

SCREEN

NATURE

 **GreenScreen™**



INTELLIGENT FABRICS FOR SOLAR PROTECTION



INTERNAL
APPLICATION

SCREEN NATURE

ENVIRONMENTAL QUALITY SCREEN:

PVC FREE, HALOGEN FREE, POLYESTER FREE

EXCELLENT

TRANSPARENCY

INCOMBUSTIBLE

- Mineral composition designed for a **MINIMUM ENVIRONMENTAL IMPACT**

- **INCOMBUSTIBLE**, smoke emission free: **M0** (NFP 92 503), Euroclass **A2-s1-d0, F0**

- **VERY GOOD GLARE CONTROL**: up to 95% ($T_v = 5\%$) of light rays filtered, comfort classification 3 (good effect) according to EN 14501 standard

- **THERMAL COMFORT**: up to 82% of solar energy eliminated ($g_{tot} = 0,18$ / glazing $g = 0,32$ and $U = 1,1$ W/m²K)

- Elegant fabric design and **FINE**, ideal for blinds in **COMPACT SPACES**

- 8 colours available in 180 cm and **240 CM** widths

- **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

SCREEN NATURE			
Composition	Glass fabric with fire-proof PVC-free and halogen-free coating		
Fire, smoke classification and other official test reports*	M0 - M1 (F) - NFP 92 503 A2 (DE) - DIN 4102-1 BS (GB) - 476 Pt 6 & 7 Class 0 C UNO (IT) - UNI 9177	Euroclass A2-s1-d0 (EU) - EN 13501-1 mounted according to EN 13823 & EN 14716	FR (US) - NFPA 701 F0 (F) - NF F 16-101 HHV : 1,91 MJ/kg (0,32 MJ/m ²)
Health, safety	Greenguard® GOLD : Guarantee of indoor air quality (VOC) Antibacterial : More than 99% of bacteria destroyed - ASTM E 2180		
Openness factor	4%		
UV screen	Up to 95%		
Widths	180 - 240 cm		
Weight/m ²	170 g ± 5% - ISO 2286 - 2		
Thickness	0,23 mm ± 5% - ISO 2286 - 3		
Colour Fastness to light (scale of 8)	7/8 - ISO 105 B02 (white not graded)		
Mechanical resistance	Breaking	Tear	Folding
Warp	> 100 daN/5 cm	≥ 3 daN	≥ 30 daN/5 cm
Weft	> 110 daN/5 cm	≥ 3 daN	≥ 30 daN/5 cm
	ISO 1421	EN 1875-3	ISO 1421**
Elongation (warp and weft)	< 5% - ISO 1421		
Packaging	Rolls of 50 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

