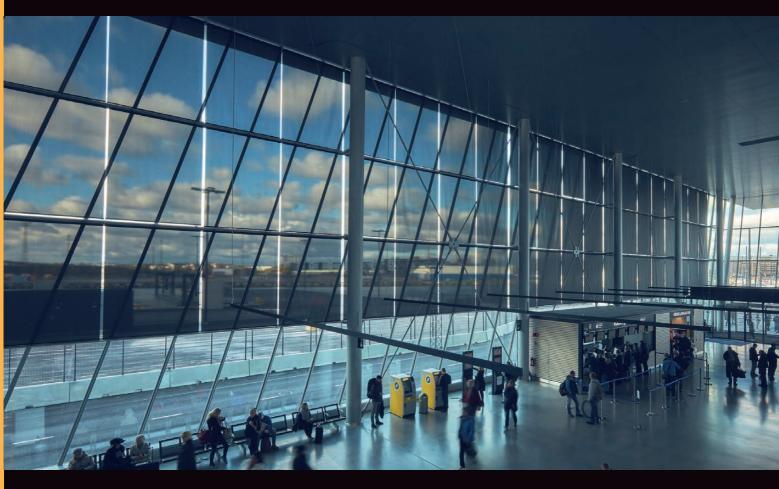


SCREEN VISION SV 3% KOOLBLACKTM



INTELLIGENT FABRICS FOR SOLAR PROTECTION



www.sunscreen-mermet.com

SV 3% KOOLBLACK

THE FIRST DARK-COLOURED SCREEN THAT COMBINES VISUAL AND THERMAL COMFORT

INVISIBLE THROUGH GLASS FACADES

THERMAL **COMFORT:** 69% OF SOLAR RADIATION REFLECTED ■ OPTIMAL CONTROL OF INDOOR HEAT with improved solar reflectance (Rs = 29%), thanks to the patented KOOLBLACK[™] technology which increases SOLAR REFLECTANCE of dark colours

EXCELLENT GLARE CONTROL: 95% of light rays filtered (Tv = 5%), comfort classification 3 (good effect) according to EN 14501 standard

Optimum OUTWARD VISIBILITY

PERFECT VISUAL INTEGRATION into the building facade when viewed from the exterior

EXTRA-WIDE WIDTH: 310 CM for large windows to create a seamless aesthetic

DIMENSIONAL STABILITY, DURABILITY (test of 10.000 cycles, class 3 NF EN 13120), MECHANICAL RESISTANCE: perfect flatness even in large dimensions

TECHNICAL DATA

Composition	36% Fibreglass - 64% PVC						
Fire, smoke classification and other official test reports	FR (USA) - NFPA 701 BS (GB) - 5867						
Health, safety	Greenguard® GOLD: Guarantee of indoor air quality (VOC) Antibacterial: More than 99% of bacteria destroyed - ASTM E 2180						
Openness factor	3%						
UV screen	95%						
Width	310 cm						
Weight/m ²	385 g ± 5% - ISO 2286 - 2						
Thickness	0,51 mm ± 5% - ISO 2286 - 3						
Colour Fasteness to light (scale of 8)	7/8 - ISO 105 B02						
Mechanical resistance	Breaking	Tear	Folding				
Warp	> 140 daN/5 cm	≥ 4 daN	≥ 20 daN/5 cm				
Weft	> 130 daN/5 cm	≥ 3 daN	≥ 20 daN/5 cm				
	ISO 1421	EN 1875-3	ISO 1421**				
Elongation (warp and weft)	< 5% - ISO 1421						
Packaging	Rolls of 27 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

KOOLBLACKTM TECHNOLOGY: TRANSPARENT THERMAL PROTECTION

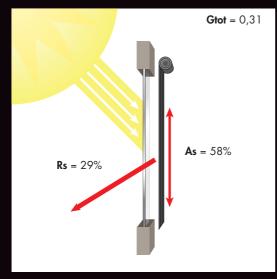
What is **KOOLBLACK™** Technology ?

