

B-SCREEN 1% - 3% - 5%



COLLECTION
2018
2021

INTELLIGENT FABRICS FOR SOLAR PROTECTION



INTERNAL
APPLICATION

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B-SCREEN 1% - 3% - 5%

B-SCREEN

B-SCREEN 1%-3%-5%

BASKET WEAVE FABRICS TO COMBINE VISUAL COMFORT WITH TRANSPARENCY

320 CM

LARGE-SIZED WINDOWS OFFERING A SEAMLESS DESIGN

3 OPENNESS FACTORS

TO OPTIMIZE SOLAR PROTECTION ACCORDING THE ORIENTATION OF BUILDING

- EXCELLENT GLARE CONTROL: up to 98% OF LIGHT RAYS FILTERED (B-Screen 1%), comfort classification 3 (good effect) according to EN 14501 standard
- INTERNAL THERMAL COMFORT: up to 87% of solar energy rejected ($g_{tot} = 0,13$ / glazing $g = 0,32$ et $U = 1,1$)
- GOOD VISION TOWARD THE OUTSIDE
- 8 COLOURS available in 1%, 3% and 5% in 2 widths (250 cm and 320 cm)
- High mechanical resistance

INTERNAL APPLICATIONS



Roller blinds



Roman shades



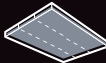
Decorative panels



Velums



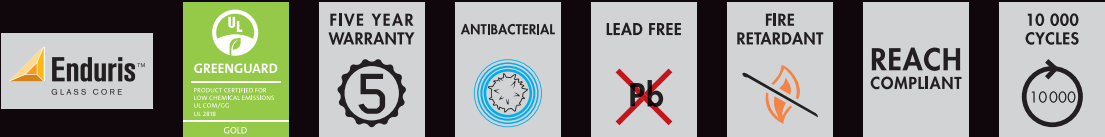
Printable



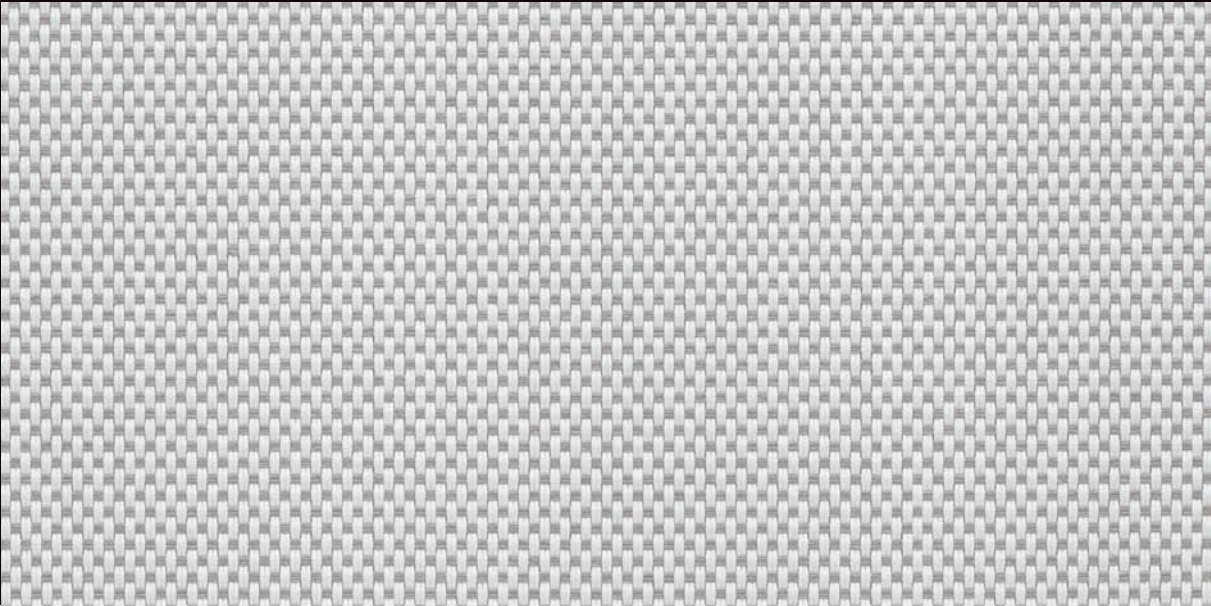
Stretched ceilings



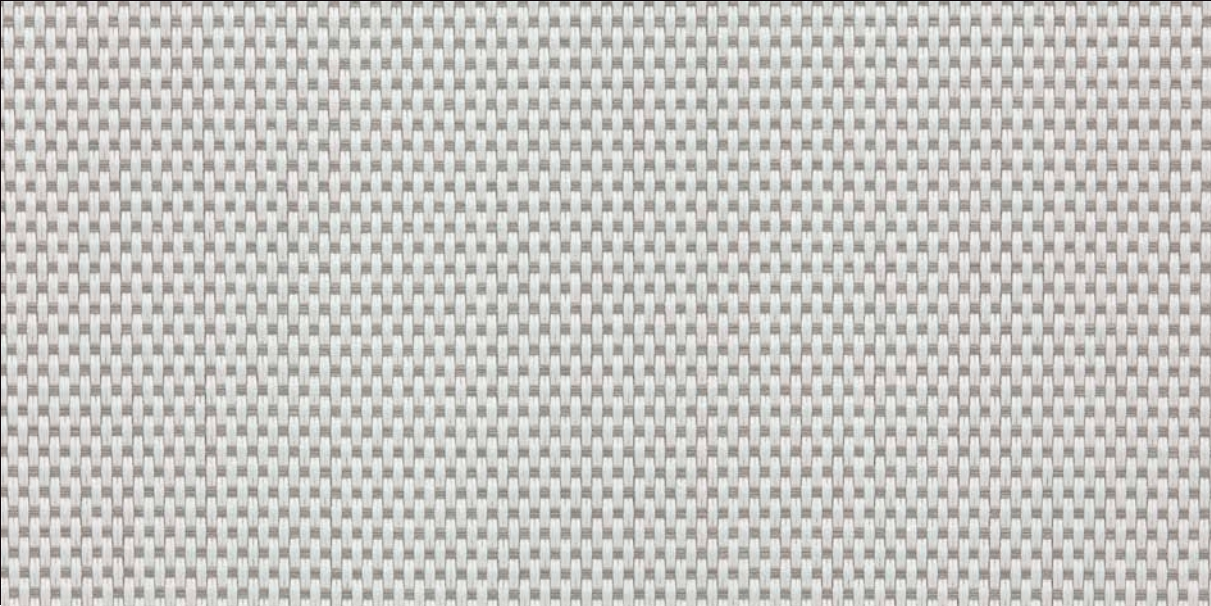
Space fitting



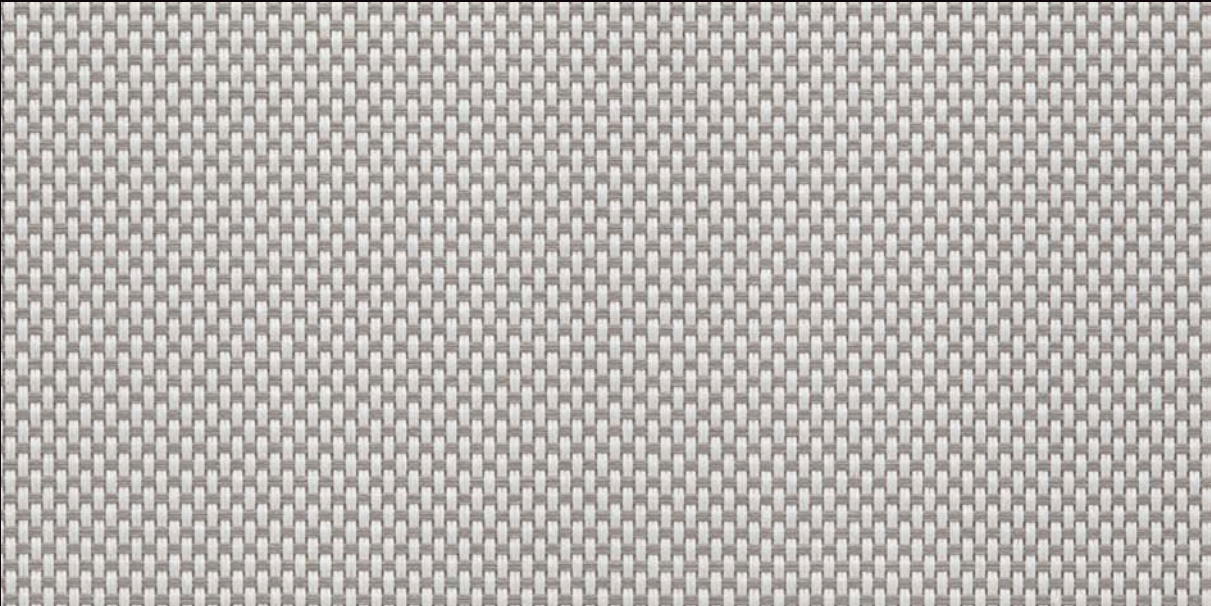
B-SCREEN
1%
0207



B-SCREEN
3%
0207



B-SCREEN
5%
0207



TECHNICAL DATA

	B-SCREEN 1%			B-SCREEN 3%			B-SCREEN 5%		
Composition	36% Fibreglass - 64% PVC			36% Fibreglass - 64% PVC			36% Fibreglass - 64% PVC		
