

SCREEN

DESIGN

M-SCREEN 8503-8505



INTELLIGENT FABRICS FOR SOLAR PROTECTION



Widths: Up to 320 cm

www.sunscreen-mermet.com

DESIGN

M-SCREEN 8503-8505

THERMAL AND VISUAL COMFORT WITH CONSISTENT DESIGN AESTHETIC FOR INTERIOR SPACES

36
COLOURS

320 cm
EXTRA WIDE
WIDTH

- **36 COLOURS** available in **2 OPENNESS FACTORS** 3% (8503), 5% (8505) in 200 and 250 cm wide widths
- 13 colours in the M-Screen 8505 range are available in **320 cm** width for **LARGE WINDOWS** with a seamless aesthetic
- **UP TO 97% OF LIGHT RAYS FILTERED:** Glare controlled (Tv = 3%)
- Excellent **VISUAL COMFORT** with optimized **TRANSPARENCY** and heat control
- **ECONOMICAL:** 3 width sizes (200, 250 and 320 cm) to reduce waste in manufacturing fabric panels
- High mechanical resistance and dimensional stability
- **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

TECHNICAL DATA

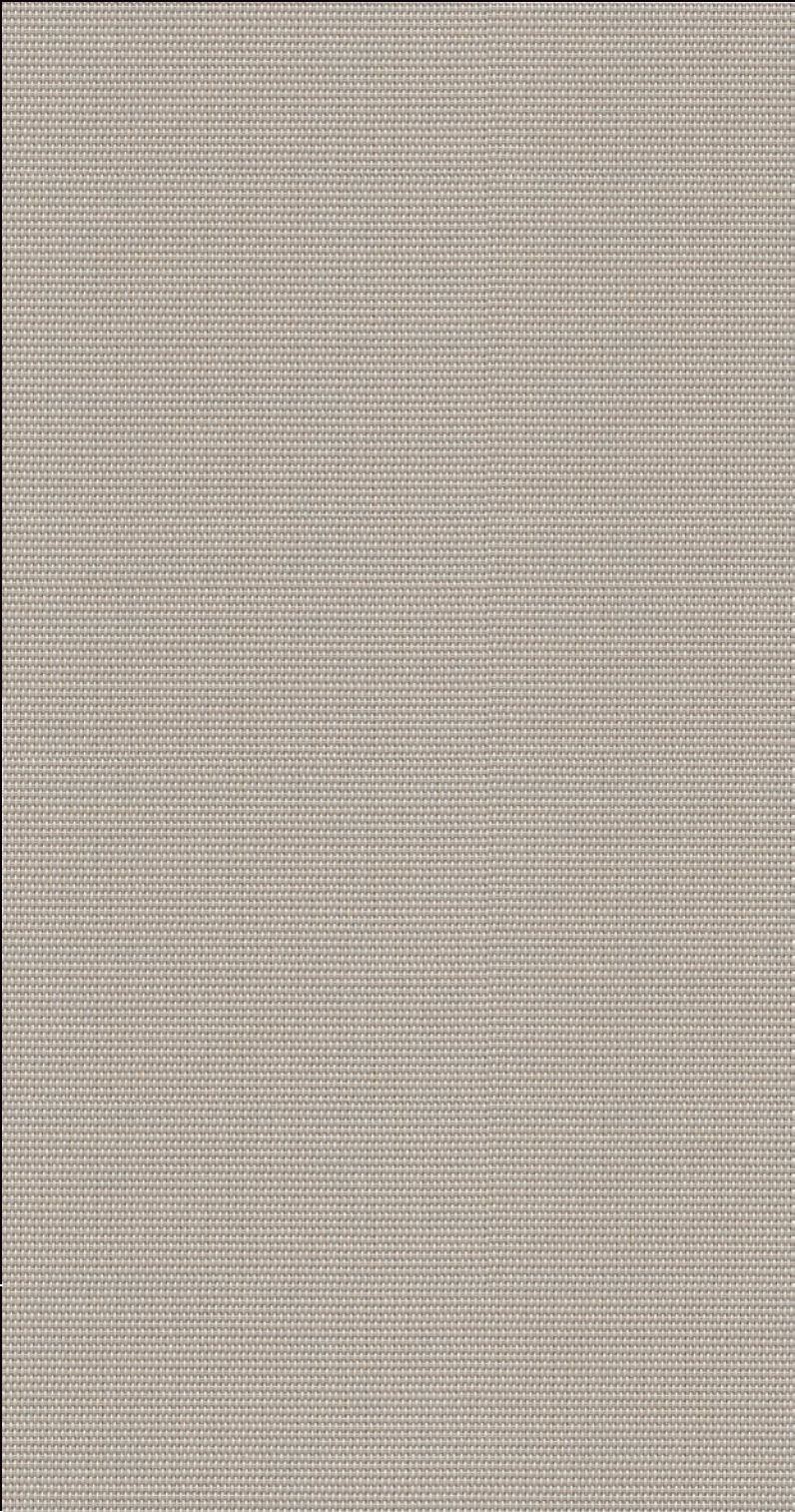
	M-SCREEN 8503	M-SCREEN 8505	
Composition	36% Fibreglass - 64% PVC		
Fire, smoke classification and other official test reports*	M1 (F) - NFP 92 503 B1 (DE) - DIN 4102-1 BS (GB) - 476 Pt 6 Class 0 Euroclass C-s3-d0 (EU) - EN 13501-1 mounted according to EN 13823 & EN 14716 IMO - MSC 61(67) - A.563(14) *** CLASE 1 (SP) - EN 13773 *** FR (US) - NFPA 701 F3 (F) - NF F 16-101 HHV: 15,7 MJ/kg (8503: 6,36 MJ/m²) (8505: 6,12 MJ/m²)		
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	3%	5%	
UV screen	Up to 97%	Up to 96%	
Widths	200 - 250 cm	200 - 250 - 320 cm (depending on colours)	
Weight/m²	405 g ±5 % - ISO 2286 - 2	390 g ± 5% - ISO 2286 - 2	
Thickness	0,50 mm ± 5% - ISO 2286 - 3		
Mechanical resistance	Breaking	Tear	Folding
Warp	> 120 daN/5 cm	≥ 5 daN	≥ 50 daN/5 cm
Weft	> 150 daN/5 cm	≥ 4 daN	≥ 50 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		