KOOLBLACK[™] Technology is a patented technology that enhances dark coloured yarn's energy reflectivity by increasing its near infrared reflection (NIR). While conventional dark screen fabric provides superior view through and exceptional glare control, it absorbs the energy that is created by near infrared wavelength. KOOLBLACK[™] Technology enables the fabric to reflect more solar heat, therefore, absorb less energy.

Gtot = 0,32

CONVENTIONAL DARK SCREEN FABRIC

SV 3% KOOLBLACKTM TECHNOLOGY FABRIC COLOUR CHARCOAL

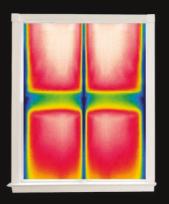


Rs: Solar reflectance As: Solar absorbance Gtot: Solar factor, fabric + glazing

KOOLBLACK™ Technology at Work

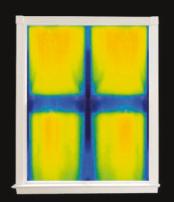
KOOLBLACK[™] Technology increases the energy efficiency of dark solar shade fabrics to the levels comparable with light colours ! Only dark solar shade fabrics with KOOLBLACK[™] Technology provide exceptional glare control, comfortable view through and elegant streetside aesthetics while reducing heat.

CONVENTIONAL DARK SCREEN FABRIC - 57.8° C



Superior view through Exceptional glare control Coordinated exterior building design

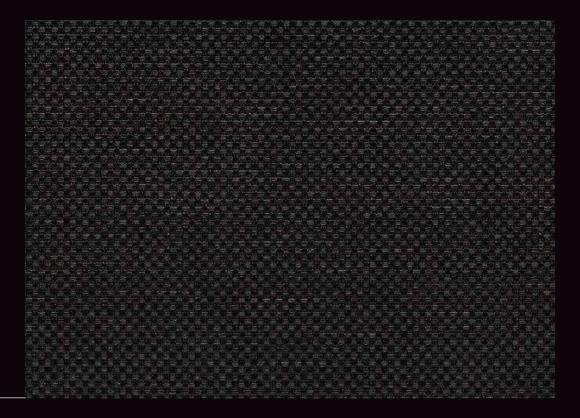
SV 3% KOOLBLACKTM TECHNOLOGY FABRIC - 47.8° C COLOUR CHARCOAL



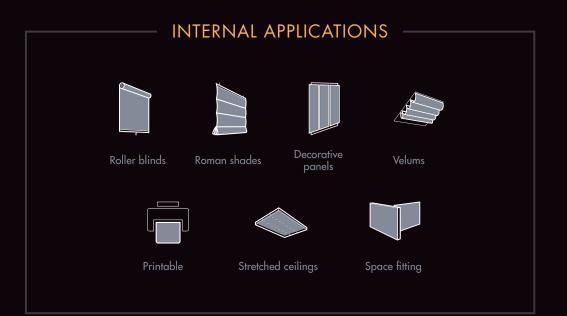
Superior view through Exceptional glare control Coordinated exterior building design IMPROVED HEAT CONTROL INCREASED ENERGY SAVINGS

(East facing window 10:00 am SC USA in April)

