

SCREEN VISION

1% - 3% - 5% - 10%



COLLECTION
2018
2021

INTELLIGENT FABRICS FOR SOLAR PROTECTION



INTERNAL
APPLICATION

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SV 1% - 3% - 5% - 10%

SCREEN VISION

SV 1%-3%-5%-10%

BASKET WEAVE FABRICS TO COMBINE
VISUAL COMFORT WITH TRANSPARENCY

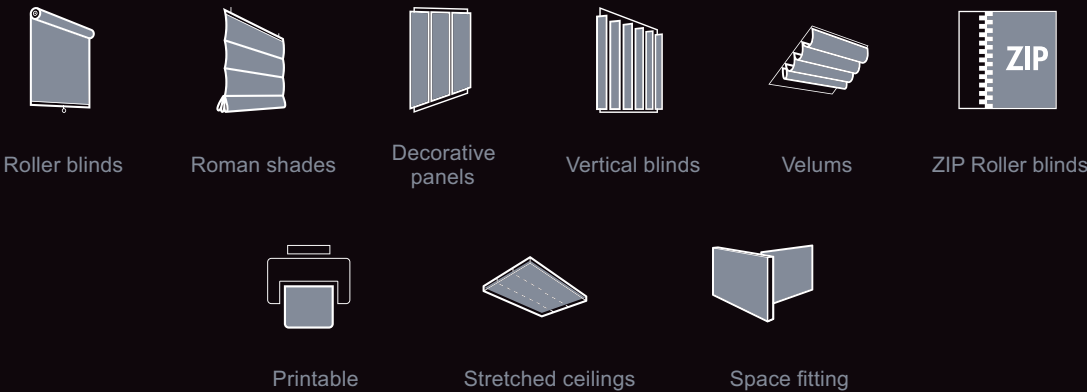
320 CM

LARGE-SIZED WINDOWS
OFFERING A SEAMLESS DESIGN

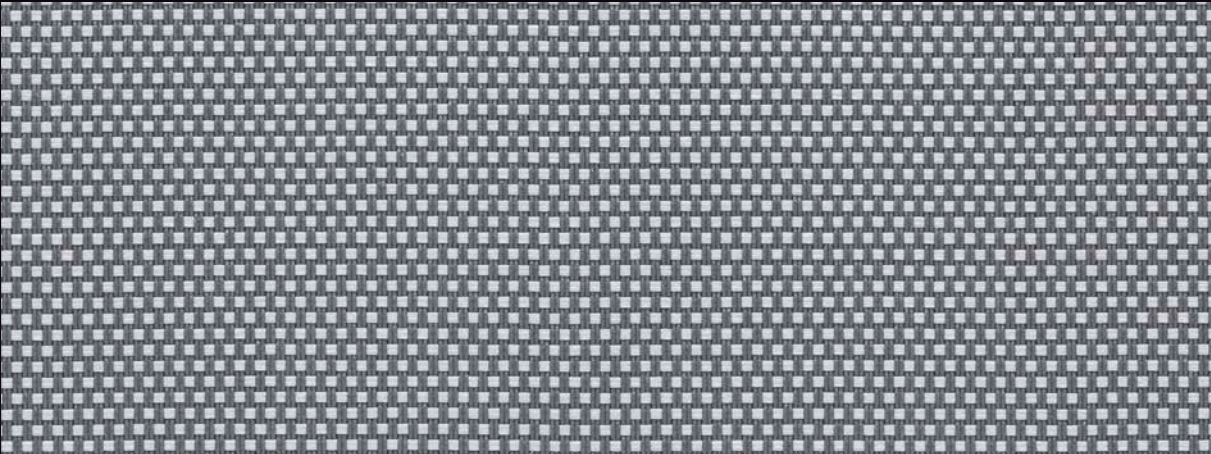
4 OPENNESS
FACTORS TO OPTIMIZE
SOLAR PROTECTION ACCORDING
THE ORIENTATION OF BUILDING

