

E-Screen 7505 & 7510

PRODUCT FEATURES

- 9 colours with 2 openness factors of 5% (7505) or 10% (7510)
- basket weave: maximum transparency, excellent thermal & visual comfort
- E-Screen 7510: the ultimate fabric to maintain the view to the outside
- excellent printing medium, high mechanical resistance for tensile structures
- human & ecologically-friendly fabric
- intelligent fabric for internal applications



ROLLER
BLINDS



ROMAN
SHADES



DECORATIVE
PANELS



VERTICAL BLINDS
(7505 only)



VELUMS



SKYLIGHT
BLINDS



ROOF LIGHT
BLINDS



FLAT
STRUCTURES



SHAPED
STRUCTURES



VOLUME
STRUCTURES

E-Screen 7505 & 7510

THERMAL & OPTICAL PROPERTIES (ASHRAE 74-73)

COMFORT FACTORS

GUIDE TO THERMAL & OPTICAL FACTORS

COLOURS	Fabric			Fabric & glazing		Tv	modulight® 1 rapid selection 40			
	Ts	Rs	As	1/4" Cl	1/4" H.A.		NL	EC	HP	CV
							Sc internal blind			
E-SCREEN 7505 Average Openness Factor of 5%										
0202 White	27	59	14	0.41	0.36	20	25	11	25	20
0220 White Linen	25	54	21	0.43	0.37	18	24	13	24	21
2020 Linen	17	53	30	0.42	0.36	13	21	16	23	22
0720 Pearl Linen	17	42	41	0.49	0.40	13	20	17	20	22
0207 White Pearl	21	46	33	0.47	0.39	17	23	14	23	22
0707 Pearl	18	33	49	0.55	0.43	14	20	17	18	22
3001 Charcoal Grey	8	10	82	0.68	0.50	8	15	23	11	25
3006 Charcoal Bronze	8	6	86	0.69	0.51	9	15	22	11	24
3030 Charcoal	7	4	89	0.70	0.51	8	15	23	11	25
E-SCREEN 7510 Average Openness Factor of 10%										
0202 White	30	57	13	0.43	0.37	23	28	8	21	27
0220 White Linen	28	53	19	0.45	0.38	22	27	9	20	28
2020 Linen	24	48	28	0.47	0.39	20	24	12	20	29
0720 Pearl Linen	24	39	37	0.53	0.42	19	24	12	18	29
0207 White Pearl	24	47	29	0.48	0.39	19	25	11	20	29
0707 Pearl	26	32	42	0.57	0.45	20	24	12	16	29
3001 Charcoal Grey	10	8	82	0.68	0.50	12	17	19	9	32
3006 Charcoal Bronze	13	5	82	0.71	0.52	14	18	18	9	31
3030 Charcoal	11	4	85	0.71	0.52	12	17	19	9	32

SOLAR PROTECTION AND LIGHT CONTROL INDICATORS ARE LABORATORY-TESTED. THE MOST RELEVANT AND WIDELY-USED FACTORS ARE AS FOLLOWS:

THERMAL FACTORS

- Thermal factors relating to the fabric alone

Ts Solar Transmittance

This factor measures the proportion of solar energy transmitted through the fabric. A low percentage means the fabric performs well at reducing solar energy.

Rs Solar Reflectance

This factor measures the proportion of solar radiation reflected by the fabric. A high percentage means the fabric performs well at reflecting solar energy.

As Solar Absorbance

This factor measures the proportion of solar radiation absorbed by the fabric. A low percentage means the fabric absorbs little solar energy.

Solar radiation is always partially transmitted through, absorbed or reflected by the fabric. The sum of all 3 equals 100. $T_s + R_s + A_s = 100\%$ of solar energy.

OPTICAL FACTORS

Tv Visible Transmittance

This factor measures the percentage of visible light coming through the fabric that can be seen by the naked eye. It is related to the amount of light (brightness) a person receives through a glazing system. A low figure shows a very efficient fabric.

Of Openness Factor

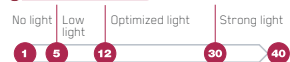
This factor measures the proportion of holes in a woven fabric. This parameter, together with other technical properties of the fabric, should be considered when determining the degree of visibility and heat and glare control, that the fabric offers. The openness factor can vary slightly from colour to colour in the same fabric, and is often expressed as an Average OF. A low OF indicates that the fabric has a very close weave.

Sc Shading Coefficient

This factor shows how effective the fabric is at filtering the heat from solar radiation. It is expressed as a factor between 0 and 1. A low figure means high protection from heat flow.

PINPOINT THE PERFORMANCE FACTORS

NL NATURAL LIGHT



NL LEVEL OF INCOMING NATURAL LIGHT

For the same type of fabric, light colours let through more light than dark colours.

