M-SCREEN 8501-8503-8505

Thermal and Visual Comfort with Consistent Design Aesthetic for Interior Spaces

- **3 Openness Factors**: 1%, 3%, and 5% to optimize solar protection according to the orientation of the building.
- **Excellent Glare Control** (M-Screen 8501): Up to 100% of light rays filtered \((T_V = 0\%)\), comfort classification 3 (good effect) according to EN 14501 standard.
- **Internal Thermal Comfort**: Up to 87% of solar energy rejected \((g_{tot} = 0.13 / g_{glazing} = 0.32 \text{ and } U = 1.1)\).
- **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.
- **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.

**22 Trendy Colours**

**320 cm**

Large-sized windows offering a seamless design.

**Internal Applications**

- Roller blinds
- Roman shades
- Decorative panels
- Vertical blinds
- Velums
- ZIP Roller blinds
- Printable
- Stretched ceilings
- Space fitting

**5 Year Warranty**

**Antibacterial**

**Lead Free**

**Fire Retardant**

**SMO BV 2690**

**Reach Compliant**

**10,000 Cycles**
## TECHNICAL DATA

### THERMAL AND OPTICAL FACTORS in the European standard EN 14501

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### Colours
- Charcoal Bronze
- Charcoal Apricot
- Charcoal Grey
- Charcoal
- Pearl Grey
- Grey Apricot
- Grey
- Pearl
- White Pearl
- White Linen
- White Lotus
- White Sable

### Openness factor
- Up to 100% Up to 98% Up to 96% 1% 3% 5%

### Fire, smoke classification and other official test reports
- M1 [FR] - NF EN 92 503
- B1 [DE] - DIN 4102-1 / BS 476 Pt 6 & Class O
- Euroclass C-s3,d0 (EN 13501-1 mounted according to EN 13823 & EN 14706)
- MED 2014/90/UE

### 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
- Up to 100%

### Widhts
- 200 - 320 cm

### Weight/m²
- 440 g ± 5%
- 415 g ± 5%
- 390 g ± 5%

### Thickness - ISO 2280
- 0.35 mm ± 0.5%
- 0.44 mm ± 0.5%
- 0.50 mm ± 0.5%

### Colour Fastness to light (scale of 8)
- 7/8 - ISO 105 802 (white not graded)

### Mechanical resistance
- Warp: 65 cm, ISO 1421
- Weft: 140 cm, ISO 1421

### Calculation of solar factor gtot (glazing + blind)
- gtot = 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)
- gtot = 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)

### Guarantee of indoor air quality (VOC)
- 5% ISO 4152

### Specification sheet
- A4 samples and prototypes available on request

### Training on fabrics functionality
- Service

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These product’s technical data are in conformity with this brochure as of the date of publication. MERMET SAS reserves the right to make changes to the technical data; only those provided on the company’s website www.mermet.com shall be deemed to be authentic. Where applicable, MERMET SAS also reserves the right to withdraw these products from sale should any of the technical properties or characteristics set out opposite prove to be inadequate or неделiable as a result of a change in regulations or in knowledge or understanding.

* Reports available on request, please contact Mermet

** Technical procedure derived from ISO 14501 standard

*** M-Screen 8505 only
Los colores pueden no parecerse exactamente a los colores reales.

**M-SCREEN 8505**

**WIDTHS: 200 - 250 - 320 CM**
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.