- EXCELLENT GLARE CONTROL: up to 99% OF LIGHT RAYS FILTERED (SV 1%), comfort classification 3 (good effect) according to EN 14501 standard
- MAXIMUM TRANSPARENCY (SV 10%) and INCOMING OF NATURAL LIGHT to improve the energy efficiency of buildings
- INTERNAL THERMAL COMFORT: up to 87% of solar energy rejected ($g_{tot} = 0,13$ / glazing $g = 0,32$ and $U = 1,1$)
- ECONOMICAL: 3 WIDTHS (200, 250 and 320 CM) to reduce waste when making fabric panels
- DIMENSIONAL STABILITY, DURABILITY (test of 10.000 cycles, class 3 NF EN 13120), MECHANICAL RESISTANCE: perfect flatness even in large dimensions
- Health & Safety: conforms to standard requirements for buildings open to the public

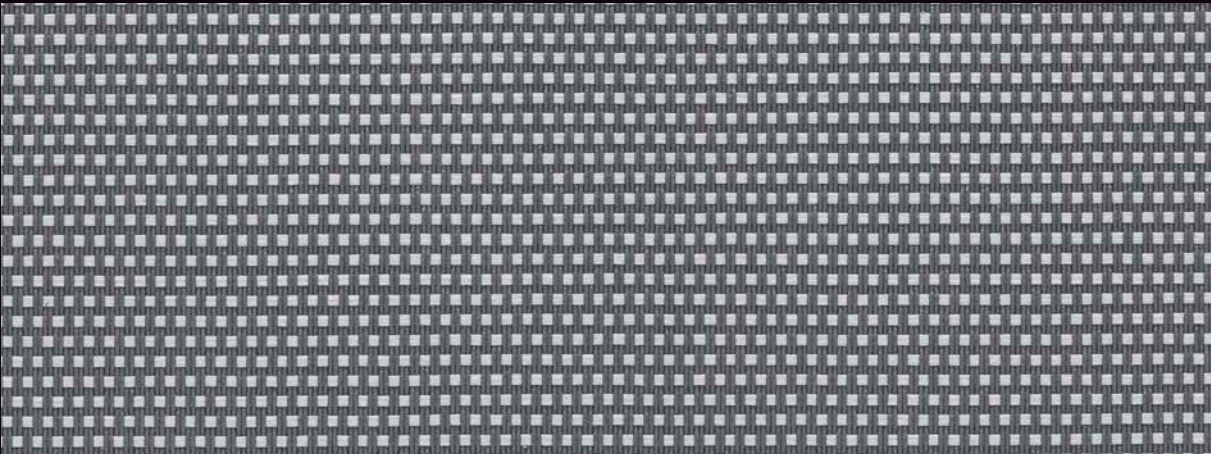
INTERNAL APPLICATIONS



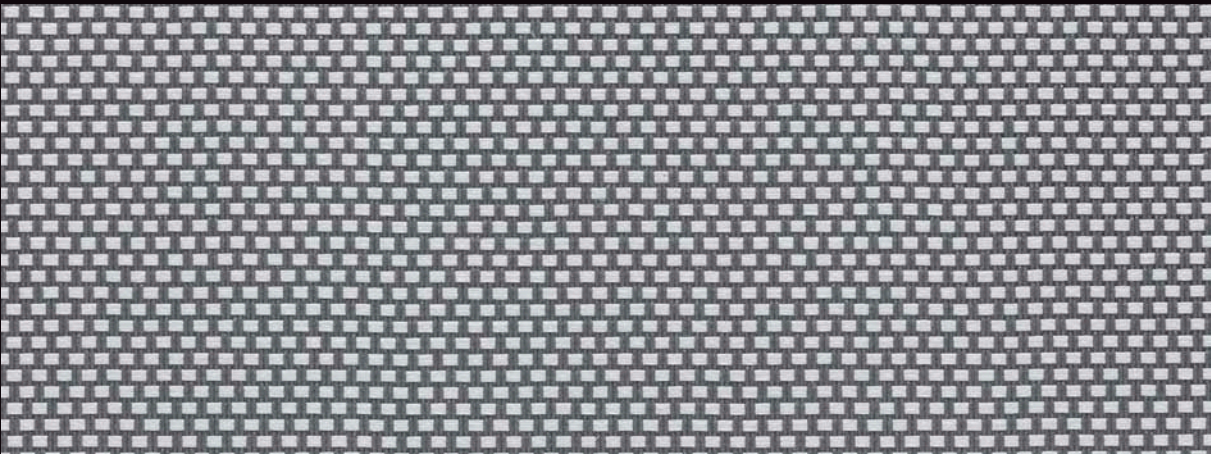
SV 1%
0102



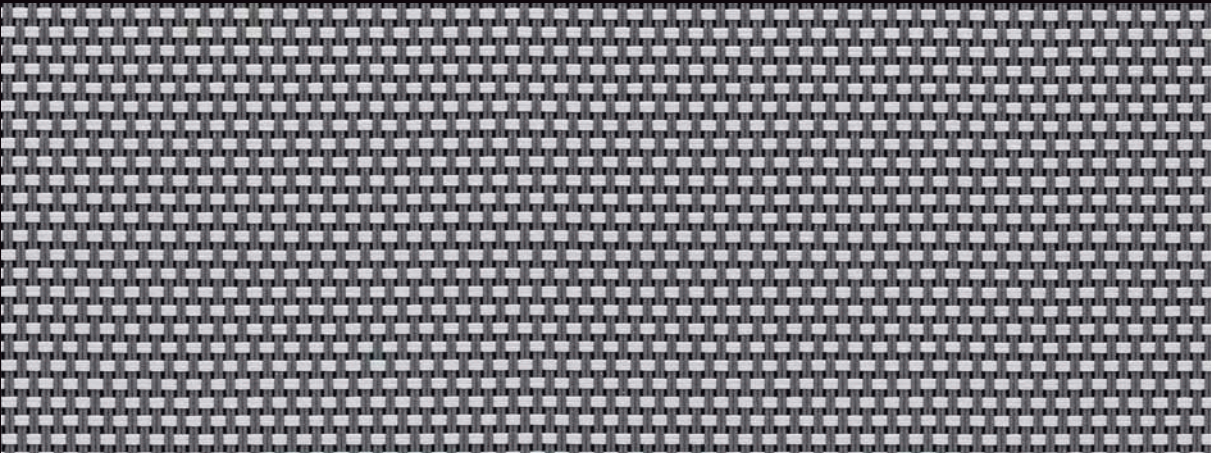
SV 3%
0102



SV 5%
0102



SV 10%
0102



TECHNICAL DATA

	SV 1%		SV 3%		SV 5%		SV 10%	
Composition	36% Fibreglass - 64% PVC				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 & 7 Class 0 / BS (GB) - 5867 Euroclass C-s3-d0 (EU) - EN 13501-1 mounted according to EN 13823 & EN 14716		FR (US) - NFPA 701 HHV: 15,7 MJ/kg (SV 1%: 6,44 MJ/m² - SV 3%: 6,04 MJ/m²)		M1 (F) - NFP 92 503 B1 (DE) - DIN 4102-1 BS (GB) - 476 Pt 6 & 7 Class 0 / BS (GB) - 5867 Euroclass C-s3-d0 (EU) - EN 13501-1 mounted according to EN 13823 & EN 14716		IMO - MED 2014/90/EU FR (US) - NFPA 701 HHV: 15,7 MJ/kg (SV 5%: 5,89 MJ/m² - SV 10%: 5,49 MJ/m²)	
Health, safety	Greenguard®: Guarantee of indoor air quality (VOC) Antibacterial: More than 99% of bacteria destroyeds - 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%		10%	
UV screen	Up to 99%		Up to 98%		Up to 94%		Up to 90%	
Widths	200 - 250 - 320 cm				200 - 250 - 320 cm			
Weight/m²	410 g ± 5% - ISO 2286 - 2		385 g ± 5% - ISO 2286 - 2		375 g ± 5% - ISO 2286 - 2		350 g ± 5% - ISO 2286 - 2	
Thickness	0,48 mm ± 5% - ISO 2286 - 3				0,42 mm ± 5% - ISO 2286 - 3		0,45 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)			
Mechanical resistance	Warp	Weft	Warp	Weft	Warp	Weft	Warp	Weft
Breaking (daN/5 cm) - ISO 1421	> 160	> 130	> 180	> 100	> 130	> 130	> 140	> 110
Tear (daN) - EN 1875-3	≥ 5	≥ 3	≥ 5	≥ 3	≥ 4	≥ 4	≥ 5	≥ 3
Folding (daN/5 cm) - ISO 1421	≥ 70	≥ 70	≥ 70	≥ 70	≥ 50	≥ 50	≥ 50	≥ 40
Elongation (warp and weft)	< 5% - ISO 1421				< 5% - ISO 1421			
Packaging	Rolls of 33 lm				Rolls of 33 lm			
Making up	Advice note on request				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 opposite 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

