

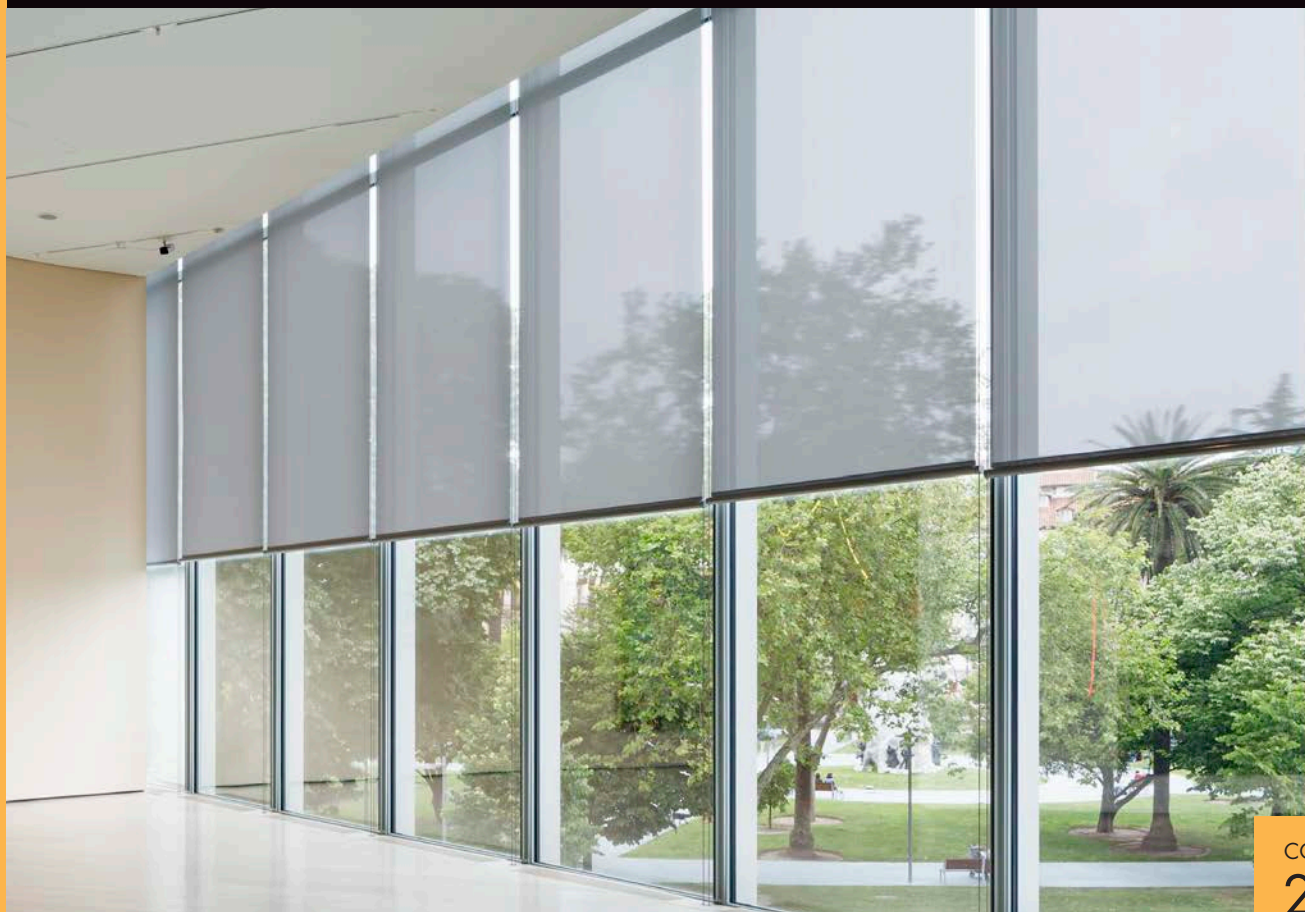
SCREEN DESIGN

M-SCREEN

8501-8503-8505

M-SCREEN 8501-8503-8505

SCREEN DESIGN



COLLECTION
2018
2021

INTELLIGENT FABRICS FOR SOLAR PROTECTION



INTERNAL
APPLICATION

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M-SCREEN 8501-8503-8505

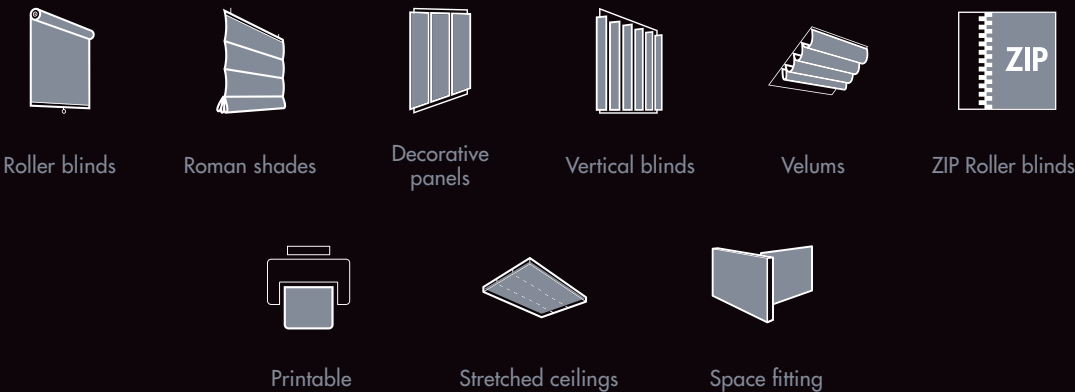
THERMAL AND VISUAL COMFORT WITH CONSISTENT DESIGN AESTHETIC FOR INTERIOR SPACES

22
TRENDY COLOURS

320 CM
LARGE-SIZED WINDOWS
OFFERING A SEAMLESS DESIGN

- **3 OPENNESS FACTORS 1%, 3% and 5%** to optimize solar protection according the orientation of building
- **EXCELLENT GLARE CONTROL** (M-Screen 8501): **UP TO 100% OF LIGHT RAYS FILTERED** ($T_v = 0\%$), 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 $g = 0,32$ and $U = 1,1$ W/m²K)
- Optimal **TRANSPARENCY** and incoming of **NATURAL LIGHT** to improve the energy efficiency of buildings
- Economical: **3 WIDTHS SIZES (200, 250, and 320 CM)** to reduce waste in manufacturing 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



