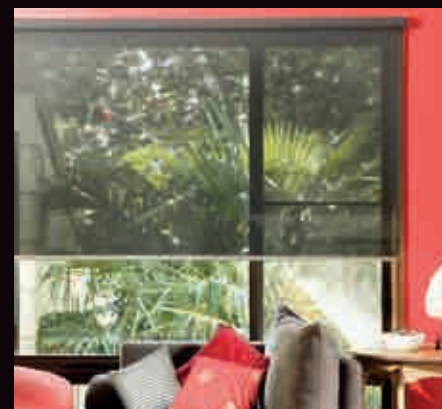




SMART SUNSCREEN



INTELLIGENT FABRICS FOR SOLAR PROTECTION



INTERNAL
APPLICATION



SCREEN LOW E - M-SCREEN ULTIMETAL®

ERRATUM - M-SCREEN ULTIMETAL®

PRODUCT NOT AVAILABLE FOR SALE

Do you have a project? Contact us.

THE

■ The
comb

TRANSMISSION (which is 1% // 3% // 5% OF THE COLOUR
SELECTED for the interior ambience

■ Highest thermal protection g_{tot} till 0,10 / glazing g = 0,32

■ **VERY LOW EMISSIVITY OF 5%.** The fabric acts as a thermal insulator
increasing **INTERIOR COMFORT IN BOTH SUMMER and WINTER**

■ **TOTAL GLARE CONTROL:** up to 97% of light rays filtered, comfort classification
3 (good effect) according to EN 14501 standard.

0202

0220

0702

0707

3001

3030

KIBO 8500

BLACKOUT 100%

**BLACKOUT VERSION OF
M-SCREEN 8505 COLOUR
RANGE**

■ 8 colours available

■ Complete privacy

■ **THERMAL COMFORT:** thanks to
its white acrylic backing facing the
window, **UP TO 89% OF SOLAR
RADIATION IS ELIMINATED**

■ High **MECHANICAL
RESISTANCE** and good
DIMENSIONAL STABILITY for
high roller blinds

0707

M-SCREEN 8505 - AVAILABLE IN 1% - 3% - 5% OF

SCREEN DESIGN

THERMAL AND VISUAL COMFORT WITH CONSISTENT
DESIGN AESTHETIC FOR INTERIOR SPACES

■ **EXCELLENT GLARE CONTROL**

■ Optimal **TRANSPARENCY** and incoming of **NATURAL LIGHT** to improve
the energy efficiency of buildings

■ Economical: **3 WIDTHS SIZES (200, 250, and 320 cm)** to reduce waste in
manufacturing fabric panels

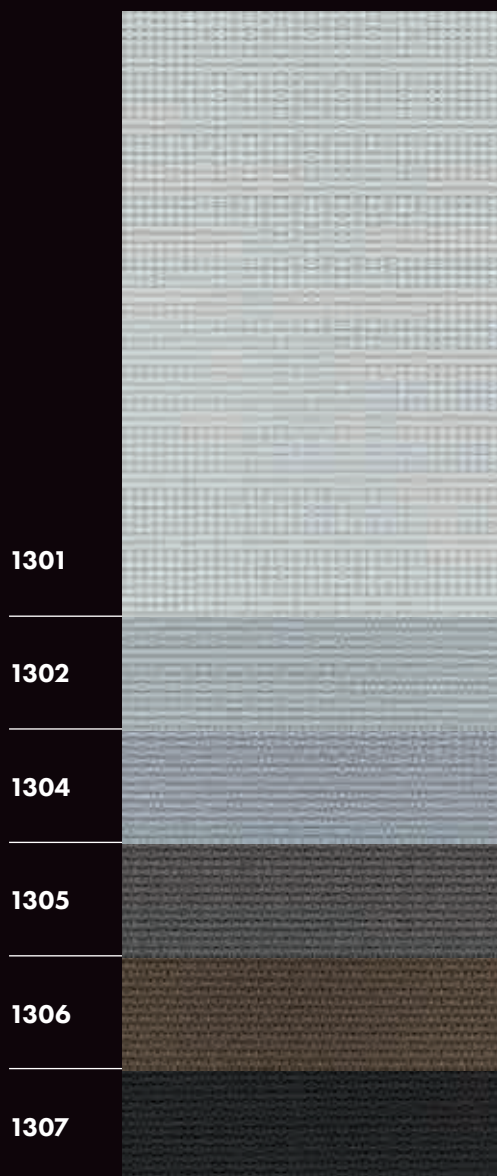
■ **22 TRENDY COLOURS**, design aesthetic for interior spaces and elegant
textile pattern

