BLACKOUT 100%

SATINÉ 21154

INTELLIGENT FABRICS FOR SOLAR PROTECTION

Width: 210 cm

www.sunscreen-mermet.com
BLACKOUT 100% SATINÉ 21154

THE BLACKOUT FABRIC WHICH MATCHES SATINE 5500 FABRIC FOR THE BALANCE OF THE FACADE

- THE BLACKOUT SCREEN-LOOKING FABRIC for EXTERNAL and INTERNAL TOTAL BLACKOUT roller blind systems (with retentive buttons/studs, deep side channels...)
- Perfect match with SIDE CHANNELS SYSTEMS such as ZIP
- 100% OF LIGHT AND UV RAYS BLOCKED AT 100,000 LUX (500 watts of light)
- THERMAL COMFORT: rejects up to 97% of SOLAR ENERGY (gtot = 0,03 /glazing g = 0,32 and U = 1,1) when installed externally
- HARMONY OF THE FAÇADE: the colours can be coordinated with those of the SATINÉ 5500 transparent fabric
- WIDE WIDTH OF 210 CM to equip large windows, with or without welding
- The blackout fabric with M1 (NF 92 503) FIRE CLASSIFICATION
- Health/Safety: conforms to standard requirements for buildings open to the public
- EASY CLEANING: wash with a wet sponge
- WATERPROOF, weatherproof
Colours may be slightly different from the actual ones
**TECHNICAL DATA**

### SATINE 21154

**Composition**
28 % Fibreglass - 72 % PVC

**Fire, smoke classification and other official test reports***
- EN 913 (F): NFP 92 503
- BS (GB): 476 Pt 6 & 7 Class O
- PCS: 14.2 MJ/kg (9,40 MJ/m²)

**Openness factor**
0 %

**Opacity**
100 % to 100,000 lux (500 W)

**UV screen**
100 %

**Width**
210 cm

**Weight/m²**
660 g ± 10 % - ISO 2286 - 2

**Thickness**
0.75 mm ± 10 % - ISO 2286 - 3

**Mechanical resistance**

<table>
<thead>
<tr>
<th></th>
<th>Breaking</th>
<th>Tear</th>
<th>Folding</th>
</tr>
</thead>
<tbody>
<tr>
<td>Warp</td>
<td>&gt; 225 daN/5 cm</td>
<td>≥ 7 daN</td>
<td>≥ 150 daN/5 cm</td>
</tr>
<tr>
<td>Weft</td>
<td>&gt; 190 daN/5 cm</td>
<td>≥ 7 daN</td>
<td>≥ 100 daN/5 cm</td>
</tr>
<tr>
<td>ISO 1421</td>
<td>EN 1875-3</td>
<td>ISO 1421 **</td>
<td></td>
</tr>
</tbody>
</table>

**Elongation (warp and weft)**
< 5 % - ISO 1421

**Colour Fastness to light** [scale of 8]
- Screen side: 7 - ISO 105 B02 (white not graded)
- Backing side: 7/8 - ISO 105 B02 and ISO 105 B04

**Packaging**
Rolls of 33 lm

**Making up**
Advice note on request - Making up of fabric panels with retentive systems on the side edges (with retentive buttons/studs, deep side channels...)

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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 MERMET SAS 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

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

<table>
<thead>
<tr>
<th>SATINE 21154 - OF 0%</th>
<th>Thermal factors</th>
<th>Optical factors</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Fabric</td>
<td>Fabric + Glazing</td>
</tr>
<tr>
<td></td>
<td>Tt</td>
<td>Rr</td>
</tr>
<tr>
<td></td>
<td>Daylight utilisation</td>
<td>Glare control</td>
</tr>
<tr>
<td>Grey Backing</td>
<td>0</td>
<td>35</td>
</tr>
<tr>
<td>0202 White</td>
<td>0</td>
<td>68</td>
</tr>
<tr>
<td>2020 Linen</td>
<td>0</td>
<td>55</td>
</tr>
<tr>
<td>0210 White Sable</td>
<td>0</td>
<td>52</td>
</tr>
<tr>
<td>0707 Pearl</td>
<td>0</td>
<td>37</td>
</tr>
<tr>
<td>0102 Grey White</td>
<td>0</td>
<td>41</td>
</tr>
<tr>
<td>0101 Grey</td>
<td>0</td>
<td>21</td>
</tr>
<tr>
<td>3030 Charcoal</td>
<td>0</td>
<td>7</td>
</tr>
</tbody>
</table>

- g = 0.59 solar factor of standard glazing (C), low emission 4/16/4 double glazing filled with Argon (U value thermal transmittance = 1,3 W/m²K)
- g = 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)

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Samples tested according to EN 14500 standard defining the measurements and calculation methods as specified in the standard EN 13363-1 “Solar protection devices combined with glazing - calculation of solar and light transmittance - Part 1: simplified method” and EN 410 “Glass in building - Determination of luminous and solar characteristics of glazing”.

**Comfort classification according to EN 14501 standard**
- Very little effect
- Little effect
- Moderate effect
- Good effect
- Very good effect

Available on request:
- Spectral values
- Calculation of solar factor gtot of our fabrics with the glazings of the project

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1 width: 210 cm