THERMAL AND OPTICAL FACTORS
in the European standard EN 14501

M-SCREEN 8501 - OF 1% M-SCREEN 8503 - OF 3% M-SCREEN 8505 - OF 5%	Thermal factors															Optical factors		
	Fabric									Fabric + Glazing / gtot internal blind						Tv		
	Ts			Rs			As			C : gv = 0,59			D : gv = 0,32					
Colours	8501	8503	8505	8501	8503	8505	8501	8503	8505	8501	8503	8505	8501	8503	8505	8501	8503	8505
0221 White Lotus	18	22	24	66	61	60	16	17	16	0,30 2	0,33 2	0,34 2	0,14 3	0,16 2	0,17 2	17	20	23
0202 White	18	20	21	70	69	67	12	11	12	0,28 2	0,29 2	0,31 2	0,13 3	0,13 3	0,14 3	17	19	21
0220 White Linen	16	20	22	65	60	60	19	20	18	0,30 2	0,34 2	0,33 2	0,14 3	0,17 2	0,18 2	14	17	20
0721 Pearl Lotus	12	17	19	42	41	39	46	42	42	0,41 1	0,41 1	0,42 1	0,22 2	0,22 2	0,23 2	10	15	17
0207 White Pearl	12	14	18	58	53	52	30	33	30	0,33 2	0,36 1	0,37 1	0,16 2	0,18 2	0,18 2	10	13	16
0771 Pearl Apricot	13	20	19	40	40	38	47	40	43	0,42 1	0,42 1	0,43 1	0,22 2	0,23 2	0,24 2	11	16	16
0720 Pearl Linen	11	15	17	43	42	41	46	43	42	0,41 1	0,41 1	0,42 1	0,22 2	0,22 2	0,23 2	9	13	15
0210 White Sable	11	14	17	57	52	52	32	34	31	0,34 2	0,37 1	0,37 1	0,17 2	0,20 2	0,20 2	8	11	14
0702 Pearl White	12	14	16	46	49	47	42	37	37	0,39 1	0,38 1	0,38 1	0,20 2	0,19 2	0,20 2	9	12	14
0707 Pearl	9	12	16	38	36	34	53	52	50	0,42 1	0,43 1	0,44 1	0,22 2	0,23 2	0,23 2	7	11	14
0201 White Grey	8	11	15	50	43	44	42	46	41	0,37 1	0,41 1	0,41 1	0,19 2	0,22 2	0,21 2	6	8	12
0121 Grey Lotus	6	12	14	27	28	28	67	60	58	0,47 1	0,47 1	0,48 1	0,26 2	0,26 2	0,27 2	3	8	11
0171 Grey Apricot	7	12	15	25	28	26	68	60	59	0,48 1	0,48 1	0,48 1	0,27 2	0,27 2	0,27 2	3	8	11
0701 Pearl Grey	7	9	12	32	29	29	61	62	59	0,44 1	0,47 1	0,48 1	0,25 2	0,25 2	0,25 2	4	7	10
0730 Pearl Charcoal	4	6	9	24	22	22	72	72	69	0,46 1	0,49 1	0,49 1	0,25 2	0, 27 2	0,27 2	4	5	8
0101 Grey	4	7	11	20	20	20	76	73	69	0,52 0	0,52 0	0,51 0	0,29 2	0,28 2	0,29 2	2	4	8
3002 Charcoal White	1	4	7	17	22	20	82	74	73	0,51 0	0,49 1	0,50 0	0,28 2	0,26 2	0,27 2	1	4	6
3071 Charcoal Apricot	1	4	7	10	14	12	89	82	81	0,54 0	0,52 0	0,53 0	0,30 2	0,29 2	0,29 2	1	4	6
3006 Charcoal Bronze	0	3	5	6	6	6	94	91	89	0,55 0	0,56 0	0,55 0	0,30 2	0,31 2	0,31 2	0	3	6
3010 Charcoal Sable	1	5	6	11	12	12	88	83	82	0,54 0	0,53 0	0,53 0	0,30 2	0,29 2	0,29 2	1	5	5
3001 Charcoal Grey	1	4	6	8	9	9	91	87	85	0,55 0	0,54 0	0,55 0	0,30 2	0,30 2	0,31 2	1	4	5
3030 Charcoal	1	3	4	5	6	5	94	91	91	0,55 0	0,56 0	0,56 0	0,31 2	0,31 2	0,31 2	0	3	4

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: 1 very little effect 2 little effect 3 moderate effect 4 good effect 5 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”.