SV 10% only

THERMAL AND OPTICAL FACTORSthe 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	
S01% %						
0202 White	18	70	12	0,29 2	0,13 3	17
0220 White Linen	19	62	19	0,32 2	0,16 2	16
0207 White Pearl	18	56	26	0,35 1	0,18 2	12
0707 Pearl	12	37	51	0,43 1	0,23 2	10
0720 Pearl Linen	12	42	46	0,40 1	0,21 2	10
0210 White Sable	13	56	31	0,34 2	0,18 2	10
0102 Grey White	8	33	59	0,45 1	0,25 2	4
0101 Grey	7	20	73	0,50 0	0,29 2	4
0110 Grey Sable	6	24	70	0,48 1	0,27 2	3
3006 Charcoal Bronze	1	6	93	0,56 0	0,30 2	2
3030 Charcoal	2	5	93	0,56 0	0,31 2	2
3001 Charcoal Grey	1	9	90	0,54 0	0,30 2	1
S03% %						
0220 White Linen	21	62	17	0,31 2	0,15 2	18
0202 White	18	70	12	0,28 2	0,13 3	17
0207 White Pearl	14	56	30	0,35 1	0,17 2	16
0720 Pearl Linen	16	40	44	0,41 1	0,21 2	14
0210 White Sable	16	57	27	0,34 2	0,17 2	13
0707 Pearl	13	37	50	0,44 1	0,23 2	11
0102 Grey White	10	30	60	0,47 1	0,25 2	7
0101 Grey	9	20	71	0,51 0	0,28 2	5
0110 Grey Sable	8	23	69	0,49 1	0,28 2	4
3001 Charcoal Grey	3	8	89	0,54 0	0,31 2	3
3006 Charcoal Bronze	2	6	92	0,55 0	0,31 2	2
3030 Charcoal	2	5	93	0,55 0	0,32 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).
Classification according to EN 14501 standard: 0 very little effect 1 little effect 2 moderate effect 3 good effect 4 very good effect

Colours	Thermal factors					Optical factors
	Fabric			Fabric + Glazing / gtot internal blind		Tv
	Ts	Rs	As	C : gv = 0,59	D : gv = 0,32	
SV 05%						
0202 White	24	65	11	0,30 2	0,15 2	23
0220 White Linen	23	58	19	0,34 2	0,17 2	21
0207 White Pearl	20	50	30	0,38 1	0,19 2	18
0720 Pearl Linen	20	39	41	0,42 1	0,23 2	17
0707 Pearl	17	34	49	0,44 1	0,24 2	15
0210 White Sable	19	50	31	0,38 1	0,20 2	15
0102 Grey White	14	35	51	0,45 1	0,24 2	11
0101 Grey	13	19	68	0,52 0	0,28 2	10
0110 Grey Sable	13	25	62	0,49 1	0,28 2	9
3001 Charcoal Grey	7	10	83	0,55 0	0,30 2	7
3006 Charcoal Bronze	7	6	87	0,56 0	0,31 2	7
3030 Charcoal	7	5	88	0,56 0	0,31 2	7
SV 10%						
0202 White	28	62	10	0,32 2	0,16 2	27
0220 White Linen	27	56	17	0,36 1	0,18 2	25
0207 White Pearl	25	50	25	0,38 1	0,19 2	22
0210 White Sable	24	49	27	0,39 1	0,20 2	21
0720 Pearl Linen	24	37	39	0,43 1	0,23 2	21
0707 Pearl	21	33	46	0,45 1	0,24 2	19
0102 Grey White	19	31	50	0,47 1	0,25 2	16
0110 Grey Sable	17	23	60	0,49 1	0,27 2	14
0101 Grey	17	18	65	0,52 0	0,28 2	14
3006 Charcoal Bronze	12	6	82	0,55 0	0,32 2	12
3001 Charcoal Grey	11	9	80	0,54 0	0,31 2	10
3030 Charcoal	10	5	85	0,56 0	0,31 2	10

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".