These 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 these products 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 *** Only M-Screen 8505

8503
0710

8505
0710



THERMAL AND OPTICAL FACTORS in the European standard EN 14501

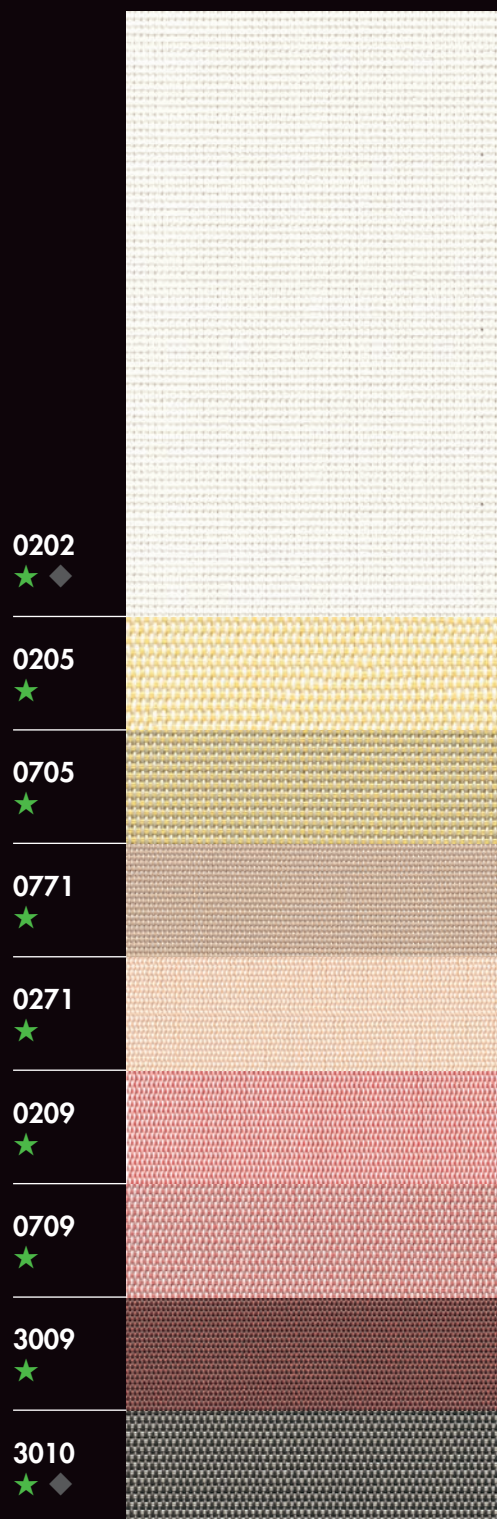
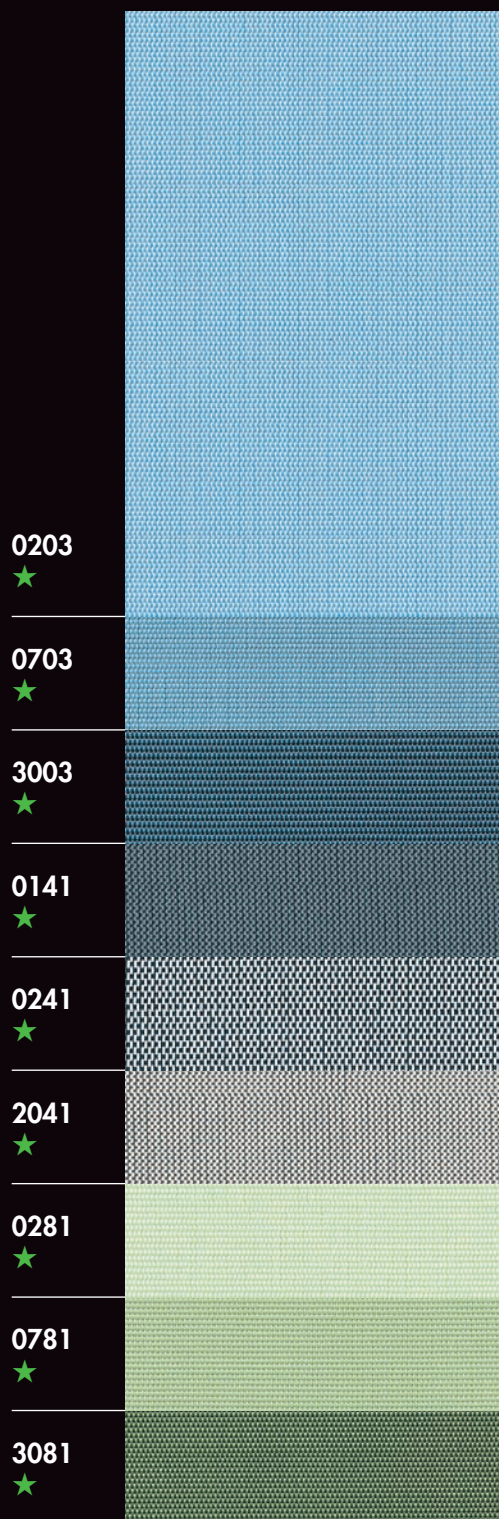
M-SCREEN 8503 - OF 3% M-SCREEN 8505 - OF 5%	Thermal factors										Optical factors									
	Fabric						Fabric + Glazing				Tv		Visual comfort classification (EN 14501 standard)							
Colours	Ts		Rs		As		gtot		internal blind				Daylight utilisation		Glare control		Night privacy		Outward visibility	
							C : gv = 0,59		D : gv = 0,32											
	8503	8505	8503	8505	8503	8505	8503	8505	8503	8505	8503	8505	8503	8505	8503	8505	8503	8505	8503	8505
0281 White Parrot	19	24	59	56	22	20	0,38 1	0,39 1	0,26 2	0,26 2	19	24	2	2	1	1	2	2	0	0
0221 White Lotus	18	25	61	62	21	13	0,37 1	0,37 1	0,26 2	0,26 2	16	23	2	2	1	1	2	2	1	0
2022 Linen Stone	23	25	53	51	24	24	0,40 1	0,41 1	0,26 2	0,27 2	19	22	2	2	1	1	2	2	0	0
0222 White Stone	22	23	61	61	17	16	0,37 1	0,37 1	0,26 2	0,26 2	21	22	2	2	1	0	2	1	0	1
0202 White	21	23	69	69	10	8	0,35 1	0,35 1	0,25 2	0,25 2	20	21	2	2	1	1	2	2	0	0
0205 White Canary	24	23	58	61	18	16	0,38 1	0,37 1	0,26 2	0,26 2	21	21	2	2	1	1	2	2	0	0
