

BLACKOUT 100%

KARELLIS 11301

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COLLECTION
2018
2021

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 (gtot = 0,13 / glazing g = 0,32 and U = 1,1)
- 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

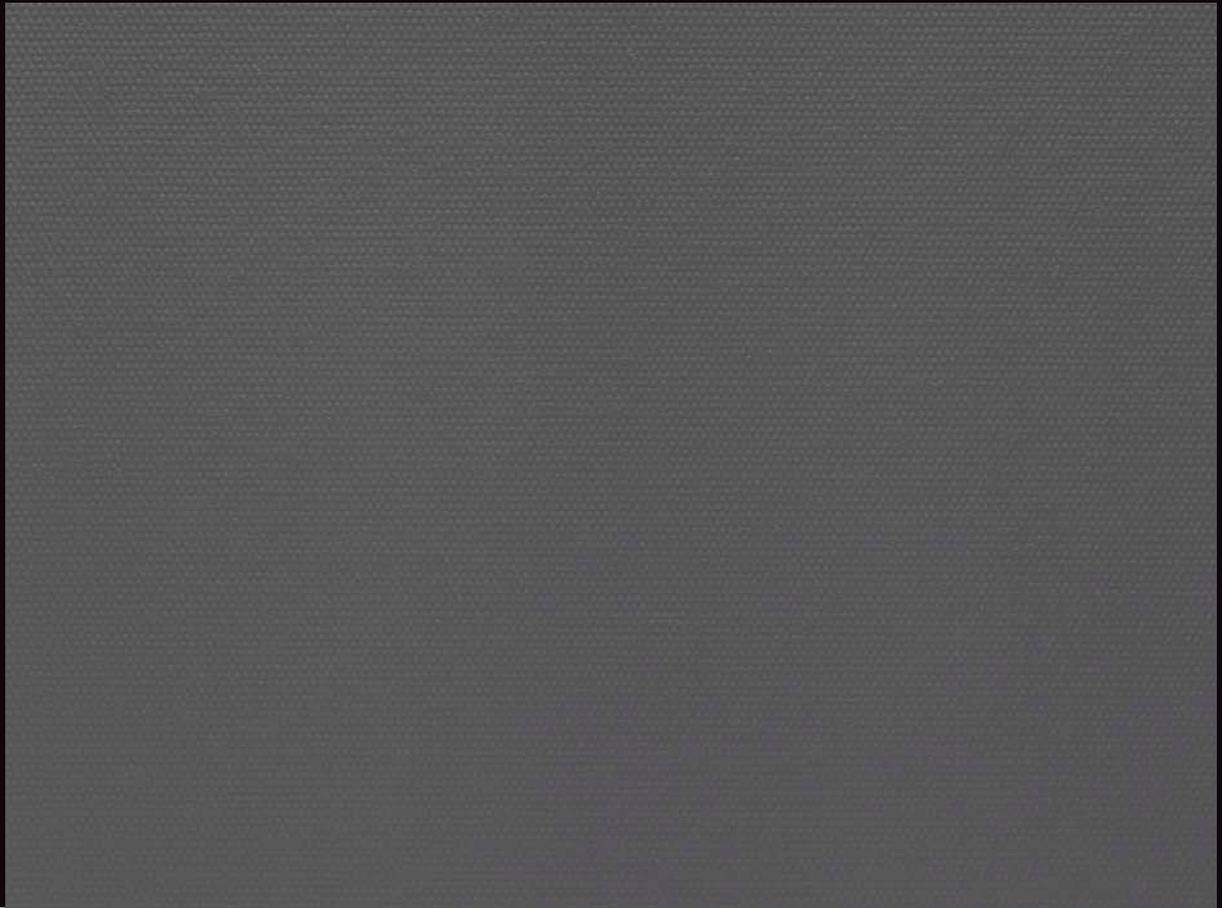
KARELLIS 11301			
Composition	PVC-free coated polyester fabric		
Fire, smoke classification and other official test reports	M1 (F) - NFP 92 503, NFP 92 504 and NFP 92 505 B1 (DE) - DIN 4102-1 BS (GB) - 5867 IMO - MED 2014/90/EU	CLASSE 1 (SP) - EN 13773 F3 (F) - NF F 16-101 HHV: 20,4 MJ/kg (6,12 to 7,14 MJ/m ²)	
Health, safety	Greenguard®: Guarantee of indoor air quality (VOC) Antibacterial: More than 99% of bacteria destroyed - ASTM E 2180		
Opacity	100% up to 100.000 lux (500 W) depending on colours		
UV screen	100%		
Width	300 cm		
Weight/m ²	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		

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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)



THERMAL AND OPTICAL FACTORS 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

