

SCREEN

NATURE



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COLLECTION
2018
2021

INTELLIGENT FABRICS FOR SOLAR PROTECTION



INTERNAL
APPLICATION

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SCREEN NATURE

ENVIRONMENTAL QUALITY SCREEN: PVC FREE, HALOGEN FREE, POLYESTER FREE

EXCELLENT
TRANSPARENCY

INCOMBUSTIBLE

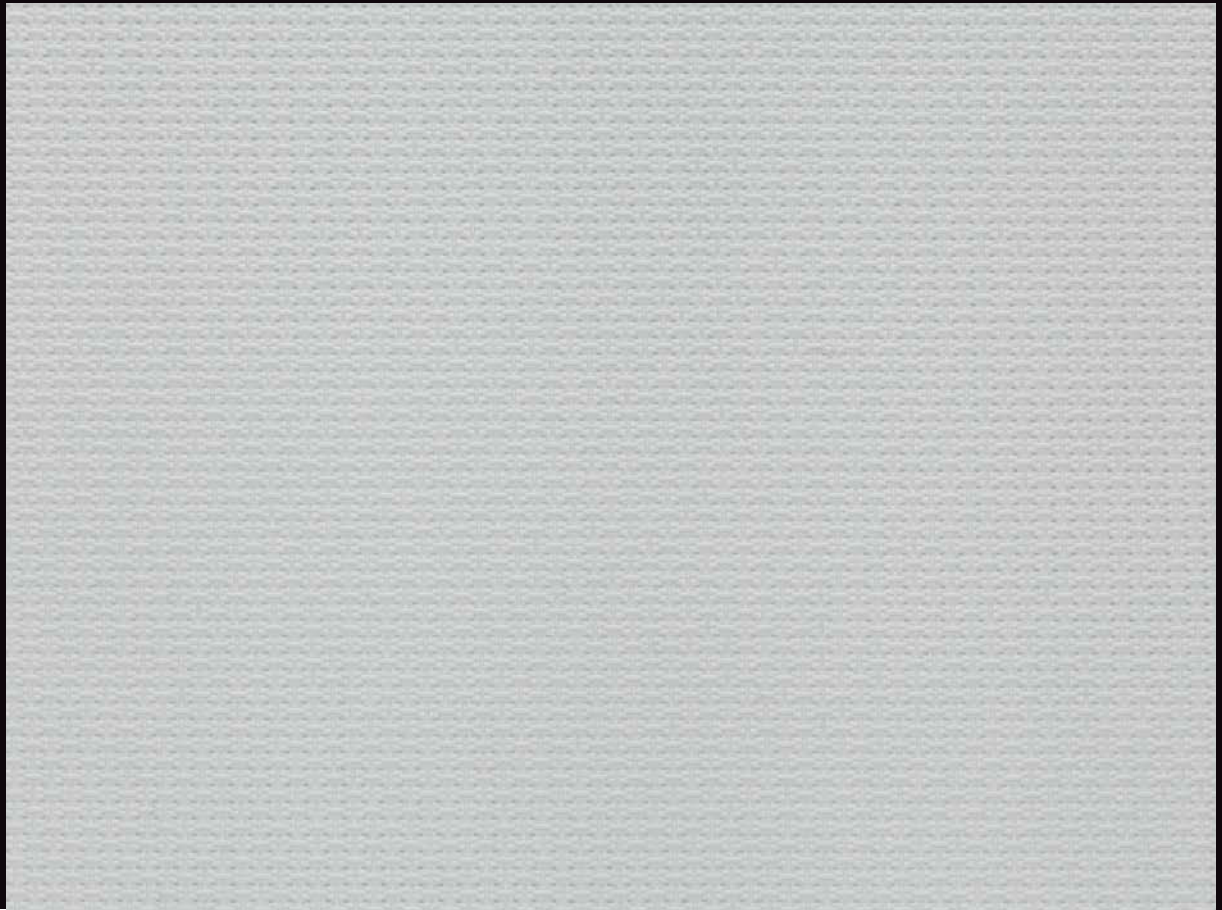
- Mineral composition designed for a MINIMUM ENVIRONMENTAL IMPACT
- INCOMBUSTIBLE, smoke emission free: M0 (NFP 92 503), Euroclass A2-s1-d0, F0
- VERY GOOD GLARE CONTROL: up to 95% (Tv = 5%) of light rays filtered, comfort classification 3 (good effect) according to EN 14501 standard
- THERMAL COMFORT: up to 82% of solar energy eliminated (gtot = 0,18 / glazing g = 0,32 and U = 1,1)
- 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®: 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		

