

SCREEN

DESIGN

M-SCREEN 8501



COLLECTION
2015
2018

INTELLIGENT FABRICS FOR SOLAR PROTECTION



Widths: Up to 320 cm

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DESIGN

M-SCREEN 8501

TIGHT BASKET WEAVE FABRIC WITH
UNRIVALLED VISUAL COMFORT

1%

OPENNESS

FACTOR

with total glare control

**ROOM
DARKENING**

FABRIC, IN EXTRA WIDE
WIDTH 320 CM

- **EXCELLENT VISUAL COMFORT.** Thanks to the consistently tight weave of the fabric (OF 1%) total glare control can be achieved: Up to **97% OF LIGHT RAYS FILTERED** ($T_v = 3\%$)
- **THERMAL COMFORT:** Up to 75% of solar energy eliminated ($g_{tot} = 0,25$ / glazing $g = 0,32$ and $U = 1,1$)
- **4 COLOURS** available in 250 cm and **320 cm** widths
- **EXTRA WIDE WIDTH:** 320 cm for large windows to create a seamless aesthetic
- Excellent mechanical resistance and dimensional stability for extra-large roller blinds
- **EXCELLENT DURABILITY:** Mechanical strength test of 10.000 cycles (class 3 NF EN 13120)
- Health & safety: Conforms to standard requirements for buildings open to the public
- Excellent printing medium for custom designs

M-SCREEN 8501

0702



TECHNICAL DATA

M-SCREEN 8501			
Composition	36% Fibreglass - 64% PVC		
Fire, smoke classification and other official test reports*	M1 (F) - NFP 92 503 B1 (DE) - DIN 4102-1 BS (GB) - 476 Pt 6 Class 0 Euroclass C-s3-d0 (EU) - EN 13501-1 mounted according to EN 13823 & EN 14716 FR (US) - NFPA 701 F3 (F) - NF F 16-101 HHV: 15,7 MJ/kg (6,75 MJ/m ²)		
Health, safety	Oeko-Tex Standard 100 class IV: No chemicals harmful to health and safety of users Greenguard®: Guarantee of indoor air quality (VOC) Antibacterial: More than 99% of bacteria destroyed - ASTM E 2180		
Openness factor	1%		
UV screen	Up to 97%		
Widths	250 - 320 cm		
Weight/m ²	430 g ± 5% - ISO 2286 - 2		
Thickness	0,55 mm ± 5% - ISO 2286 - 3		
Mechanical resistance	Breaking	Tear	Folding
Warp	> 180 daN/5 cm	≥ 5 daN	≥ 70 daN/5 cm
Weft	> 150 daN/5 cm	≥ 4 daN	≥ 70 daN/5 cm
	ISO 1421	EN 1875-3	ISO 1421 **
Elongation (warp and weft)	< 5% - ISO 1421		
Colour Fastness to light (scale of 8)	7/8 - ISO 105 B02 (white not graded)		
Packaging	Rolls of 33 lm		
Making up	Advice note on request		

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 those provided on the company's website www.sunscreen-mermet.com shall be deemed to be authentic. Where applicable, MERMET SAS also 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

THERMAL AND OPTICAL FACTORS in the European standard EN 14501

M-SCREEN 8501 - OF 1%	Thermal factors					Optical factors				
	Fabric			Fabric + Glazing		Tv	Visual comfort classification (EN 14501 standard)			
	Ts	Rs	As	gtot internal blind			Daylight utilisation	Glare control	Night privacy	Outward visibility
C : gv = 0,59				D : gv = 0,32						
Colours										
0202 White	20	71	9	0,34 2	0,25 2	20	2	1	2	0
0702 Pearl White	14	47	39	0,42 1	0,27 2	12	2	1	2	1
0730 Pearl Charcoal	6	25	69	0,49 1	0,29 2	6	1	2	2	2
3001 Charcoal Grey	3	9	88	0,54 0	0,30 2	3	1	3	2	2

gv = 0,59: Solar factor of standard glazing (C), low-emission 4/16/4 double glazing filled with Argon (U value thermal transmittance = 1,2 W/m²K).

gv = 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).