EC EYE COMFORT



EC GLARE CONTROL

For the same type of fabric, dark colours provide better glare control than light.

HP HEAT PROTECTION



HP PROTECTION AGAINST THE HEAT GAIN FROM SUNLIGHT

Light colours installed inside give better protection from the heat than dark colours. For external installations, the reverse applies.

CV CONTRAST VISION



CV QUALITY OF OUTWARD VISIBILITY

The quality of visibility does not only depend on the openness or light transmission, it also depends on colour. Darker colours will provide better outward visibility.

E-Screen 7505 & 7510

TECHNICAL DATA

	E-SCREEN 7505	E-SCREEN 7510	
COMPOSITION	36% Fibreglass 64% PVC	36% Fibreglass 64% PVC	
FIRE CLASSIFICATION	M1 (F)	M1 (F)	NFP 92 503
	FR (USA)	FR (USA)	476 Pt 6 Class 0
			NFPA 701 - 89 Small
			NFPA 701 - 89 Large
			NFPA 701 - 96 TM #1
	AS (AUS)	AS (AUS)	California US Title 19
	C UNO (IT)	C UNO (IT)	AWTA Tested AS 1530
	B1 (CN)	B1 (CN)	part 3 *
			UNI 9177
			GB 50222-95
OPENNESS FACTOR	Average 5%	Average 10%	
UV BLOCKAGE	Between 89 & 94%	Between 89 & 90%	
WIDTH	250cm	250cm	
PATTERN	Basket weave 2 x 2	Basket weave 2 x 2	
YARN COUNT	Warp 22 yarns/cm ± 5%	22 yarns/cm ± 5%	ISO 7211/2
	Weft 20 yarns/cm ± 5%	15 yarns/cm ± 5%	
WEIGHT PER M ²	410g ± 5%	350g ± 5%	ISO 2286 - 2
THICKNESS	0.50mm ± 5%	0.55mm ± 5%	ISO 2286 - 3
BREAKING STRENGTH	Warp > 190 daN/5cm	> 190 daN/5cm	ISO 1421
	Weft > 190 daN/5cm	> 100 daN/5cm	
ELONGATION TO BREAK POINT	Warp & Weft < 5%	< 5%	ISO 1421
TEAR RESISTANCE	Warp & Weft 6 ≥ 10 daN	6 ≥ 10 daN	Internal procedure
RESISTANCE TO FOLD	Warp & Weft ≥ 20 daN/5cm	≥ 20 daN/5cm	Internal procedure
COLOUR FASTNESS TO LIGHT	7/8	7/8	ISO 105 B02
	Scale of 8 White not graded	White not graded	
MARKING	Digital printing / Screen printing / Transfer / Paint / Adhesive		
MAKING-UP	Welding (thermal, high frequency, ultrasonic) or sewing		

* Complies with the General Requirements of the Building Code of Australia for Fire Hazard Properties of materials in buildings. Not suitable for use in parts of buildings with Special Requirements, i.e. fire isolated exits; public corridors leading to a fire isolated stairway, passageway or ramp; a patient care area of health care buildings; and in a public assembly building (eg. theatre or hall) not protected with a sprinkler system.

^ Available for download at mermet.com.au

PRODUCT INFORMATION

E-SCREEN 7505 & 7510 THE ULTIMATE TRANSPARENT FABRIC TO FILTER THE LIGHT OR GIVE FLUIDITY TO SPACE

Maximum transparency

The secret lies in the uniform coating of the fibreglass yarns, the fineness of the yarn and the regularity of the basket weave, all of which offers a very clear view to the outside. E-Screen 7505 & 7510 create discrete blinds. Transparency is greatest with dark colours.

The best of natural light

Natural light is vital for well-being: the basket weave of E-Screen 7505 & 7510 gives you excellent glare control (it reflects up to 92% of the light rays and up to 94% of UV rays).

Thermal comfort

E-Screen 7505 & 7510 reflect up to 64% of solar radiation and prevent heat loss in winter. Advantages: energy saving, reduced green-house gas emissions.

A great communication medium

Whatever printing technique is used, legibility is perfect, even in artificial light, and the fabric retains its transparency.

Strength and peace of mind guaranteed

Made of coated fibreglass yarns, E-Screen 7505 & 7510 have excellent mechanical resistance allowing them to be tensioned. E-Screen 7505 & 7510 are unaffected by the heat. Labeled Oekotex Standard 100, they contain no chemicals harmful to the health and safety of users. They are non-flammable and easy to maintain.

CARE INSTRUCTIONS

Remove dust with vacuum cleaner or compressed air. Do not scrub. Do not use solvents or any abrasive substance that might damage the coating of the fabric.

Clean with a sponge or soft brush dipped in soapy water. Rinse with clear water.

Leave the blind down until completely dry.

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for more detailed ecological and/or health information on this product refer to www.ecospecifier.org