2020 Linen	21	22	53	61	26	17	0,40 1	0,37 1	0,26 2	0,26 2	17	20	2	2	1	1	2	2	1	1
0220 White Linen	21	22	62	62	17	16	0,37 1	0,37 1	0,25 2	0,25 2	18	19	2	2	1	1	2	2	1	1
0271 White Apricot	24	25	62	59	14	16	0,37 1	0,38 1	0,25 2	0,26 2	18	19	2	2	1	1	2	2	1	1
0781 Pearl Parrot	18	19	41	40	41	41	0,44 1	0,44 1	0,27 2	0,27 2	17	19	2	2	1	0	2	1	1	2
0721 Pearl Lotus	18	20	42	42	40	38	0,43 1	0,44 1	0,27 2	0,27 2	16	18	2	2	1	1	2	2	1	1
0771 Pearl Apricot	20	21	41	42	39	37	0,44 1	0,44 1	0,27 2	0,27 2	15	18	2	2	1	0	2	1	1	2
0705 Pearl Canary	17	20	42	42	41	38	0,43 1	0,44 1	0,27 2	0,27 2	14	17	2	2	1	1	2	2	1	1
0207 White Pearl	16	18	54	55	30	27	0,40 1	0,39 1	0,26 2	0,26 2	14	16	2	2	1	1	2	2	1	1
0720 Pearl Linen	18	19	44	43	38	38	0,43 1	0,43 1	0,27 2	0,27 2	15	16	2	2	1	1	2	2	1	1
0210 White Sable	17	18	54	54	29	28	0,40 1	0,40 1	0,26 2	0,26 2	14	14	2	2	1	0	2	1	1	2
0707 Pearl	13	15	37	37	50	48	0,45 1	0,45 1	0,28 2	0,28 2	11	13	1	2	1	1	2	2	1	1
0209 White Mandarin	20	24	57	55	23	21	0,39 1	0,39 1	0,26 2	0,26 2	9	13	1	2	1	1	2	2	1	1
0203 White Turquoise	19	19	52	56	29	25	0,40 1	0,39 1	0,26 2	0,26 2	12	12	2	2	1	1	2	2	1	1
0709 Pearl Mandarin	19	20	39	37	42	43	0,44 1	0,45 1	0,28 2	0,28 2	11	12	1	2	1	1	2	2	1	1
0703 Pearl Turquoise	15	17	38	37	47	46	0,45 1	0,45 1	0,28 2	0,28 2	10	12	1	2	1	1	2	2	1	1