TECHNICAL DATA

	M-SCREEN 8501	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 / B5 (GB) - 476 Pt 6 & 7 Class 0 Euroclass C-s3-d0 (EU) - EN 13501-1 mounted according to EN 13823 & EN 14716 IMO - MED 2014/90/EU *** CLASE 1 (SP) - EN 13773 *** FR (US) - NFPA 701 HHV: 15,7 MJ/kg (8501: 6,91 MJ/m² - 8503: 6,51 MJ/m² - 8505: 6,12 MJ/m²)		
Health, safety	Greenguard® GOLD: 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 100%	Up to 98%	Up to 96%
Widths	200 - 250 - 320 cm		
Weight/m² - ISO 2286 - 2	440 g ± 5%	415 g ± 5%	390 g ± 5%
Thickness - ISO 2286 - 3	0,50 mm ± 5%	0,48 mm ± 5%	0,50 mm ± 5%
Colour Fasteness to light (scale of 8)	7/8 - ISO 105 B02 (white not graded)		
Mechanical resistance	WarpWeft	WarpWeft	WarpWeft
Breaking (daN/5 cm) - ISO 1421	> 150> 140	> 150> 150	> 120> 140
Tear (daN) - EN 1875-3	≥ 5≥ 4	≥ 5≥ 4	≥ 5≥ 4
Folding (daN/5 cm) - ISO 1421**	≥ 70≥ 40	≥ 50≥ 50	≥ 50≥ 50
Elongation (warp and weft)	< 5% - ISO 1421		
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 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

*** M-Screen 8505 only

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: 200 - 250 - 320 CM

0207

0201

0702

0721

0707

0701

0730

0121

0101

3002

3001

0202

0221

0220

0210

0720

0771

0171

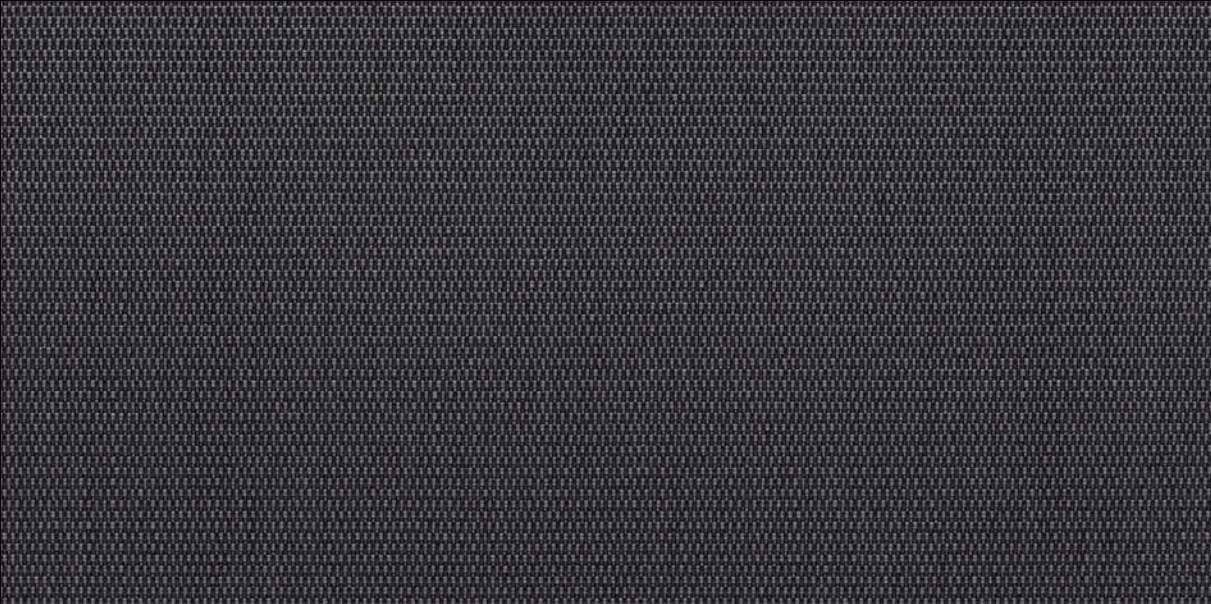
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3010