WIDTHS: 200 - 250 - 320 CM

0202

0220

0210

0720

0110

3006

0207

0707

0102

0101

3001

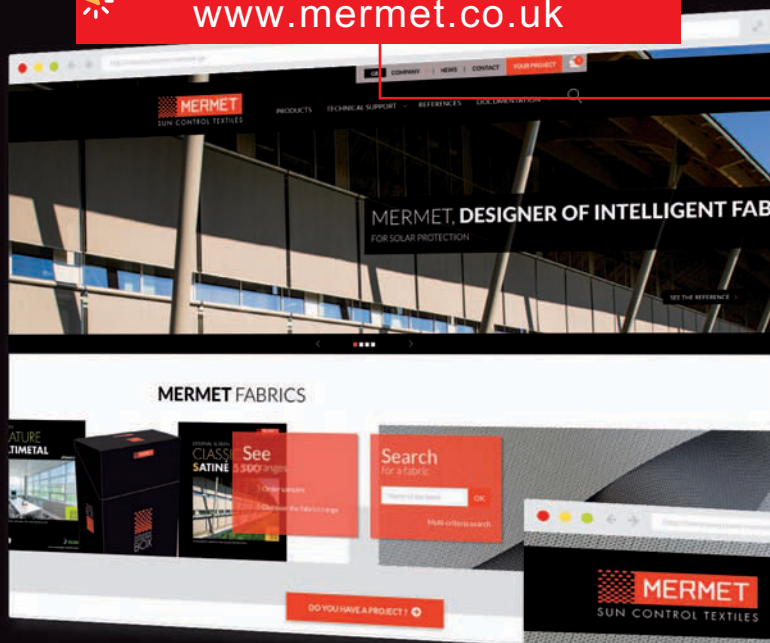
3030

Colours may be slightly different from the actual ones

SERVICE

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

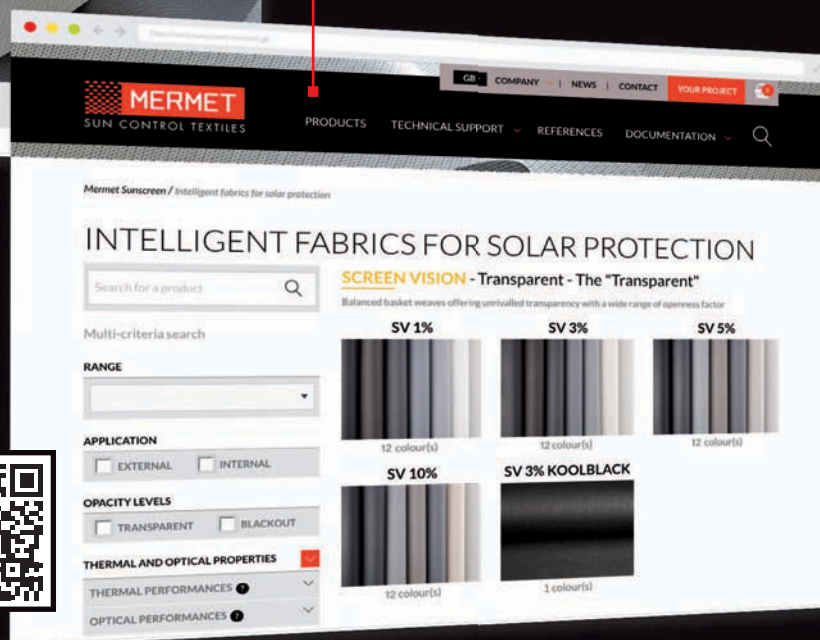
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for external and internal application, from transparency
to total darkness, for thermal and optical comfort.
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SCREEN VISION / DESIGN / THERMIC / LOW

EXTERNAL SCREEN CLAS

SCREEN NA

BLACKOUT 100 %

ACOUSTIC



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