

# SELECTION GUIDE

INTELLIGENT FABRICS FOR SOLAR PROTECTION

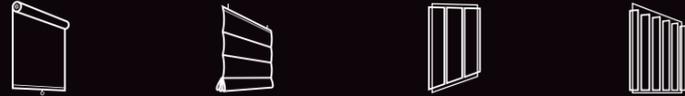
# IN 6 STEPS

## SELECT YOUR INTELLIGENT FABRIC

COLLECTION  
2015  
2018

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### APPLICATION TYPE



|                         |  | Roller blinds | Roman shades | Decorative panels | Vertical blinds |
|-------------------------|--|---------------|--------------|-------------------|-----------------|
| SCREEN VISION           | SV 1%                                  | int.          | int.         | int.              | int.            |
|                         | SV 3%                                  | int.          | int.         | int.              | int.            |
|                         | SV 5%                                  | int.          | int.         | int.              | int.            |
|                         | SV 10%                                 | int.          | int.         | int.              | int.            |
|                         | SV 3% KOOLBLACK™                       | int.          | int.         | int.              |                 |
| SCREEN DESIGN           | M-SCREEN 8501                          | int.          | int.         | int.              | int.            |
|                         | M-SCREEN 8503                          | int.          | int.         | int.              | int.            |
|                         | M-SCREEN 8505                          | int.          | int.         | int.              | int.            |
|                         | NATURA™ Tissu de fils de verre enduits | int.          | int.         | int.              |                 |
|                         | S-SCREEN                               | int.          | int.         | int.              |                 |
| SCREEN THERMIC          | S2 1%                                  | int.          | int.         | int.              | int.            |
|                         | S2 3%                                  | int.          | int.         | int.              | int.            |
|                         | S2 5%                                  | int.          | int.         | int.              | int.            |
| SCREEN LOW E            | SATINÉ 5500 LOW E                      | int.          |              |                   |                 |
| EXTERNAL SCREEN CLASSIC | 5500 MÉTAL                             | int./ext.     |              | int.              |                 |
|                         | SATINÉ 5500                            | int./ext.     |              | int.              |                 |
|                         | NATTÉ 4503                             | int./ext.     |              | int.              |                 |
|                         | ULTRAVISION                            | int./ext.     |              | int.              |                 |
| SCREEN NATURE           | SCREEN NATURE                          | int.          |              |                   |                 |
|                         | SCREEN NATURE ULTIMETAL                | int.          |              |                   |                 |
| BLACKOUT 100%           | KIBO 8500                              | int.          | int.         | int.              |                 |
|                         | FLOCKÉ 11201                           | int.          | int.         | int.              | int.            |
|                         | KARELLIS 11301                         | int.          |              | int.              |                 |
|                         | SATINÉ 21154                           | int./ext.     |              |                   |                 |
| ACOUSTICS               | ACOUSTIS® 50                           | int.          | int.         | int.              |                 |

int. = internal    ext. = external    int./ext. = internal and external

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| Projection shades | Velums    | Tensile structures* | Stretched ceilings | Printing  | Space fitting |
|-------------------|-----------|---------------------|--------------------|-----------|---------------|
|                   | int.      | int.                | int.               | int.      | int.          |
|                   | int.      | int.                | int.               | int.      | int.          |
|                   | int.      | int.                | int.               | int.      | int.          |
|                   | int.      | int.                | int.               | int.      | int.          |
|                   | int.      | int.                | int.               | int.      | int.          |
|                   | int.      | int.                | int.               | int.      | int.          |
|                   | int.      | int.                | int.               | int.      | int.          |
|                   | int.      | int.                | int.               | int.      | int.          |
| ext.              | int./ext. | int./ext.           | int.               | int./ext. | int./ext.     |
| ext.              | int./ext. | int./ext.           | int.               | int./ext. | int./ext.     |
| ext.              | int./ext. | int./ext.           | int.               | int./ext. | int./ext.     |
| ext.              | int./ext. | int./ext.           | int.               | int./ext. | int./ext.     |
|                   |           |                     |                    | int.      | int.          |
|                   |           |                     |                    |           | int.          |
|                   | int.      | int.                |                    | int.      | int.          |
|                   | int.      |                     |                    | int.      | int.          |
|                   | int.      |                     |                    | int.      | int.          |
|                   |           |                     |                    | int./ext. | int./ext.     |
|                   | int.      | int.                | int.               | int.      | int.          |

\* Please contact us in case of use with tensioned system.

