

PRESS RELEASE

## **Mermet, solar protection fabrics supporting energy performance**

Solar protection is a key factor in the design of today's sustainable buildings. It helps improve energy consumption by reducing requirements for heating, air conditioning and artificial lighting.

It plays an equally important role in occupants' comfort and well-being by controlling natural light and optimising thermal protection and transparency.

In order to respond to these challenges the French manufacturer Mermet, market leader in the design of hi-tech fabrics for solar protection, offers a range of products recognised for their high levels of performances in both interior and exterior applications.

### **In interior applications, metallic fabrics offer unrivalled excellence**

- **The high-performance metallic screen, the M-Screen Ultimetal® fabric from Mermet, is unique**

With a screen side and a metallic side, regardless of the selected colour the M-Screen Ultimetal® offers both a high level of protection against heat and perfect light control. It combines:

- Thermal comfort: reflects back up to 90% of the solar energy (gtot = 0.10 / glazing g = 0.32 and U = 1.1) and provides a very high solar reflection level of 83%

The fabric also acts as a thermal insulator for the glass thanks to its very low emissivity (5%).

- Visual comfort thanks to comprehensive glare control: it filters up to 97% of sunlight and benefits from very low visual transmission (VT: 3%) while maintaining a high level of transparency
- Easy maintenance thanks to its water-repellent coating, enabling it to be installed in humid atmospheres or those liable to condensation (double-skin facade)

It is available in 7 colours and 2 widths (200 cm and 285 cm).

- **The Screen Nature Ultimetal®, the transparent thermal shield**

Health, safety and optical & thermal performance... its advantages are undeniable:

- Its mineral composition has a minimal impact on the environment: free of PVC, halogen or polyester. Non-combustible and free of smoke emissions, it is rated M0 (NFP 92 503), EUROCLASS A2-s1-d0, F0
- Thermal comfort: its metallic side facing the glass reflects back up to 88% of the solar energy (gtot = 0.12 / glazing g = 0.32 and U = 1.1).

It also stands out thanks to excellent solar reflection of 74% and one of the lowest levels of emissivity on the market (10%)

- Visual comfort: it offers very good glare control (up to 96% of sunlight filtered out) and excellent transparency

An elegant and very thin fabric, ideal for blinds in small spaces, the Screen Nature Ultimetal® is available in 7 colours and 2 widths (180 cm and 240 cm depending on the colour).

### **In exterior applications, the perfect partner for all types of facade: the Satiné 5500 fabric**

- **The most extensive range on the market**

Available in 52 double-sided colours, this fabric is offered in 4 widths of up to 320 cm to fit out wide windows without a seam.

Its properties are highly acclaimed:

- Unrivalled protection against heat: up to 96% of the solar energy is reflected back in exterior applications (gtot of 0.04 with standard glazing g = 0.32 and U = 1.1)
- Ideal visual comfort with excellent glare control thanks to its diagonal satin weave while optimising the intake of natural light: up to 96% of light rays are filtered out (Tv: 4%)
- High quality transparency, maintaining perfect exterior vision

The Satiné 5500 also stands out for its:

- Excellent dimensional stability for large-dimension vertical blinds and its perfect suitability for ZIP applications
- M1 fire protection classification to meet the requirements of public buildings
- Remarkable durability: 10,000-cycle mechanical endurance test, Class 3 NF EN 13561

Designed to meet the highest of standards, Mermet's fabrics stand out thanks to their functionality, durability and aesthetic qualities. In terms of performance, they contribute to gaining credits for eco-efficient building programmes and have gained worldwide acclaim. A few recent examples:

- Spain: the Screen Nature fabric adorns the head offices of the law firm Cuatrecasas - LEED® GOLD certified;
- France: the Satiné 5500 fabric in an exterior application for the "Be Open" building - HQE™ building certification (Excellent), BREEAM® (Very Good) and Effinergie+, and the Satiné 5500 Low E fabric inside the UNOFI head offices - HQE™ building certification (Excellent);
- Netherlands: the Screen Nature and Screen Nature Ultimetal® fabrics at the head offices of TNT - LEED® certification (Platinum);
- South Africa: the Screen Nature Ultimetal® fabric at the brand new low-energy building of Werksmans in Sandton - BBC certification.