Fire, smoke classification and other official test reports	M2 (F) - NFP 92 503 BS (GB) - 5867 CLASE 1 (SP) - EN 13773 C UNO (IT) - UNI 9177 FR (USA) - NFPA 701			M2 (F) - NFP 92 503 BS (GB) - 5867 CLASE 1 (SP) - EN 13773 C UNO (IT) - UNI 9177 FR (USA) - NFPA 701-10			M2 (F) - NFP 92 503 BS (GB) - 5867 CLASE 1 (SP) - EN 13773 C UNO (IT) - UNI 9177 FR (USA) - NFPA 701		
Health, safety	Greenguard®: Guarantee of indoor air quality (VOC) Antibacterial: More than 99% of bacteria destroyed - ASTM E 2180			Greenguard®: Guarantee of indoor air quality (VOC) Antibacterial: More than 99% of bacteria destroyed - ASTM E 2180			Greenguard®: Guarantee of indoor air quality (VOC) Antibacterial: More than 99% of bacteria destroyed - ASTM E 2180		
Openness factor	1%			3%			5%		
UV screen	Up to 99%			Up to 97%			Up to 93%		
Widths	250 - 320 cm			250 - 320 cm			250 - 320 cm		
Weight/m²	420 g ± 5% - ISO 2286 - 2			390 g ± 5% - ISO 2286 - 2			380 g ± 5% - ISO 2286 - 2		
Thickness	0,49 mm ± 5% - ISO 2286 - 3			0,49 mm ± 5% - ISO 2286 - 3			0,44 mm ± 5% - ISO 2286 - 3		
Colour Fasteness to light (Scale of 8)	7/8 - ISO 105 B02 (white not graded)			7/8 - ISO 105 B02 (white not graded)			7/8 - ISO 105 B02 (white not graded)		
Mechanical resistance	Breaking	Tear	Folding	Breaking	Tear	Folding	Breaking	Tear	Folding
Warp	> 135 daN/5 cm	≥ 4 daN	≥ 20 daN/5 cm	> 135 daN/5 cm	≥ 4 daN	≥ 20 daN/5 cm	> 135 daN/5 cm	≥ 5 daN	≥ 20 daN/5 cm
Weft	> 115 daN/5 cm	≥ 3 daN	≥ 20 daN/5 cm	> 115 daN/5 cm	≥ 3 daN	≥ 20 daN/5 cm	> 115 daN/5 cm	≥ 4 daN	≥ 20 daN/5 cm
	ISO 1421	EN 1875-3	ISO 1421	ISO 1421	EN 1875-3	ISO 1421	ISO 1421	EN 1875-3	ISO 1421
Elongation (warp and weft)	< 5% - ISO 1421			< 5% - ISO 1421			< 5% - ISO 1421		
