

## T-Screen 9603

### PRODUCT FEATURES

- 7 neutral colours with a 3% openness factor for excellent glare protection
- enhanced glare control: tighter twill weave
- duo colour: lighter side facing outward to reflect light & heat and a darker side facing inward to preserve the view
- human & ecologically-friendly fabric
- intelligent fabric for internal applications



ROLLER  
BLINDS



ROMAN  
SHADES



DECORATIVE  
PANELS



VELUMS



SKYLIGHT  
BLINDS



ROOF LIGHT  
BLINDS



FLAT  
STRUCTURES



SHAPED  
STRUCTURES



VOLUME  
STRUCTURES

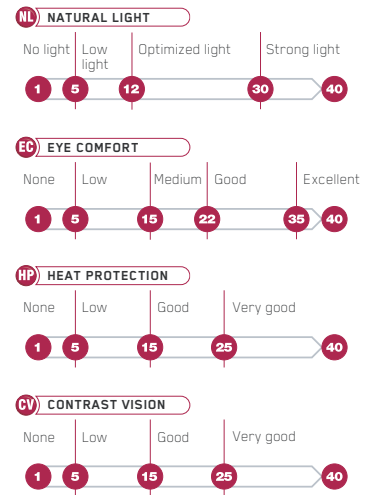
## THERMAL & OPTICAL PROPERTIES (ASHRAE 74-73)

## COMFORT FACTORS

## PINPOINT PERFORMANCE FACTORS

Openness factor of 3%

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									
M113 White Bronze Sable	Side A dark	10	31	59	0.54	0.43	10	15	25	22	15
	Side B	10	45	45	0.46	0.38	10	15	23	26	14
M79 Linen Grey Bronze	Side A dark	8	21	71	0.60	0.46	8	12	28	19	15
	Side B	8	34	58	0.52	0.42	8	12	26	22	15
3010 Charcoal Sable	Side A dark	6	11	83	0.66	0.49	6	11	30	17	16
	Side B	6	21	73	0.60	0.46	6	11	27	19	15
M116 White Charcoal Grey	Side A dark	8	21	71	0.60	0.46	8	14	26	22	16
	Side B	8	34	58	0.52	0.42	8	14	23	24	14
0230 White Charcoal	Side A dark	6	18	76	0.61	0.47	7	12	28	15	16
	Side B	6	38	56	0.49	0.40	7	12	25	25	14
M85 Charcoal Pearl Linen	Side A dark	7	11	82	0.66	0.49	7	11	30	13	15
	Side B	7	22	71	0.59	0.45	7	11	29	17	15
3001 Charcoal Grey	Side A dark	5	7	88	0.68	0.50	6	10	31	12	16
	Side B	5	12	83	0.65	0.48	6	10	31	13	16



## GUIDE TO THERMAL & OPTICAL FACTORS

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. Ts + Rs + As = 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.

**NL LEVEL OF INCOMING NATURAL LIGHT**  
For the same type of fabric, light colours let through more light than dark colours.

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

**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 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.

## TECHNICAL DATA

COMPOSITION	36% Fibreglass 64% PVC	
FIRE CLASSIFICATION	M1 (F) BS (GB) FR (USA)  AS (AUS)  C UNO (IT) B1 (CN)	NFP 92 503 476 Pt 6 Class 0 NFPA 701 - 96 TM #1 California US Title 19 AWTA Tested AS 1530 part 3 * UNI 9177 GB 50222-95
OPENNESS FACTOR	Average 3%	
UV BLOCKAGE	Up to 94%	
WIDTH	250cm	
PATTERN	Twill	
YARN COUNT	Warp Weft	22 yarns/cm ±0.5% 20 yarns/cm ±0.5%
		ISO 7211/2
WEIGHT PER M <sup>2</sup>	430g ±5%	
		ISO 2286 - 2
THICKNESS	0.75mm ±5%	
		ISO 2286 - 3
BREAKING STRENGTH	Warp Weft	> 150 daN/5cm > 150 daN/5cm
		ISO 1421
ELONGATION TO BREAK POINT	Warp & Weft	<5%
		ISO 1421
TEAR RESISTANCE	Warp & Weft	6 ≥ 10 daN
		Internal procedure
RESISTANCE TO FOLD	Warp & Weft	≥ 20 daN/5cm
		Internal procedure
COLOUR FASTNESS TO LIGHT	7/8 Scale of 8	ISO 105 B02 White not graded
MARKING	Digital printing / Screen printing Transfer / Paint / Adhesive	
MAKING-UP	Welding (thermal, high frequency, ultrasonic) or sewing	

## PRODUCT INFORMATION

### T-SCREEN 9603

IMPROVES WORKPLACE PRODUCTIVITY (VISUAL & THERMAL COMFORT)

#### Double-sided fabric for double efficiency

T-Screen 9603 with the dark side facing inwards optimises outside visibility and, with the light side facing the window, reflects solar radiation for maximum heat protection.

#### Higher glare control

T-Screen 9603's regular twill weave screens solar radiation from all angles. It filters up to 94% of the light rays. This glare control ensures visual comfort at all times of the day, and prevents disturbing reflections on monitor screens. The fabric also reflects up to 94% of UV rays.

#### Thermal comfort

The double-sided twill weave of T-Screen 9603 reflects up to 66% of solar radiation. It helps create a pleasant environment all year round and thus boost productivity. T-Screen 9603 helps to save energy and reduce building operating costs (air-conditioning and heating) and greenhouse gas emissions.

#### Transparency

Excellent for the well-being of users, transparency is the result of the uniform coating of the fibreglass yarns, the fineness of the yarn and the regularity of the weave. Optimum transparency is obtained with the dark side facing inwards.

#### Strength and peace of mind guaranteed

Made of coated fibreglass yarns, T-Screen 9603 has excellent mechanical resistance allowing it to be tensioned, and perfect dimensional stability in panels of all sizes. T-Screen 9603 is unaffected by heat. Labeled Oekotex Standard 100, it contains no chemicals harmful to the health and safety of users. It is non-flammable and easy to maintain.

#### A great communication medium

Whatever printing technique is used, T-Screen 9603 ensures perfect legibility, even in artificial light.

### 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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\* 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.

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