0202

0707

3030

SCREEN NATURE – SCREEN NATURE ULTIMETAL®



THERMAL AND OPTICAL COMFORT

- **INCOMBUSTIBLE**, smoke emission free:
M0 (NFP 92 503), Euroclass **A2-s1-d0, F0**
- **TRANSPARENT THERMAL SHIELD**: the **METALLIZED SIDE**, facing the window, rejects up to 88% of solar energy **IN ALL COLOURS**
($g_{tot} = 0,12$ / glazing $g = 0,32$ and $U = 1,1$ W/m²K)
- **VERY LOW EMISSIVITY OF 10%**. The fabric acts as a **THERMAL INSULATOR**, delivering interior comfort in summer and winter
- Excellent **GLARE CONTROL** ($T_v < 7\%$)

SCREEN NATURE

SCREEN NATURE

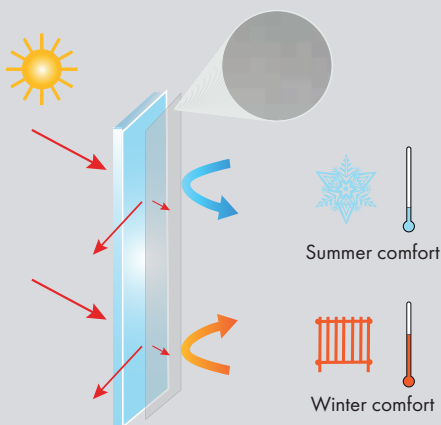
B119

0349

0440

ENVIRONMENTAL QUALITY SCREEN

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



EMISSIVITY IN FOCUS

The emissivity of a material is its ability to re-emit the energy received through conduction (heat/cold).

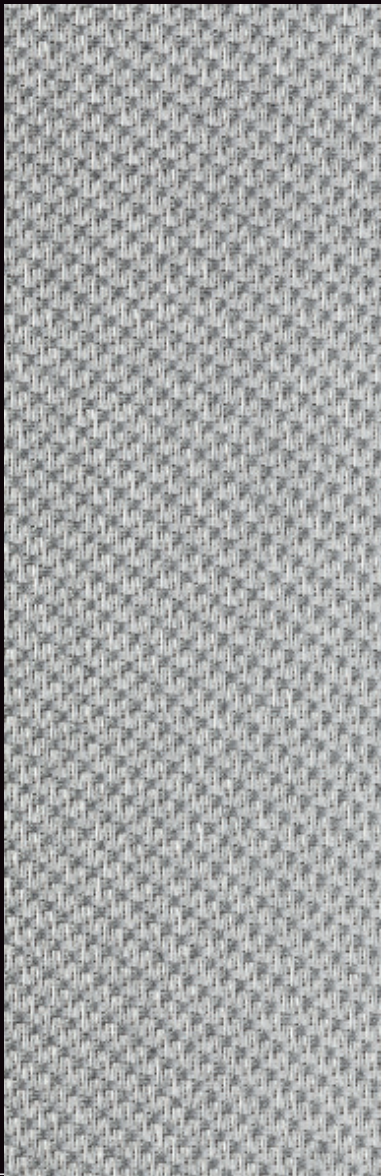
A fabric with low emissivity minimises transmission of heat or cold from the glazing.

It acts as an insulator to ensure comfort in both summer and winter, and allows to optimize the energy consumption of buildings.