0710 Pearl Sable	16	16	38	36	46	48	0,45 1	0,45 1	0,28 2	0,28 2	12	12	2	2	1	1	2	2	1	1
2041 Linen Ultramarine	10	13	32	32	58	55	0,47 1	0,47 1	0,28 2	0,28 2	7	10	1	1	1	1	2	2	2	1
0201 White Grey	12	13	45	46	43	41	0,42 1	0,42 1	0,27 2	0,27 2	9	10	1	1	1	1	2	2	1	1
0121 Grey Lotus	14	14	28	30	58	56	0,48 1	0,47 1	0,28 2	0,28 2	10	10	1	1	1	1	2	2	1	1
0701 Pearl Grey	10	13	30	29	60	58	0,47 1	0,48 1	0,28 2	0,28 2	7	10	1	1	1	1	2	2	2	1
0241 White Ultramarine	9	11	40	41	51	48	0,44 1	0,44 1	0,27 2	0,27 2	7	9	1	1	1	1	2	2	2	1
0141 Grey Ultramarine	9	10	17	16	74	74	0,51 0	0,52 0	0,29 2	0,30 2	7	7	1	1	2	2	2	2	2	2
3071 Charcoal Apricot	5	7	13	14	82	79	0,53 0	0,52 0	0,30 2	0,30 2	4	6	1	1	3	2	2	2	2	2
3081 Charcoal Parrot	5	6	15	14	80	80	0,52 0	0,52 0	0,30 2	0,30 2	5	6	1	1	2	2	2	2	2	2
3001 Charcoal Grey	5	6	10	10	85	84	0,54 0	0,54 0	0,30 2	0,30 2	4	6	1	1	3	3	2	2	2	2
3010 Charcoal Sable	5	6	14	14	81	80	0,52 0	0,52 0	0,30 2	0,30 2	5	5	1	1	3	3	2	2	2	2
3009 Charcoal Mandarin	5	7	13	12	82	81	0,53 0	0,53 0	0,30 2	0,30 2	4	5	1	1	3	3	2	2	2	2
3003 Charcoal Turquoise	4	6	15	15	81	79	0,52 0	0,52 0	0,30 2	0,30 2	4	5	1	1	3	3	2	2	2	2
3006 Charcoal Bronze	3	5	7	7	90	88	0,54 0	0,54 0	0,30 2	0,30 2	3	5	1	1	3	3	2	2	2	2
3030 Charcoal	2	5	6	6	92	89	0,54 0	0,54 0	0,30 2	0,30 2	3	5	1	1	3	3	2	2	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