Packaging	Rolls of 52 lm - Width 320 cm: rolls of 33 lm			Rolls of 52 lm - Width 320 cm: rolls of 33 lm			Rolls of 52 lm - Width 320 cm: rolls of 33 lm		
Making up	Advice note on request			Advice note on request			Advice note on request		

THERMAL AND OPTICAL FACTORS in the European standard EN 14501

Colours	Thermal factors					Optical factors
	Fabric			Fabric + Glazing / gtot internal blind		Tv
	Ts	Rs	As	C : gv = 0,59	D : gv = 0,32	
B-SCREEN 1%						
0202 White	16	71	13	0,27 2	0,13 3	15
0220 White Linen	13	66	21	0,30 2	0,15 2	12
2020 Linen	16	51	33	0,37 1	0,20 2	12
0207 White Pearl	8	58	34	0,33 2	0,17 2	7
0720 Pearl Linen	8	37	55	0,44 1	0,23 2	6
0707 Pearl	6	31	63	0,45 1	0,23 2	5
3001 Charcoal Grey	2	8	90	0,54 0	0,30 2	2
3030 Charcoal	2	5	93	0,56 0	0,31 2	2
B-SCREEN 3%						
0202 White	18	70	12	0,28 2	0,13 3	17
2020 Linen	19	49	32	0,38 1	0,20 2	16
0220 White Linen	16	65	19	0,31 2	0,15 2	14
0207 White Pearl	13	57	30	0,34 2	0,17 2	12
0720 Pearl Linen	11	35	54	0,44 1	0,23 2	9
0707 Pearl	7	29	64	0,46 1	0,25 2	5
3001 Charcoal Grey	3	8	89	0,55 0	0,31 2	3
3030 Charcoal	3	5	92	0,55 0	0,32 2	3
B-SCREEN 5%						
0202 White	20	68	12	0,30 2	0,13 3	19
0220 White Linen	21	59	20	0,34 2	0,17 2	18
2020 Linen	22	48	30	0,40 1	0,21 2	18
0207 White Pearl	15	51	34	0,37 1	0,19 2	13
0720 Pearl Linen	13	36	51	0,44 1	0,23 2	12
0707 Pearl	11	29	60	0,44 1	0,25 2	9
3030 Charcoal	8	5	87	0,56 0	0,32 2	9
3001 Charcoal Grey	7	8	85	0,55 0	0,30 2	7

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

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).