SV 3% KOOLBLACKTM



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AR ANTIBACTERIAL

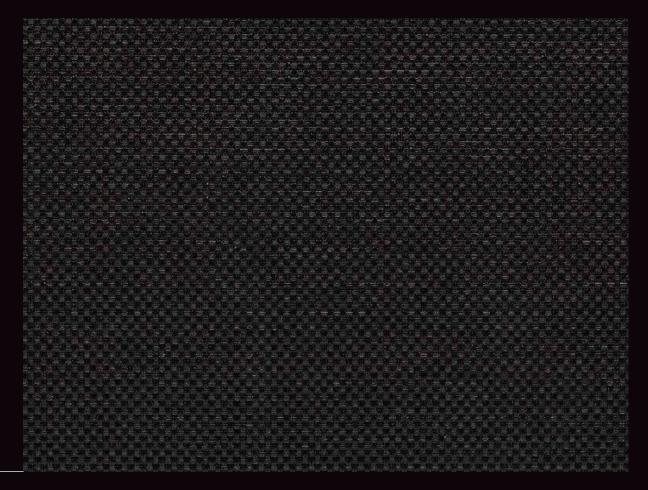


FIRE RETARDANT



10 000 CYCLES

SV 3% KOOLBLACKTM



WIDTH: 310 CM

THERMAL AND OPTICAL FACTORS in the European standard EN 14501

SV 3% KOOLBLACK™	Thermal factors					Optical factors
OF 3%	Fabric		Fabric + Glazing / gtot internal blind		Tv	
Colour	Ts	Rs	As	C : gv = 0,59	D : gv = 0,32	IV
3535 Charcoal	13	29	58	0,51 🧿	0,31 😢	5

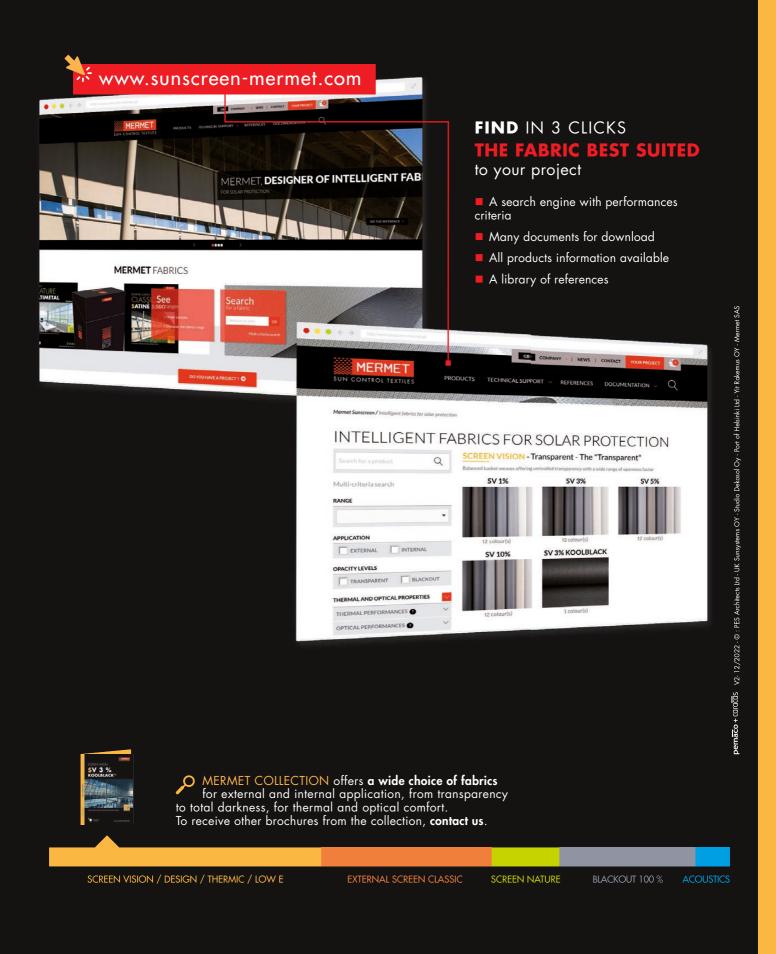
gv = 0,59: Solar factor of standard glazing (C), low-emission 4/16/4 double glazing filled with Argon (U value thermal transmittance = 1,2 W/m²K). gv = 0,32: Solar factor of standard glazing (D), reflecting low-emission 4/16/4 double glazing filled with Argon (U value thermal transmittance = 1,1 W/m²K).

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".



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



MERMET

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