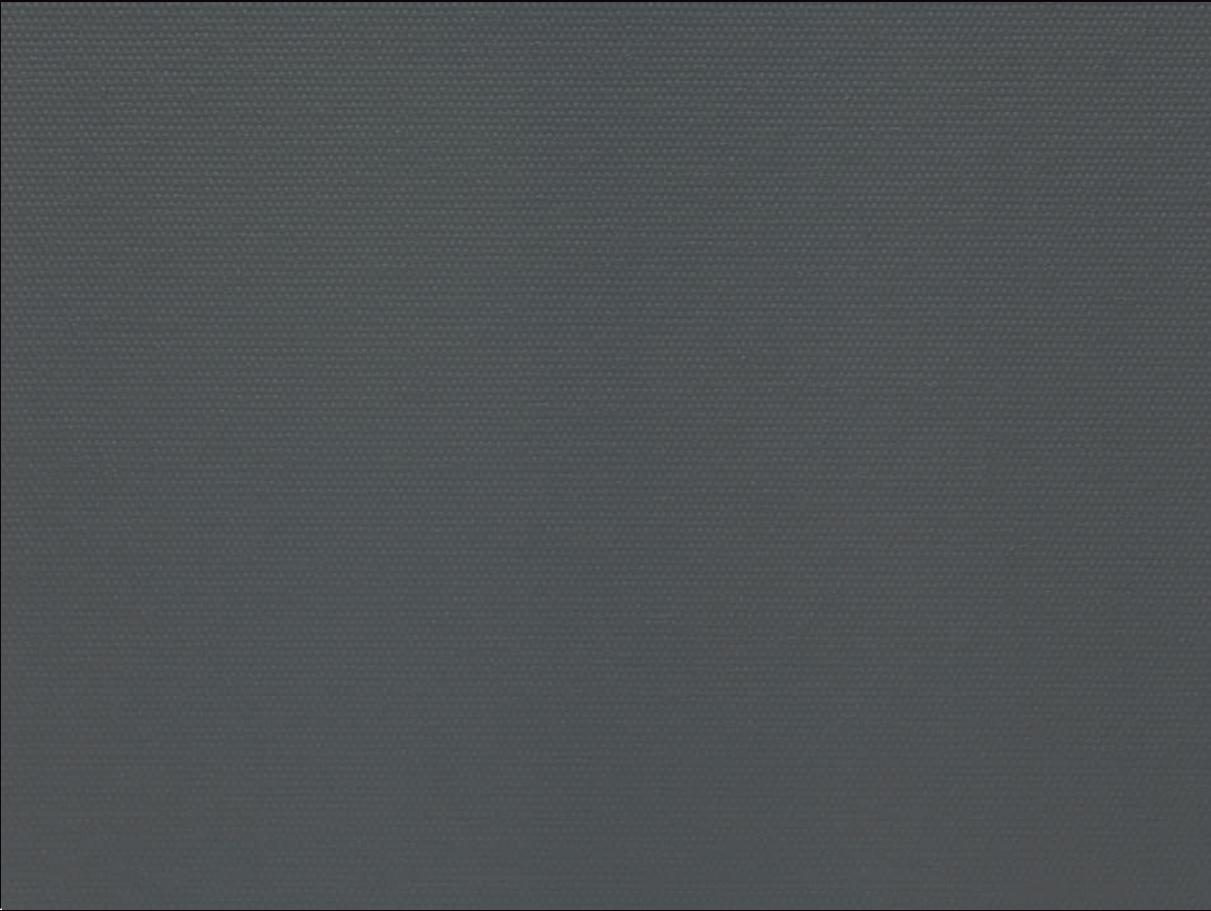
** Internal procedure derived from ISO 1421 standard

*** Opacity: 100% at 100.000 lux (colours 606, 608, 609), 100% at 60.000 lux (colours 618, 623), 100% at 50.000 lux (colour 600)



SERVICE

- Calculation of solar factor g_{tot} (glazing + blind)
- Spectral values and thermal & optical factors available on request
- Specification sheet
- A4 samples and prototypes
- Training on fabrics functionality