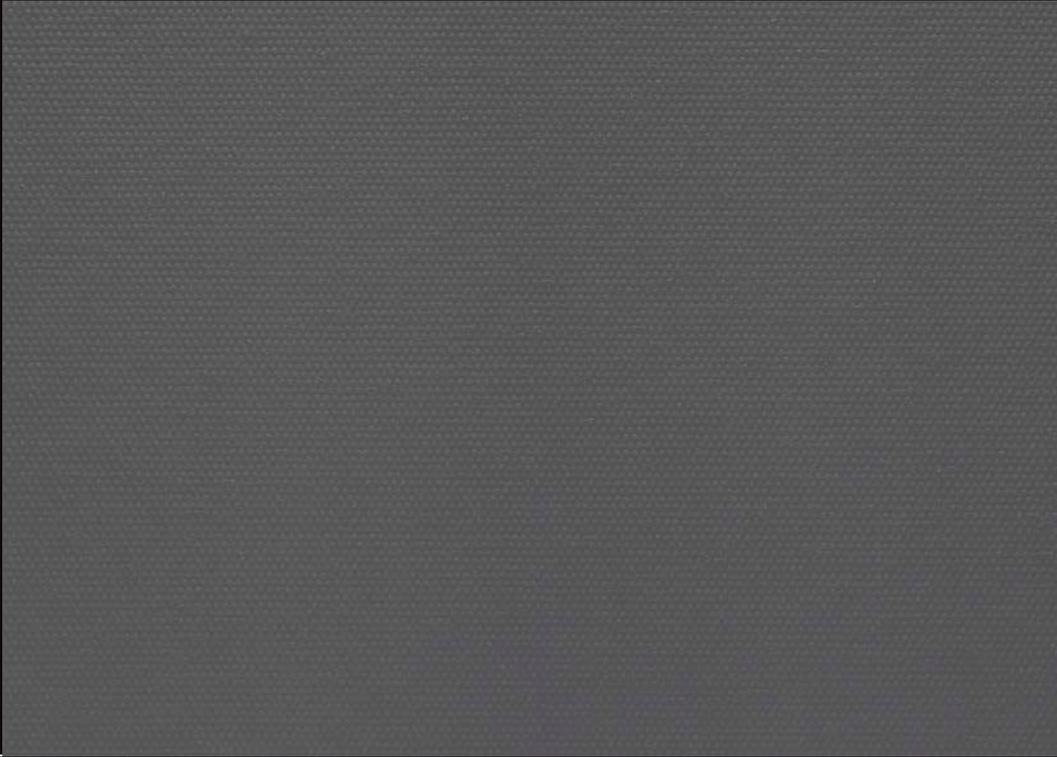
gv = 0,59: Solar factor of standard glazing (C), low-emission 4/16/4 double glazing filled with Argon (U value thermal transmittance = 1,2 W/m²K).

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).

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".

609



INTERNAL APPLICATIONS



Roller blinds



Decorative panels



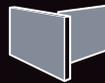
Velums



ZIP Roller blinds



Printable



Space fitting





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

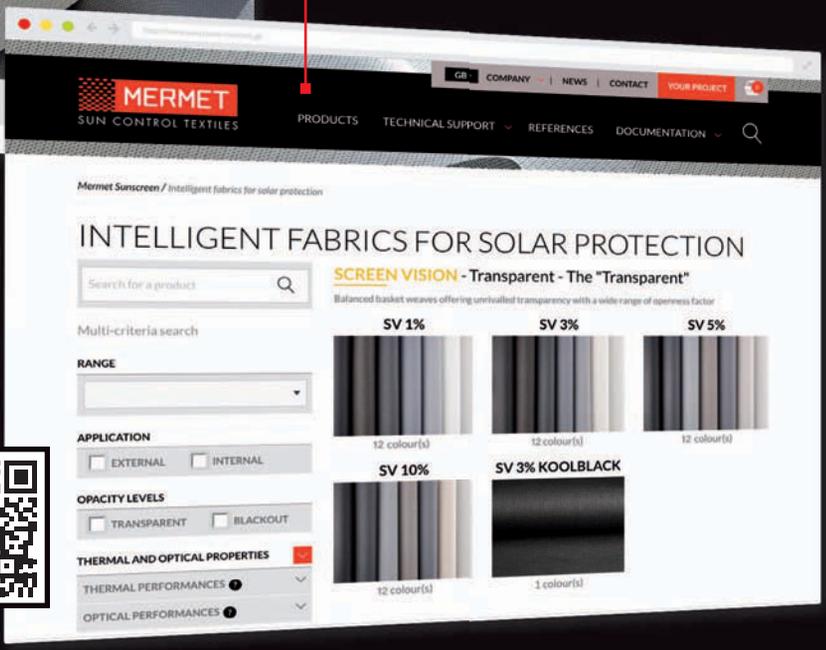
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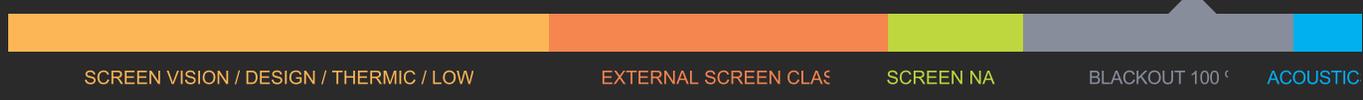
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