

# MERMET

HIGH PERFORMANCE

## OPTIMAL 5

Optimal balance between visual and thermal performance thanks to its double-sided pattern

**COLOUR** 00020002 White (Side A)



<b>WIDTH(S)</b>	250, 320 cm
<b>DENSITY</b>	5%
<b>VISUAL COMFORT - WHITE (SIDE A)</b>	
Glare control	0
View through	1
Privacy	1
Daylight	2
<b>THERMAL COMFORT WITH GLAZING F</b>	
Class interior	2
<b>THERMAL AND VISUAL PROPERTIES</b>	
Solar Reflectance Rs	64,0%
Solar Transmittance Ts	23,8%
Interior g-tot - Glazing F	0,307
Visual Transmittance Tv	0,236
Diffuse Visual Transmittance Tv <sub>n-dif</sub>	0,184
Direct Visual Transmittance Tv <sub>n-n</sub>	0,053

# ABOUT THIS RANGE



Unlock augmented features with our cutting-edge fabrics, delivering high added value and best-in-class performance for glare control, temperature management or acoustical comfort.

## OPTIMAL 5

- ✓ Optimal balance between visual and thermal performance thanks to its double-sided pattern
- ✓ Dark-coloured side for a good view to the outside
- ✓ Reflective white side for thermal comfort
- ✓ 2 other densities for tailored solar shading based on building orientation
- ✓ Extra wide width (320 cm)

# TECHNICAL DATA

## GENERAL FABRIC PROPERTIES

	Average value	Standard
Weighted composition	36% Fibreglass - 64% PVC	
Weaving pattern	Satin	
Width(s)	250, 320 cm	
Roll length (nominal)	Rolls of 33 lm	
Surface mass (weight)	412 g/m <sup>2</sup> ± 5%	ISO 2286-2
Thickness	0.6 mm ± 5%	ISO 2286-3
Colour fastness to artificial light (scale of 8)	≥ 7/8 (white not graded)	ISO 105 B02
Acoustic properties (αw)	0.16	ISO 10534-2

## MECHANICAL PROPERTIES

	Average value	Standard
Breaking strength - Warp	>180 daN/5 cm	ISO 1421
Breaking strength - Weft	>120 daN/5 cm	ISO 1421
Elongation at break - Warp	<5%	ISO 1421
Elongation at break - Weft	<5%	ISO 1421
Tear strength - Warp	≥5 daN	ISO 4674-1 method 2
Tear strength - Weft	≥6 daN	ISO 4674-1 method 2

# FIRE CERTIFICATES

		Standard
European Union - Spain	Class 1	EN 13773
France	M1	NF P 92-507
Germany	B1	DIN 4102-1
Italy	Classe Uno	UNI 9177
United States	FR	NFPA 701

# THERMAL AND VISUAL PROPERTIES

## Thermal properties

Solar Transmittance Ts (%)	23,8
Solar Reflectance Rs (%)	64,0
Solar Absorptance As (%)	12,2

## Visual properties

Direct Visual Transmittance Tv <sub>n-n</sub>	0,053
Diffuse Visual Transmittance Tv <sub>n-dif</sub>	0,184
Diffuse Hemispherical Transmittance Tv <sub>dif-h</sub>	0,203
Visual Transmittance Tv	0,236
Daylight	2
Glare control	0
Privacy	1
View through	1
UV Protection (Suv Class)	2

Thermal factors	Average value	Class
G <sub>tot</sub> Glazing F	0,307	2
G <sub>tot</sub> Glazing G	0,133	3
G <sub>tot</sub> Glazing H	0,266	2

# HEALTH, SAFETY AND OTHER PROPERTIES



Warranty



Reach compliant



Printable



Lead free



Fire retardant



Made in EU



Greenguard Gold