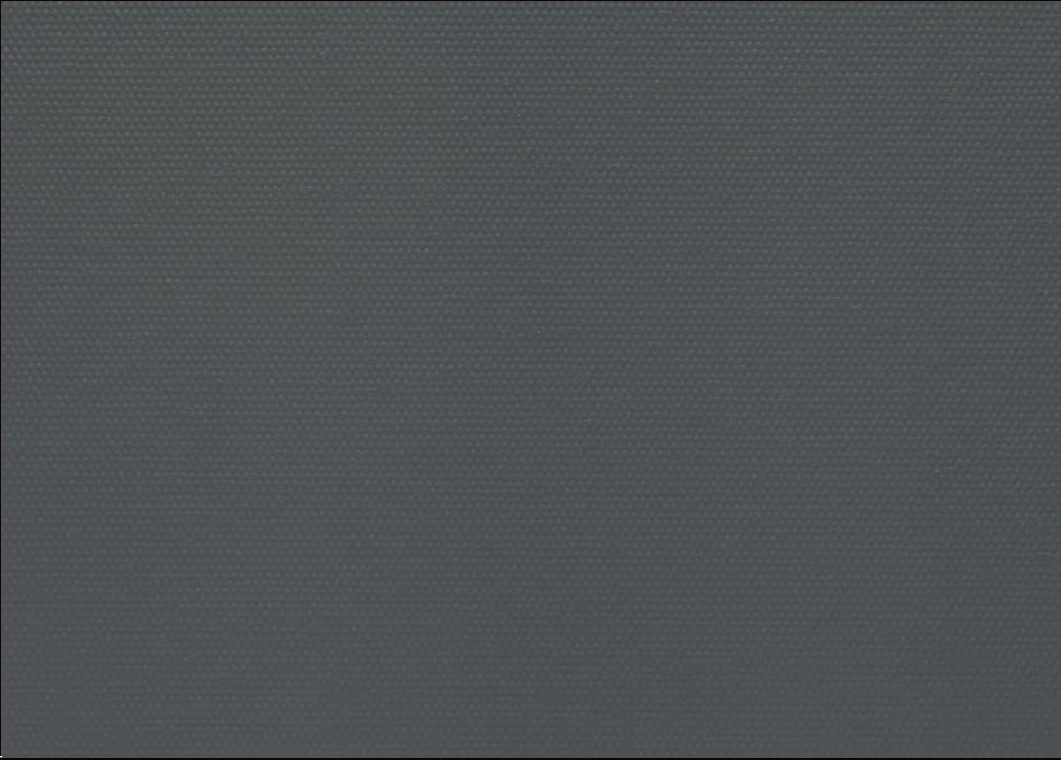
THERMAL AND OPTICAL FACTORS in the European standard EN 14501

KARELLIS 11301 OF 0%	Thermal factors					Optical factors
	Fabric			Fabric + Glazing / gtot internal blind		Tv
Colours	Ts	Rs	As	C : gv = 0,59	D : gv = 0,32	
600 White	0	64	36	0,28 2	0,13 3	0
623 Sahel	0	56	44	0,32 2	0,16 2	0
618 Mississippi	0	49	51	0,36 1	0,19 2	0
608 Chartreux	0	24	76	0,46 1	0,26 2	0
609 Loutre	0	15	85	0,51 0	0,28 2	0
606 Black	0	5	95	0,55 0	0,31 2	0

gv = 0,59: Solar factor of standard glazing (C), low-emission 4/16/4 double glazing filled with Argon (U value thermal transmittance = 1,2 W/m²K).
gv = 0,32: Solar factor of standard glazing (D), reflecting low-emission 4/16/4 double glazing filled with Argon (U value thermal transmittance = 1,1 W/m²K).

Comfort classification according to EN 14501 standard: 0 very little effect 1 little effect 2 moderate effect 3 good effect 4 very good effect

Samples tested according to EN 14500 standard defining the measurements and calculation methods as specified in the standard EN 13363-2 "Solar protection devices combined with glazing calculation of solar and light transmittance - part 2: EN 13363-2 detailed method" and EN 410 "Glass in building - Determination of luminous and solar characteristics of glazing".