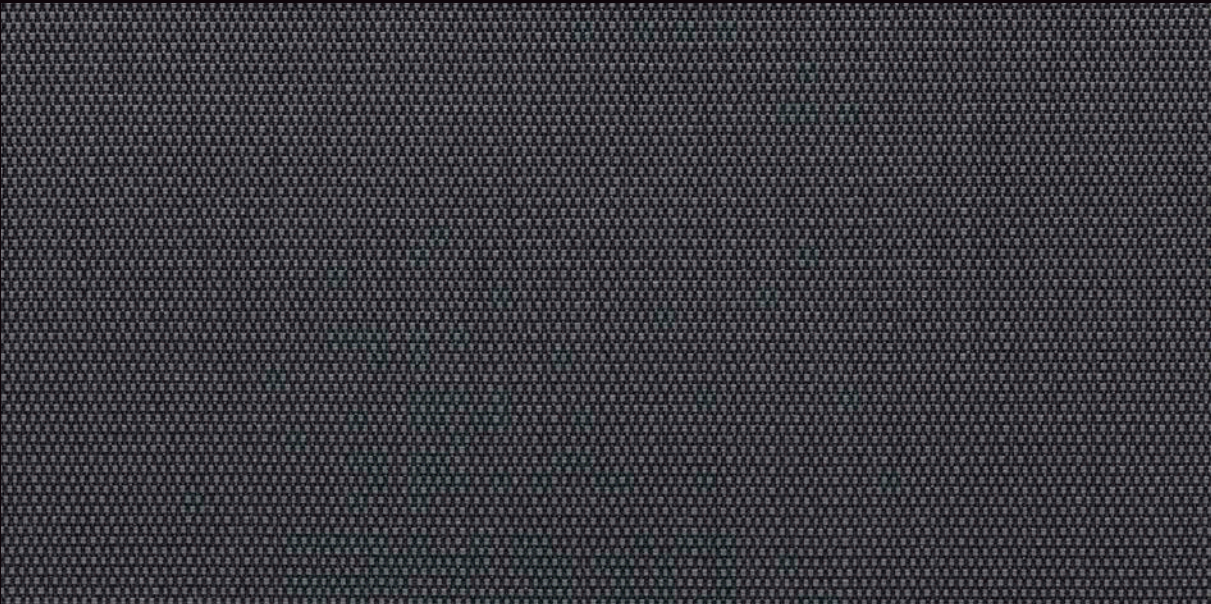
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3030