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THERMAL  
COMFORT

3

VISUAL  
COMFORT

4

PRIVACY

5

PROTECTION  
AGAINST UV

6

EXTRA WIDTH

|                            |  | Thermal comfort<br>Solar factor / Low gtot |             | Daylight utilisation<br>High Tv |             | Glare control<br>Low Tv |             | Night privacy |             | Outward visibility |             | Daytime privacy<br>Opacifier | Total light<br>blockout | Protection<br>against UV | Max. width |
|----------------------------|--|--|-------------|---------------------------------|-------------|-------------------------|-------------|---------------|-------------|--------------------|-------------|------------------------------|-------------------------|--------------------------|------------|
|                            |  | Light colour                               | Dark colour | Light colour                    | Dark colour | Light colour            | Dark colour | Light colour  | Dark colour | Light colour       | Dark colour |                              |                         |                          |            |
| SCREEN VISION              | SV 1%                                  | 2  | 0           | 2                               | 0           | 1                       | 3           | 2             | 2           | 0                  | 2           | Complete                     |                         | Up to 99%                | 320 cm     |
|                            | SV 3%                                  | 2  | 0           | 2                               | 0           | 1                       | 3           | 2             | 2           | 1                  | 2           | Moderate                     |                         | Up to 98%                | 320 cm     |
|                            | SV 5%                                  | 2  | 0           | 2                               | 1           | 0                       | 1           | 1             | 1           | 1                  | 3           | Moderate                     |                         | Up to 94%                | 320 cm     |
|                            | SV 10%                                 | 2  | 0           | 2                               | 1           | 0                       | 1           | 0             | 1           | 2                  | 3           | Low                          |                         | Up to 90%                | 320 cm     |
|                            | SV 3% KOOLBLACK™                       | /  | 0           | /                               | 1           | /                       | 3           | /             | 2           | /                  | 2           | Moderate                     |                         | 95%                      | 310 cm     |
| SCREEN DESIGN              | M-SCREEN 8501                          | 2  | 0           | 2                               | 0           | 1                       | 3           | 2             | 2           | 0                  | 2           | Complete                     |                         | Up to 99%                | 320 cm     |
|                            | M-SCREEN 8503                          | 2  | 0           | 2                               | 1           | 1                       | 3           | 2             | 2           | 0                  | 2           | Moderate                     |                         | Up to 98%                | 250 cm     |
|                            | M-SCREEN 8505                          | 2  | 0           | 2                               | 1           | 1                       | 3           | 2             | 2           | 0                  | 2           | Moderate                     |                         | Up to 96%                | 320 cm     |
|                            | NATURA™ Tissu de fils de verre enduits | 2  | 0           | 2                               | 1           | 0                       | 1           | 1             | 1           | 2                  | 3           | Moderate                     |                         | Up to 94%                | 250 cm     |
|                            | S-SCREEN                               | 2  | 0           | 1                               | 1           | 0                       | 3           | 1             | 2           | 2                  | 2           | Moderate                     |                         | Up to 96%                | 310 cm     |
| SCREEN THERMIC             | S2 1%                                  | 2  | 1           | 2                               | 1           | 1                       | 3           | 2             | 2           | 0                  | 2           | Complete                     |                         | Up to 99%                | 250 cm     |
|                            | S2 3%                                  | 2  | 1           | 2                               | 1           | 1                       | 2           | 2             | 2           | 0                  | 2           | Moderate                     |                         | Up to 97%                | 250 cm     |
|                            | S2 5%                                  | 2  | 1           | 2                               | 1           | 1                       | 1           | 2             | 2           | 0                  | 1           | Moderate                     |                         | Up to 96%                | 250 cm     |
| SCREEN LOW E               | SATINÉ 5500 LOW E                      | 2  | /           | 1                               | /           | 3                       | /           | 2             | /           | 2                  | /           | Moderate                     |                         | 96%                      | 240 cm     |
| EXTERNAL SCREEN<br>CLASSIC | 5500 MÉTAL                             | 3  | 4           | 2                               | 1           | 1                       | 3           | 2             | 2           | 1                  | 2           | Complete                     |                         | Up to 99%                | 285 cm     |
|                            | SATINÉ 5500                            | 2  | 4           | 2                               | 1           | 1                       | 3           | 2             | 2           | 0                  | 2           | Moderate                     |                         | Up to 96%                | 320 cm     |
|                            | NATTÉ 4503                             | 3  | 4           | 2                               | 1           | 1                       | 3           | 2             | 2           | 1                  | 2           | Moderate                     |                         | Up to 97%                | 250 cm     |
|                            | ULTRAVISION                            | 2  | 2           | 3                               | 2           | 0                       | 0           | 0             | 0           | 3                  | 3           | Low                          |                         | Up to 76%                | 250 cm     |
| SCREEN NATURE              | SCREEN NATURE                          | 1  | 0           | 3                               | 1           | 1                       | 3           | 2             | 2           | 0                  | 2           | Moderate                     |                         | Up to 95%                | 240 cm     |
|                            | SCREEN NATURE ULTIMETAL                | 2  | 1           | 1                               | 1           | 2                       | 3           | 2             | 2           | 2                  | 2           | Moderate                     |                         | Up to 95%                | 240 cm     |
| BLACKOUT 100%              | KIBO 8500                              | 2  | 0           | 0                               | 0           | 4                       | 4           | 4             | 4           | 0                  | 0           | Complete                     | Yes                     | 100%                     | 250 cm     |
|                            | FLOCKÉ 11201                           | 2  | 0           | 0                               | 0           | 4                       | 4           | 4             | 4           | 0                  | 0           | Complete                     | Yes                     | 100%                     | 240 cm     |
|                            | KARELLIS 11301                         | 2  | 0           | 0                               | 0           | 4                       | 4           | 4             | 4           | 0                  | 0           | Complete                     | Yes                     | 100%                     | 300 cm     |
|                            | SATINÉ 21154                           | 4  | 4           | 0                               | 0           | 4                       | 4           | 4             | 4           | 0                  | 0           | Complete                     | Yes                     | 100%                     | 210 cm     |
| ACOUSTICS                  | ACOUSTIS® 50                           | 2  | 0           | 2                               | 0           | 1                       | 3           | 2             | 2           | 0                  | 2           | Complete                     |                         | Up to 99%                | 250 cm     |