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THERMAL AND OPTICAL FACTORS according to the European standard EN 14501

SCREEN NATURE OF 4%	Thermal factors					Optical factors
	Fabric			Fabric + Glazing / gtot internal blind		Tv
	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 ①	0,29 ②	7
1134 Bronze	7	11	82	0,54 ①	0,30 ②	6
0440 Charcoal	5	6	89	0,55 ①	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).

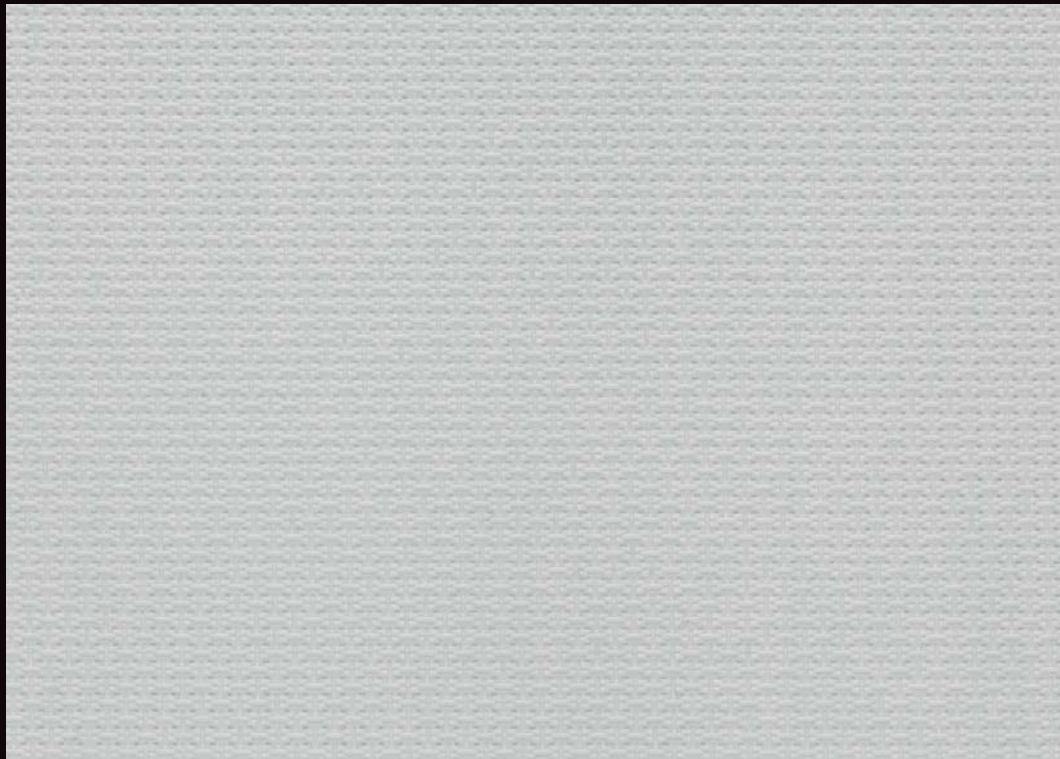
gv = 0,32: Solar factor of standard glazing (D), reflecting low-emission 4/16/4 double glazing filled with Argon (U value thermal transmittance = 1,1 W/m²K).