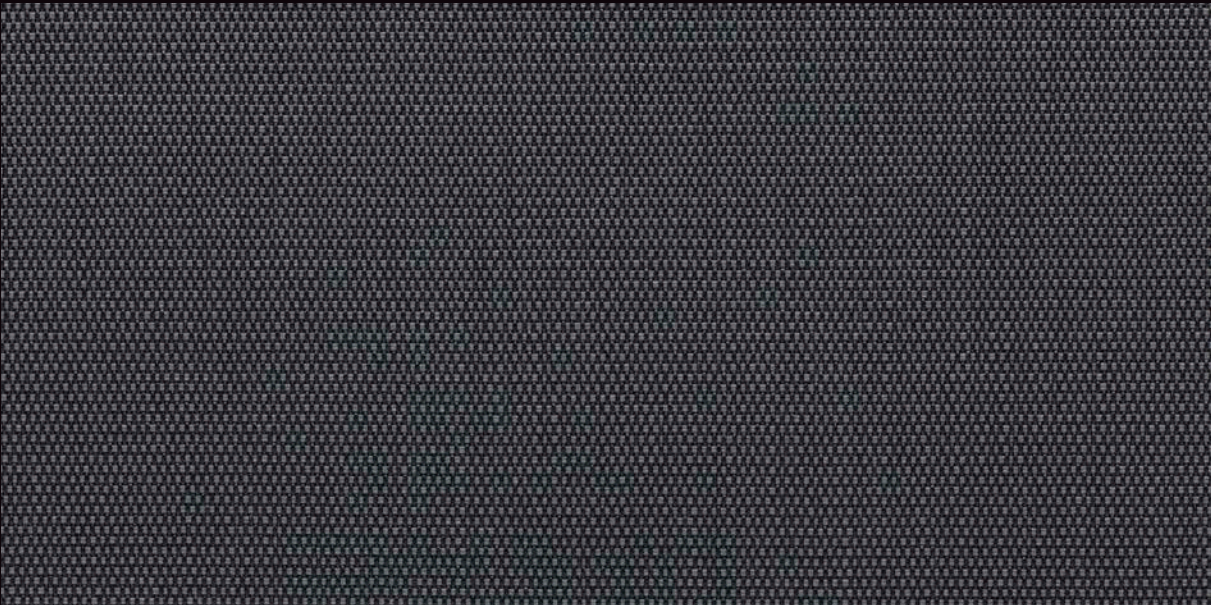
8501
3001



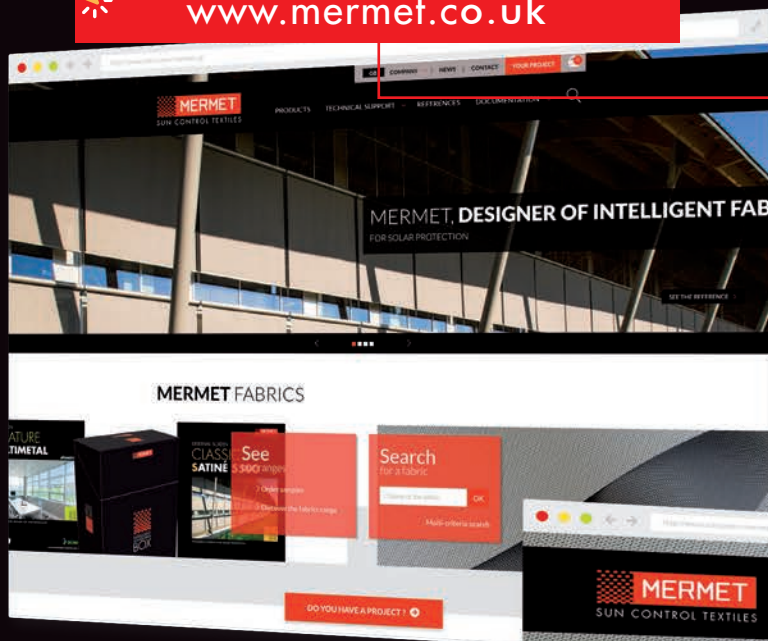
8503
3001



8505
3001



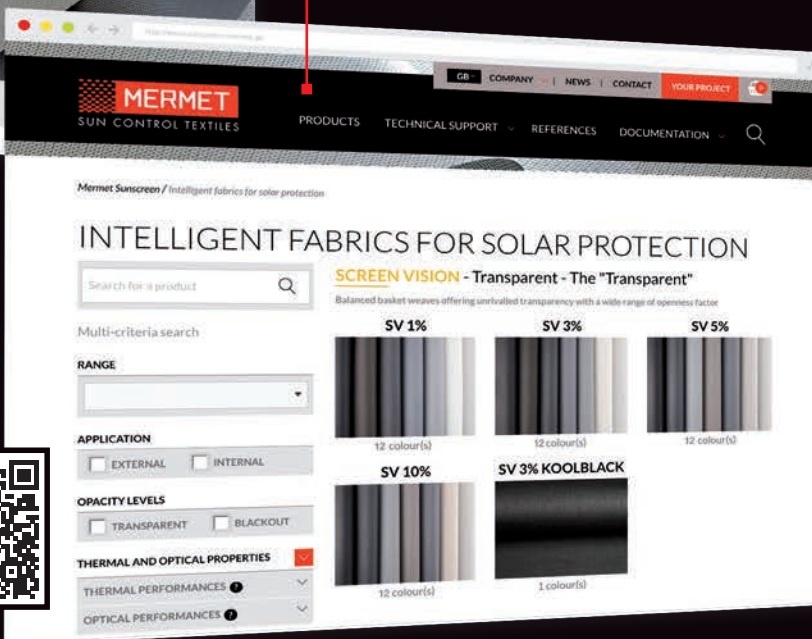
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