To find more about the thermal & optical performances of our fabrics, contact the Prescription Department at contact@sunscreen-mermet.com or e.konopleva@sunscreen-mermet.com

SCREEN LOW E SATINÉ 5500 LOW E



LOW E

THE DOUBLE-SIDED METALLIC SCREEN

- **EXCELLENT HEAT PROTECTION.** The fabric alone **REFLECTS 88% OF SOLAR ENERGY** ($g_{tot} = 0,12$ / glazing $g = 0,32$ and $U = 1,1$ W/m^2K)
- Unequalled **EMISSION LEVEL** of **9%** to minimize transmission of heat or cold from the glazing. The fabric acts as an **INSULATOR** for the glazing, increasing **INTERIOR COMFORT IN BOTH SUMMER and WINTER**
- **EXCELLENT VISUAL COMFORT:** maintains view to the outside, optimisation of incoming natural light and **TOTAL GLARE CONTROL** ($T_v = 4\%$), comfort classification 3 (good effect) according to EN 14501 standard

SCREEN THERMIC S2 1%



0202

0220

0210

0206

0201

0230

TECHNICALLY ADVANCED TEXTILE: DOUBLE-SIDED FABRICS

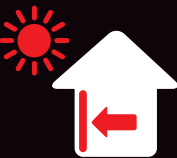
- Good outward visibility and **PERFECT GLARE CONTROL** with the dark-coloured inside facing fabric: up to **97% OF LIGHT RAYS FILTERED** ($T_v = 3\%$) comfort classification 3 (good effect) according to EN 14501 standard
- **MAXIMUM HEAT PROTECTION** with the white-coloured outside facing fabric that **REFLECTS SOLAR RADIATION:** up to 87% of solar energy eliminated ($g_{tot} = 0,13$ / glazing $g = 0,32$ and $U = 1,1$ W/m^2K)
- **AVAILABLE IN 3 % AND 5 % IN THE SAME COLOURS**

Colours may be slightly different from the actual ones

WHAT ABOUT SOLAR PROTECTION ?

Nowadays, the solar protection is a key element in the conception of sustainable construction.

Mermet's screens provide excellent comfort and well-being for the occupants (glare protection, thermal performance, transparency, ...) and reduce the energy consumption for cooling, heating and artificial lighting.



Mermet solar protection fabrics **for inside applications**, with **light** or **reflective colours** are more efficient thermally as they absorb less heat and reflect more than darker ones.

Dark colours guarantee an excellent view through and a perfect glare control. Light colours diffuse more natural light.

HEAT MANAGEMENT - THERMAL FACTORS

Rs

Solar reflectance: proportion of solar radiation reflected by the fabric. A high percentage means the fabric performs well at reflecting solar energy.

gtot

Total solar factor: percentage of solar energy which actually penetrates into a room through the blind and glazing. A low value means good thermal performance.

VISUAL MANAGEMENT - OPTICAL FACTORS

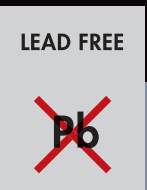
Tv

Visible light transmittance (Tvn_h): total percentage of light radiated through the fabric over a wavelength of 380 to 780 nm (nanometers), to have a glare protection it is suggested to have the Tv below 15%.

OF

Openness Factor (Tvn_n): relative area of the openings in the fabric (hole). It is considered as independent of the colour. For fabrics with the same weave, it should be measured using the darkest colour in the range.

The performances values are the **gtot factor** for thermal comfort and **Tv** for visual comfort.



FIND US ON:

bimobject



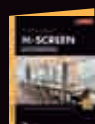
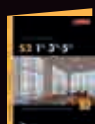
SERVICE +

- Calculation of solar factor g_{tot} (glazing + blind)
- Customized study of thermal & optical performances
- Specification sheets
- A4 samples and prototypes
- CPD training (RIBA approved)

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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 E

EXTERNAL SCREEN CLASSIC

SCREEN NATURE

BLACKOUT 100 %

ACOUSTICS



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