Classification according to EN 14501 standard: ① very little effect ② little effect ③ moderate effect ④ good effect ⑤ 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".

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INTERNAL APPLICATIONS



Roller blinds

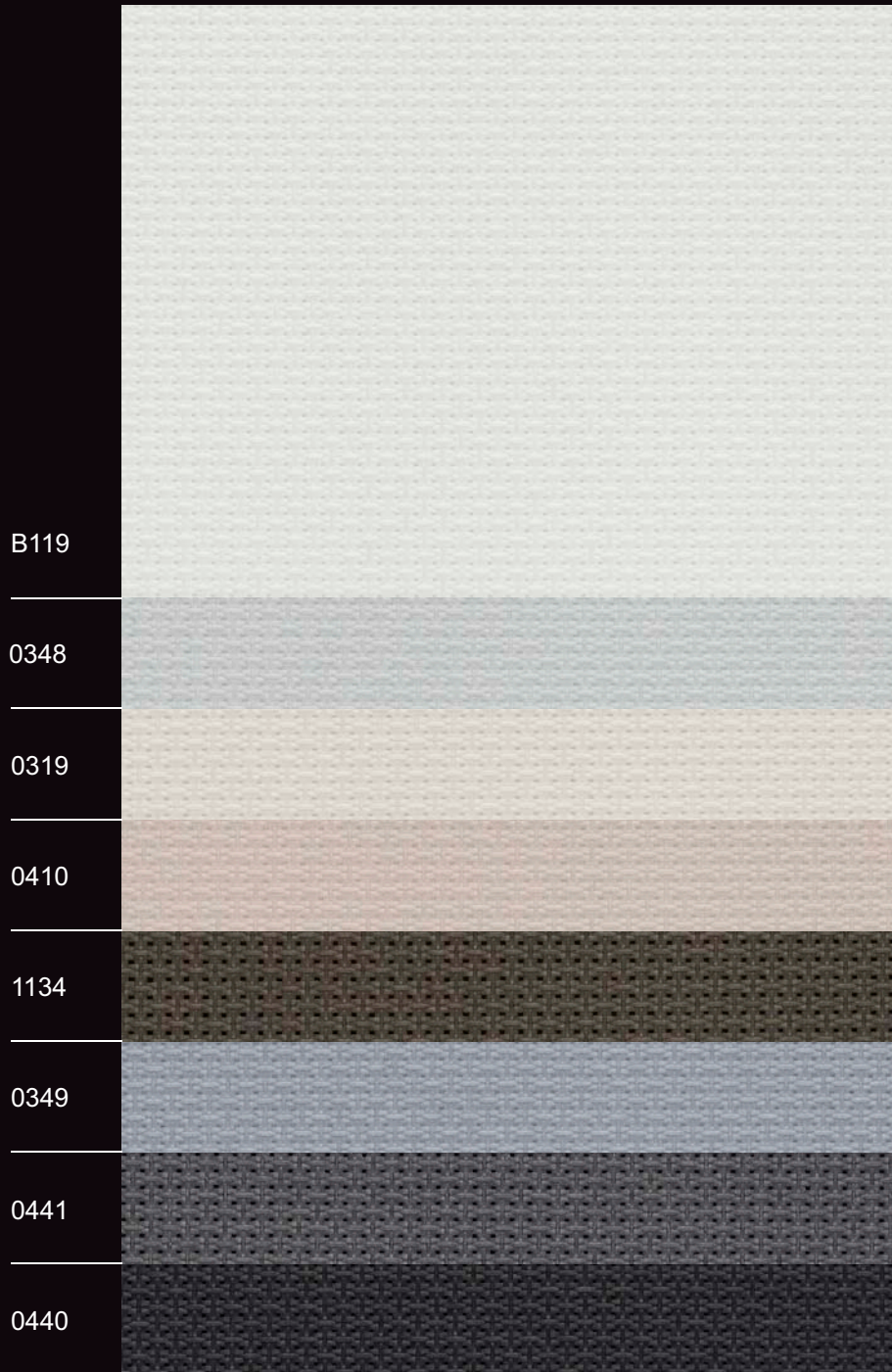


Printable



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WIDTHS: 180 - 240 CM

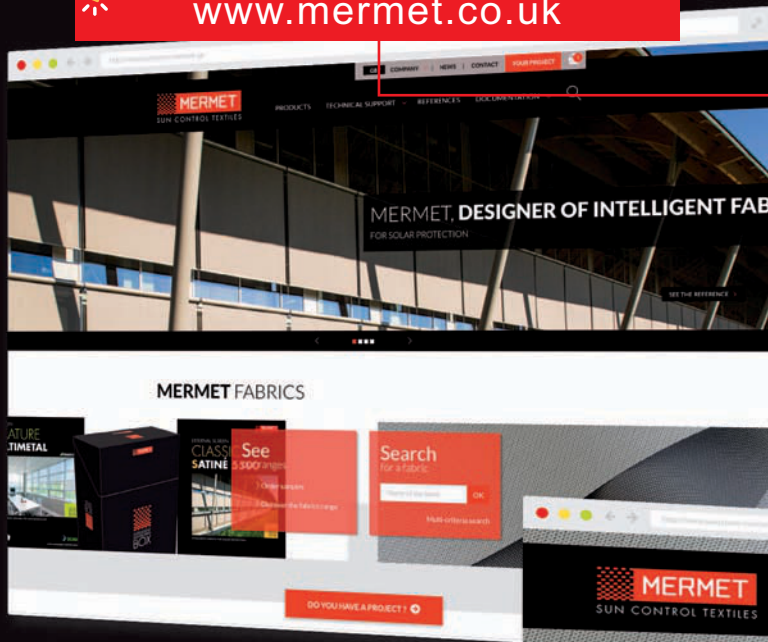


Colours may be slightly different from the actual ones