INTERNAL APPLICATIONS



Roller blinds



Decorative panels



Velums



ZIP Roller blinds



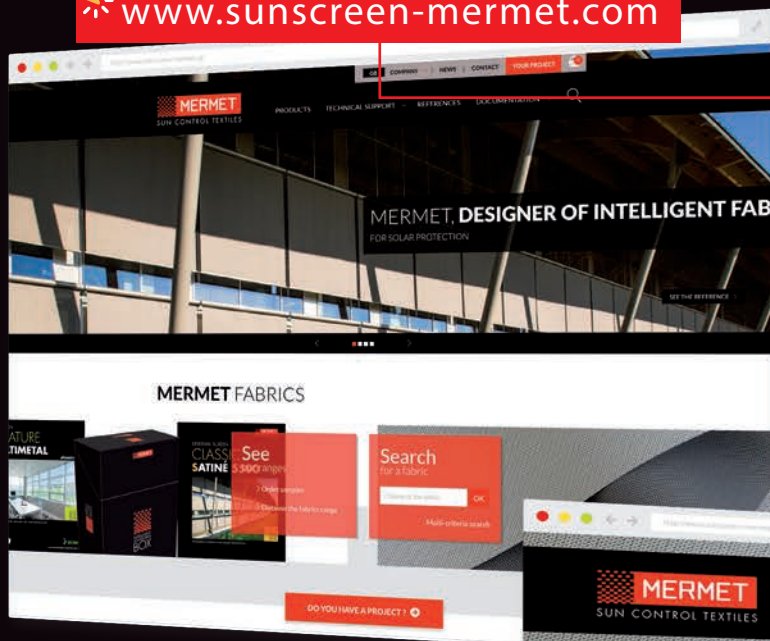
Printable



Space fitting

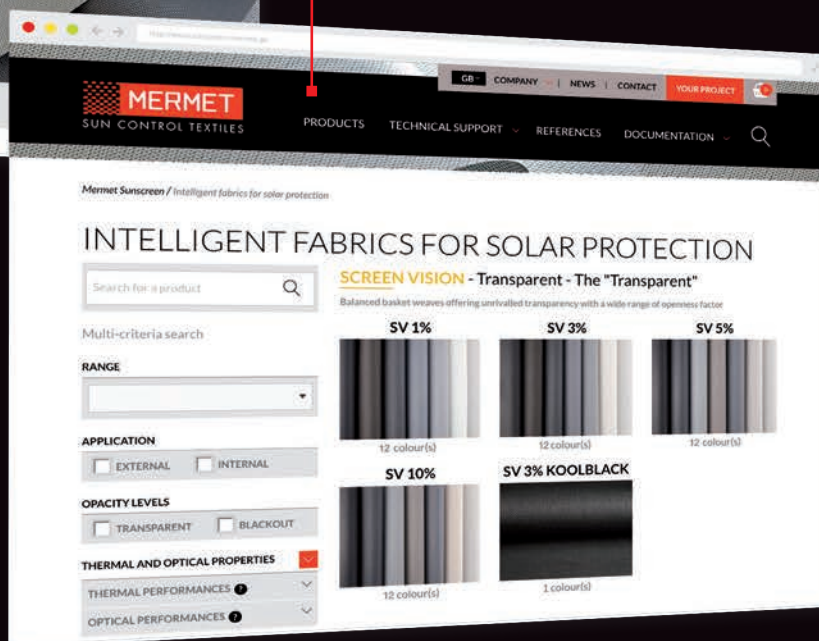


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- All products information available
- A library of references



 **MERMET COLLECTION** offers a wide choice of fabrics for external and internal application, from transparency to total darkness, for thermal and optical comfort. To receive other brochures from the collection, contact us.



SCREEN VISION / DESIGN / THERMIC / LOW E

EXTERNAL SCREEN CLASSIC

SCREEN NATURE

BLACKOUT 100 %

ACOUSTICS



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