Comfort classification according to EN 14501 standard: 0 very little effect

1 little effect 2 moderate effect

3 good effect 4 very good effect

Samples tested according to EN 14500 standard defining the measurements and calculation methods as specified in the standard EN 13363-2 "Solar protection devices combined with glazing calculation of solar and light transmittance - part 2: EN 13363-2 detailed method" and EN 410 "Glass in building - Determination of luminous and solar characteristics of glazing".

SERVICE

- Calculation of solar factor gtot (glazing + blind)
- Spectral values and thermal & optical factors available on request
- Specification sheet
- A4 samples and prototypes
- Training on fabrics functionality

WIDTHS: 250 - 320 CM

0202

0220

2020

0720

0207

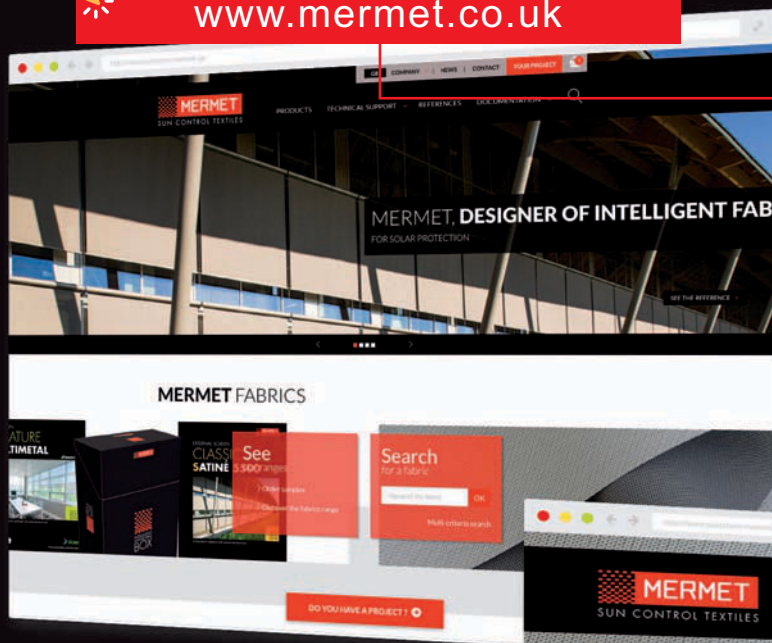
0707

3001

3030

Colours may be slightly different from the actual ones

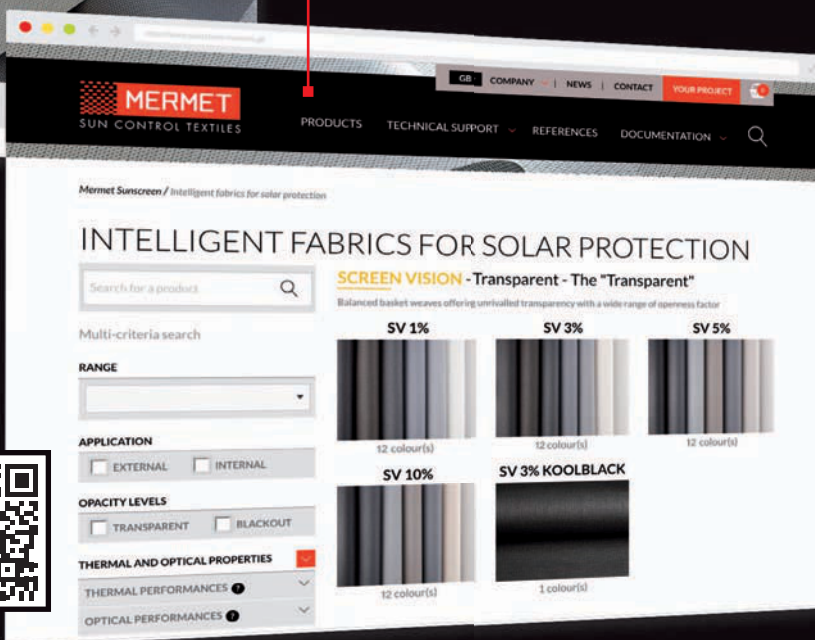
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SCREEN VISION / DESIGN / THERMIC / LOW

EXTERNAL SCREEN CLAS

SCREEN NA

BLACKOUT 100 %

ACOUSTIC



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