WIDTHS: 180 - 240 CM

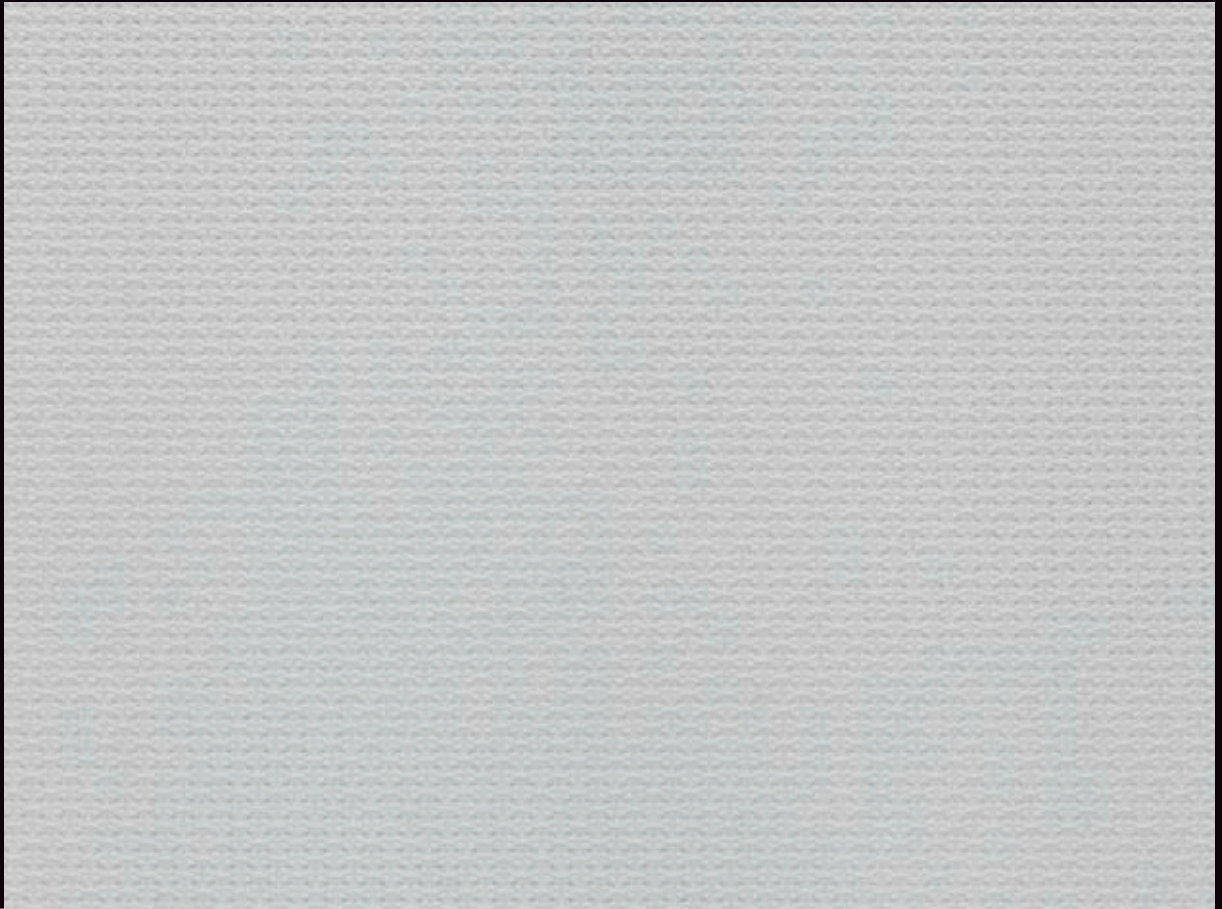


Colours may be slightly different from the actual ones

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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THERMAL AND OPTICAL FACTORS in the European standard EN 14501

SCREEN NATURE OF 4%	Thermal factors					Optical factors
	Fabric			Fabric + Glazing / gtot internal blind		Tv
Colours	Ts	Rs	As	C : gv = 0,59	D : gv = 0,32	
B119 White	33	58	9	0,36 1	0,18 2	33
0319 Linen	30	56	14	0,36 1	0,19 2	30
0348 Silver	29	51	20	0,39 1	0,20 2	27
0410 Sable	25	46	29	0,40 1	0,22 2	22
0349 Pearl	18	34	48	0,46 1	0,25 2	13
0441 Grey	8	14	78	0,53 0	0,29 2	7
1134 Bronze	7	11	82	0,54 0	0,30 2	6
0440 Charcoal	5	6	89	0,55 0	0,31 2	5

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).

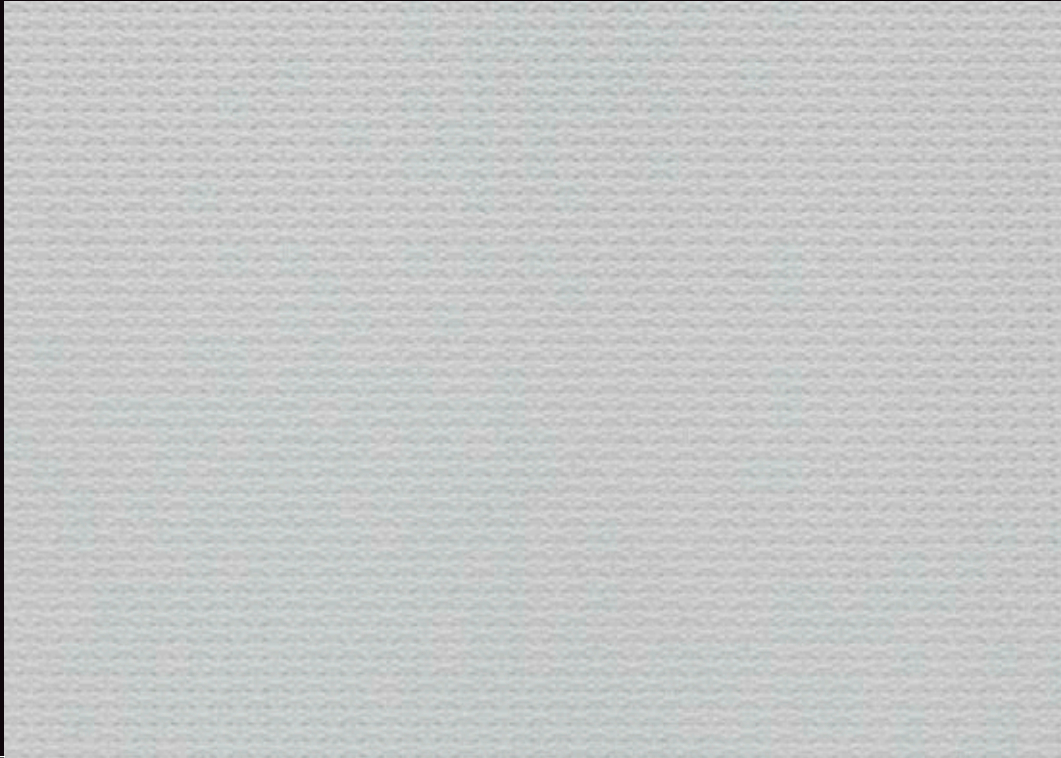
gv = 0,32: Solar factor of standard glazing (D), reflecting low-emission 4/16/4 double glazing filled with Argon (U value thermal transmittance = 1,1 W/m²K).