★ 2 widths: 200, 250 cm

◆ Extra width: 320 cm (M-Screen 8505)

Colours may be slightly different from the actual ones

M-SCREEN 8505

0222



0220



2022



2020



0210



0720



0710



3071



3006



0221



0207



0201



0721



0707



0701



0121

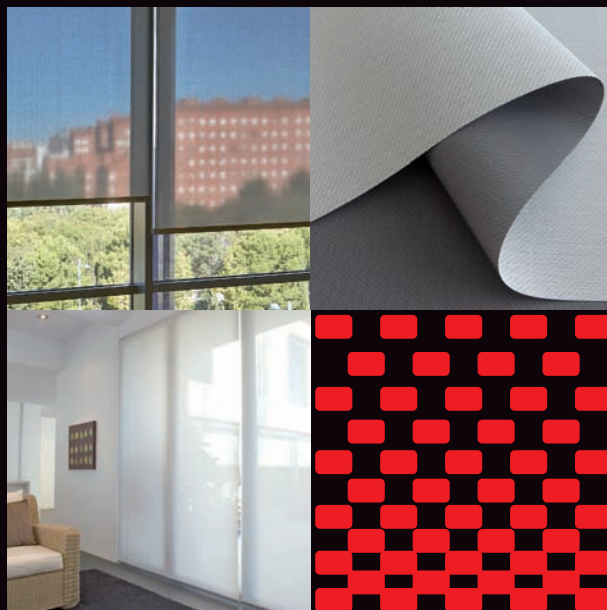


3001



3030





www.sunscreen-mermet.com



58, chemin du Mont Maurin - FR-38630 Veyrins - Tel. +33(0) 474 336 615 - Fax +33(0) 474 339 729

This brochure must be read and interpreted in accordance with the General Terms & Conditions of Sale of MERMET SAS, with which it forms an indissoluble whole. The General Terms & Conditions of Sale that are current at any time are those contained on the MERMET SAS website at the following address: www.sunscreen-mermet.com.