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:

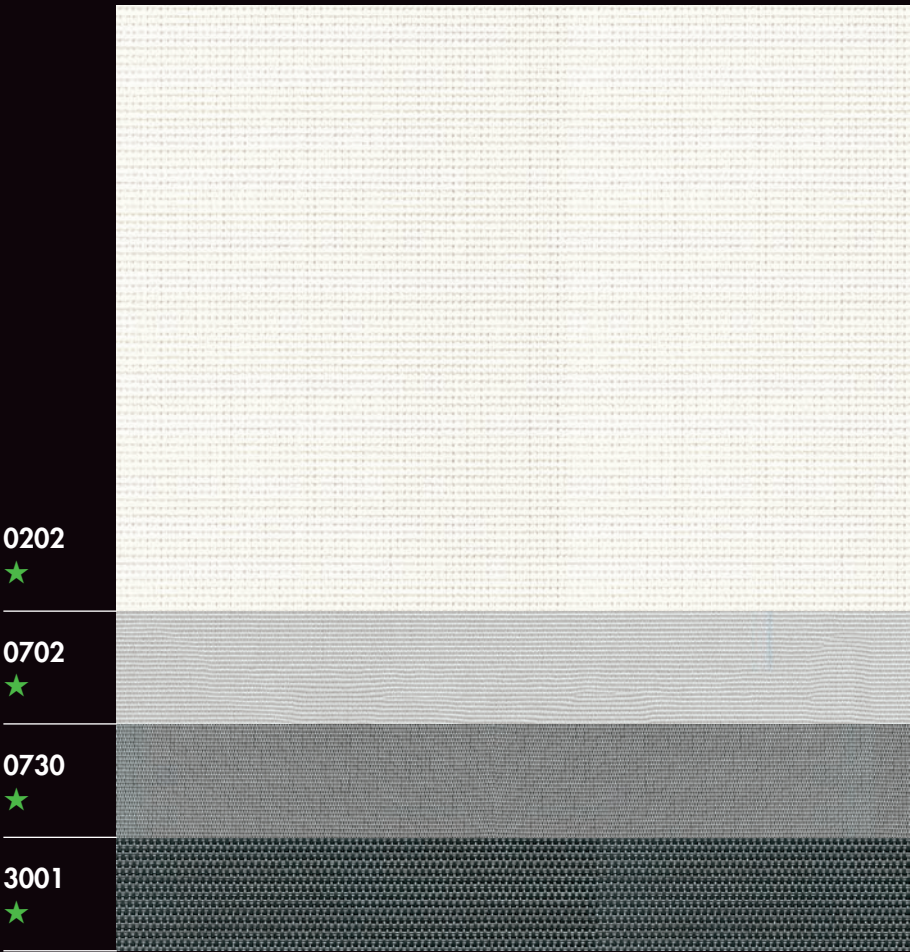
0 very little effect 1 little effect 2 moderate effect 3 good effect 4 very good effect

Available on request:

- Spectral values

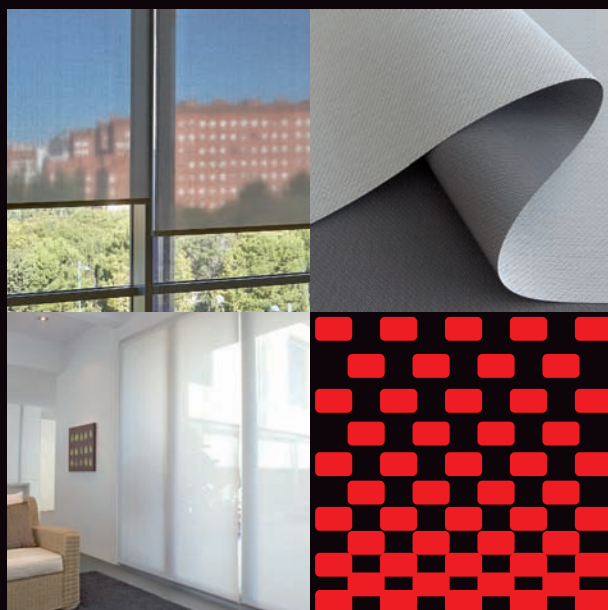
- Calculation of solar factor gtot of our fabrics with the glazings of the project

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★ **2 widths:** 250, 320 cm

Colours may be slightly different from the actual ones



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