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".

SCREEN NATURE

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INTERNAL APPLICATIONS



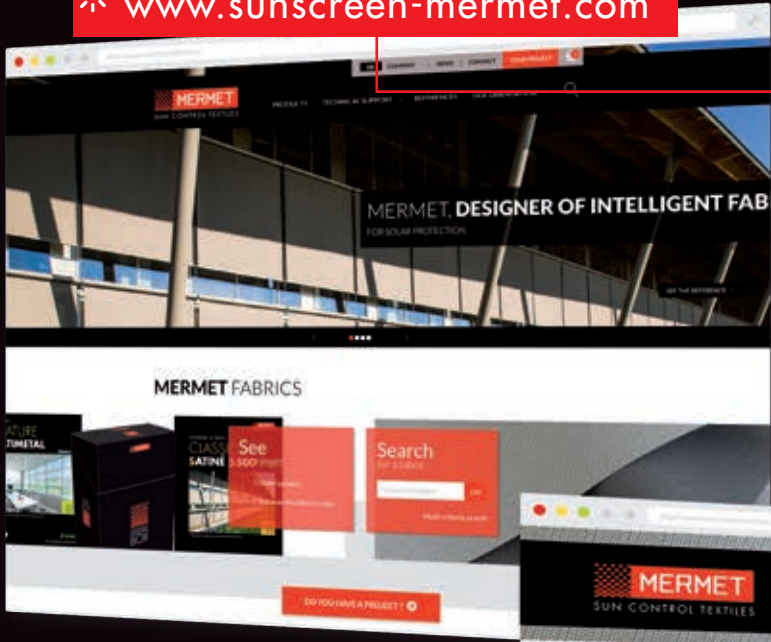
Roller blinds



Printable

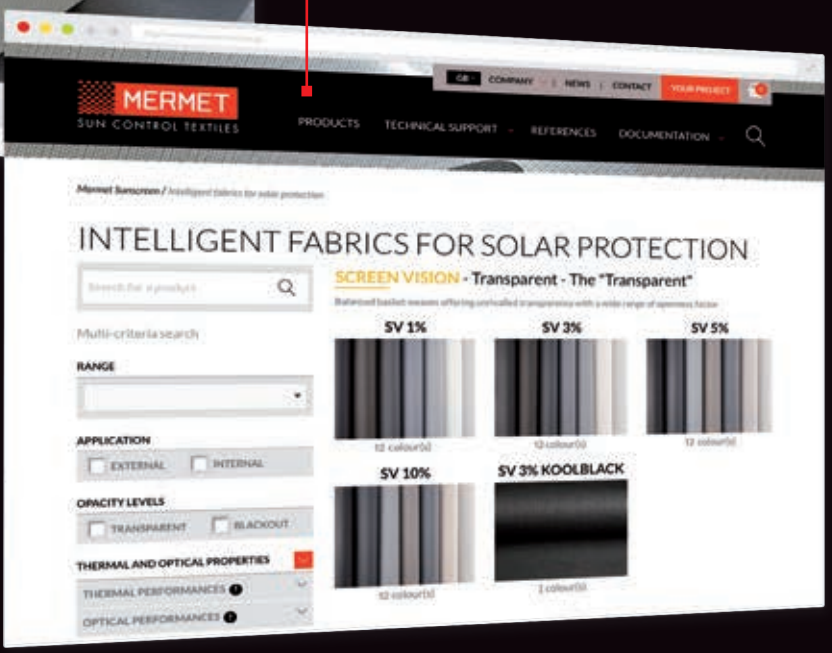


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- A search engine with performances criteria
- Many documents for download
- All products information available
- A library of references



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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