

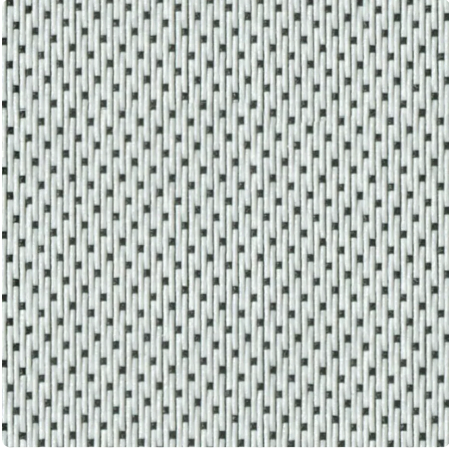
MERMET

HIGH PERFORMANCE

OPTIMAL 1

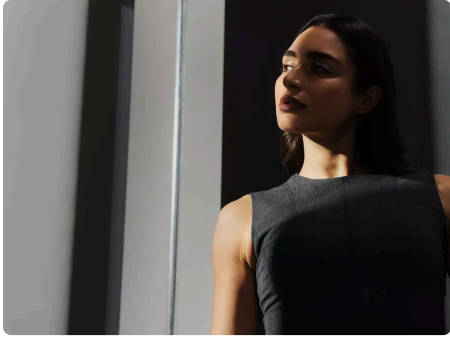
Double-sided pattern for an excellent glare control

COLOUR 00020003 White Black (Side B - White)



WIDTH(S)	250, 320 cm
DENSITY	1%
VISUAL COMFORT - WHITE BLACK (SIDE B - WHITE)	
Glare control	4
View through	2
Privacy	2
Daylight	1
THERMAL COMFORT WITH GLAZING F	
Class interior	1
THERMAL AND VISUAL PROPERTIES	
Solar Reflectance Rs	51,1%
Solar Transmittance Ts	3,6%
Interior g-tot - Glazing F	0,357
Visual Transmittance Tv	0,034
Diffuse Visual Transmittance Tvn-dif	0,025
Direct Visual Transmittance Tvn-n	0,010

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 1

- ✓ Optimal balance between visual and thermal performance thanks to its double-sided pattern
- ✓ Dark-coloured side for optimum glare control
- ✓ Reflective white side to allow maximum heat protection
- ✓ 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)	450 g/m ² ± 5%	ISO 2286-2
Thickness	0.61 mm ± 5%	ISO 2286-3
Colour fastness to artificial light (scale of 8)	≥ 7/8 (white not graded)	ISO 105 B02
Acoustic properties (αw)	0.3	ISO 10534-2

MECHANICAL PROPERTIES

	Average value	Standard
Breaking strength - Warp	>180 daN/5 cm	ISO 1421
Breaking strength - Weft	>140 daN/5 cm	ISO 1421
Elongation at break - Warp	<5%	ISO 1421
Elongation at break - Weft	<5%	ISO 1421
Tear strength - Warp	≥6 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 (%)	3,6
Solar Reflectance Rs (%)	51,1
Solar Absorptance As (%)	45,3

Visual properties

Direct Visual Transmittance Tv _{n-n}	0,010
Diffuse Visual Transmittance Tv _{n-dif}	0,025
Diffuse Hemispherical Transmittance Tv _{dif-h}	0,029
Visual Transmittance Tv	0,034
Daylight	1
Glare control	4
Privacy	2
View through	2
UV Protection (Suv Class)	4

Thermal factors

	Average value	Class
G _{tot} Glazing F	0,357	1
G _{tot} Glazing G	0,164	2
G _{tot} Glazing H	0,309	2

HEALTH, SAFETY AND OTHER PROPERTIES



Warranty



Reach compliant



Printable



Lead free



Fire retardant



Made in EU



Greenguard Gold