SCREEN

DESIGN

M-SCREEN 8503-8505

INTELLIGENT FABRICS FOR SOLAR PROTECTION

WIdths: Up to 320 cm

www.mermet.co.uk
# M-SCREEN 8503-8505

**DESIGN**

**M-SCREEN 8503-8505**

**THERMAL AND VISUAL COMFORT WITH CONSISTENT DESIGN AESTHETIC FOR INTERIOR SPACES**

- **36 COLOURS** available in 2 OPENNESS FACTORS 3% (8503), 5% (8505) in 200 and 250 cm wide widths
- 13 colours in the M-SCREEN 8505 range are available in 320 cm width for LARGE WINDOWS with a seamless aesthetic
- **UP TO 97% OF LIGHT RAYS FILTERED**: Glare controlled (Tv = 3%)
- Excellent VISUAL COMFORT with optimized TRANSPARENCY and heat control
- **ECONOMICAL**: 3 width sizes (200, 250 and 320 cm) to reduce waste in manufacturing fabric panels
- High mechanical resistance and dimensional stability
- **EXCELLENT DURABILITY**: Mechanical strength test of 10,000 cycles (class 3 NF EN 13120)
- Health & safety: Conforms to standard requirements for buildings open to the public
- Excellent printing medium for custom designs

### TECHNICAL DATA

<table>
<thead>
<tr>
<th></th>
<th>M-SCREEN 8503</th>
<th>M-SCREEN 8505</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Composition</strong></td>
<td>36% Fibreglass - 64% PVC</td>
<td></td>
</tr>
<tr>
<td><strong>Fire, smoke classification and other official test reports</strong></td>
<td>M1 (F) - NF P 92 503 B1 (DE) - DIN 4102-1 B5 (GB) - 476 Pt 6 Class 0 Euroclass C-s3-d0 (EU) - EN 13501-1 ISO - M5C 61(67) - A.563[14]</td>
<td>CLASE 1 (SP) - EN 13773 *** FR (US) - NFPA 701 F3 (F) - NF F 16-101 IMO - MSC 61(67) - A.563[14] **</td>
</tr>
<tr>
<td><strong>Health, safety</strong></td>
<td>Oeko-Tex Standard 100 class IV: No chemicals harmful to health and safety of users</td>
<td></td>
</tr>
<tr>
<td><strong>Greenguard</strong>: Guarantee of indoor air quality (VOC)</td>
<td>Anti microbial: More than 99% of bacteria destroyed - ASTM E 2180</td>
<td></td>
</tr>
<tr>
<td><strong>Openness factor</strong></td>
<td>3%</td>
<td>5%</td>
</tr>
<tr>
<td><strong>UV screen</strong></td>
<td>Up to 97%</td>
<td>Up to 96%</td>
</tr>
<tr>
<td><strong>Widths</strong></td>
<td>200 - 250 cm</td>
<td>200 - 250 - 320 cm (depending on colours)</td>
</tr>
<tr>
<td><strong>Weight/m²</strong></td>
<td>405 g ± 5 % - ISO 2286 - 2</td>
<td>390 g ± 5 % - ISO 2286 - 2</td>
</tr>
<tr>
<td><strong>Thickness</strong></td>
<td>0,50 mm ± 5% - ISO 2286 - 3</td>
<td></td>
</tr>
<tr>
<td><strong>Mechanical resistance</strong></td>
<td>Breaking &amp; Tear &amp; Folding</td>
<td></td>
</tr>
<tr>
<td><strong>Warp</strong></td>
<td>&gt; 120 daN/cm</td>
<td>≥ 5 daN</td>
</tr>
<tr>
<td><strong>Welt</strong></td>
<td>&gt; 150 daN/cm</td>
<td>≥ 4 daN</td>
</tr>
<tr>
<td><strong>Elongation</strong> (warp and weft)</td>
<td>&lt; 5% - ISO 1421</td>
<td></td>
</tr>
<tr>
<td><strong>Colour Fastness to light</strong> (scale of 8)</td>
<td>7/8 - ISO 105 002 (white not graded)</td>
<td></td>
</tr>
<tr>
<td><strong>Packaging</strong></td>
<td>Rolls of 33 lm</td>
<td></td>
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<tr>
<td><strong>Making up</strong></td>
<td>Advice note on request</td>
<td></td>
</tr>
</tbody>
</table>

These 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 these products 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

*** Only M-Screen 8505
**Thermal and Optical Factors** in the European standard EN 14501

### Technical Data

<table>
<thead>
<tr>
<th>M-Screen 8503</th>
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<th>Colour</th>
<th>Thermal</th>
<th>Glazing</th>
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</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>透过率 (透光率)</td>
<td>太阳能透过率 (太阳光透过率)</td>
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<td></td>
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<td>透过率</td>
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<td>透过率</td>
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### Optical Factors

- **Daylight utilisation**
- **Glare control**
- **Night privacy**
- **Outdoor visibility**

### Characteristics

- **Mechanical resistance**
  - Breaking Tear
  - Folding

- **Thickness**
  - 0.65 mm ± 5% - ISO 2286 - 3
  - 0.68 mm ± 5% - ISO 2286 - 3
  - 0.68 mm ± 5% - ISO 2286 - 3

- **Elongation**
  - 28
  - 30
  - 12
  - 13

- **Ts, Rs, As**
  - 82
  - 81
  - 0.53

- **Fire, smoke classification**
  - Euroclass C-s3-d0
  - GB - 5867 B1

- **Antibacterial**
  - More than 99% of bacteria destroyed - ASTM E 2180

- **Utilisation**

### Available on request:

- 5
  - 5
  - 7
  - 10

### Notes:

- Contact classification according to EN 14501 standard:
  - Very good effect
  - Good effect
  - Fairly good effect
  - Fairly poor effect
  - Poor effect

- Available upon request.
- Spectral values.
- Calculation of solar factor plot of our fabrics with the glazing of the project.
2015
2018
COLLECTION
2018
COLLECTION
Colours may be slightly different from the actual ones

2 widths: 200, 250 cm
Extra width: 320 cm (M-Screen 8505)
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