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

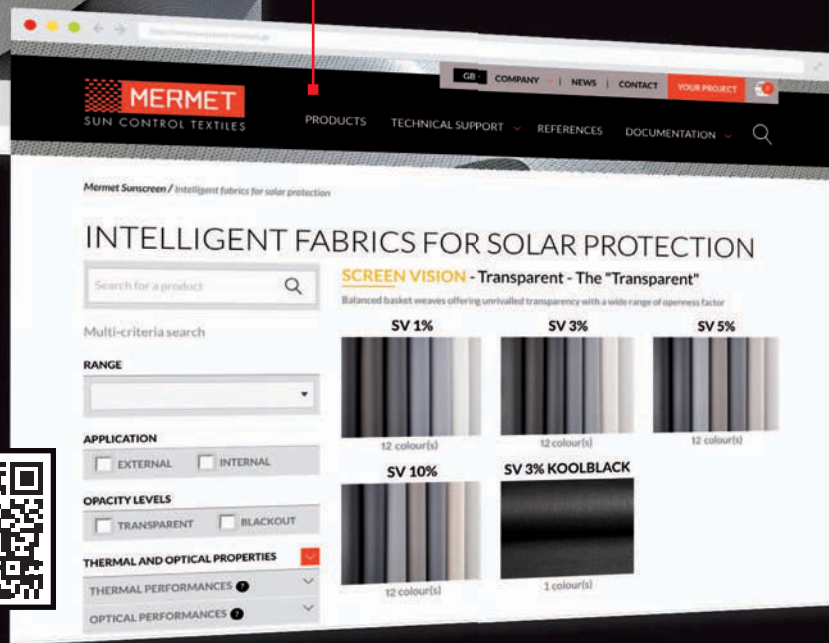
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 **MERMET COLLECTION** offers a wide choice of fabrics for external and internal application, from transparency to total darkness, for thermal and optical comfort. To receive other brochures from the collection, contact us .



SCREEN VISION / DESIGN / THERMIC / LOW

EXTERNAL SCREEN CLAS

SCREEN NA

BLACKOUT 100 %

ACOUSTIC



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