Classification of thermal and visual comfort in accordance with the EN 14501 standard:  
 0 very little effect 1 little effect 2 moderate effect 3 good effect 4 very good effect

## REGULATIONS

Mermet® solar protection fabrics comply with the most demanding regulations applicable to public buildings

### A FEW PRINCIPLES OF SOLAR PROTECTION

to ensure thermal comfort ...



By being located outside, solar protection fabrics are able to offer enhanced thermal protection as the amount of the sunlight absorbed (As) by the fabric in front of the glass is emitted to the outside. Dark colours outside offer better protection against heat than light colours as they absorb more solar energy (lower Ts). Mermet® fabrics are able to meet the Class 4 requirements of the EN 14501 standard depending on the selected colour.



On the contrary, inside, the lighter or more reflective colours are more efficient as they absorb less heat (lower As) and reflect more (Rs) than dark colours.

... and visual comfort

Dark colours offer better transparency and enhanced glare control



No chemicals harmful to health and safety of users



Guarantee of indoor air quality (VOC)



More than 99% of bacteria destroyed - ASTM E 2180



Guaranteed lead-free fabrics



Non-flammable, the fabrics from the Mermet® collection fully comply with the world's most demanding fire safety regulations



Ability for the material to be used in a marine environment in a total security



EU regulation covering the registration, assessment and authorisation of chemical substances, including the restrictions that apply to these substances (REACH)



German Sustainable Building Council - objective of promoting sustainability in the construction sector via durable and economically efficient buildings



Solar protection fabrics from the Mermet® collection, manufactured from coated glass fibre or prepared glass-yarn fabrics, are covered by a 5-year warranty



Mechanical endurance test to ensure the durability of the product in accordance with EN 13120 and EN 13561 standard



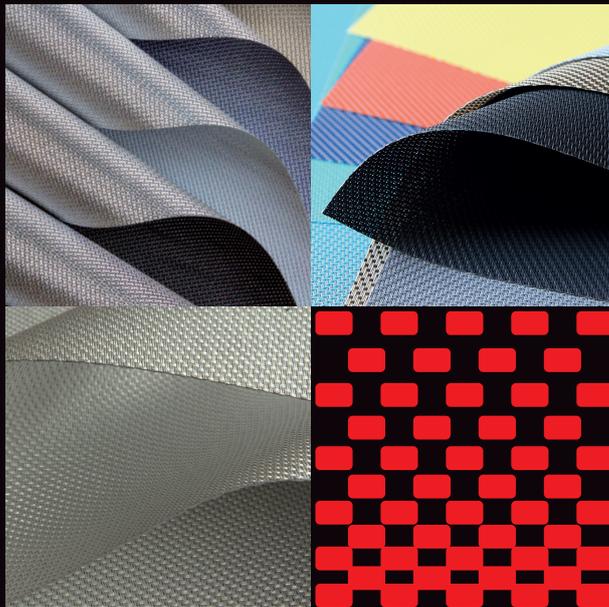
Guarantee of the technical properties of Mermet® fabrics based on coated glass fibre



The emissivity of a material is its capacity to re-emit the energy it receives via the effect of conduction (heat/cold). A fabric with low emissivity will restrict the diffusion effect to the interior, thereby limiting the effect of cold in the winter and of heat in the summer



Struggling against the noise, controlling the soundscape and enhancing the intelligibility of speech all contribute to acoustic comfort



[www.sunscreen-mermet.com](http://www.sunscreen-mermet.com)



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