



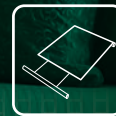
GreenScreen™ *Quantum*

PRODUCT FEATURES

- environmentally-friendly fabrics
- enhanced glare control:
1% openness factor
- maximum reflection of solar energy:
metallised backing
- intelligent fabric for internal blinds



ROLLER
BLINDS



SKYLIGHT
BLINDS



DECORATIVE
PANELS

THERMAL & OPTICAL PROPERTIES (EUROPEAN STANDARD EN 14501)

GUIDE TO THERMAL & OPTICAL FACTORS

Average Openness Factor of 1%

COLOURS	Fabric			Fabric & glazing			Tv
	Ts	Rs	As	gv=0.85	gv=0.59	gv=0.32	
	gtot internal blind						
4750 Bronze White	6	51	43	0.39	0.39	0.25	3
1887 Black White	7	63	30	0.32	0.35	0.24	7
1260 Pearl Linen	6	52	42	0.39	0.39	0.25	5
0888 Silver Grey	6	52	42	0.38	0.39	0.25	5
1000 Light Grey White	7	51	42	0.39	0.39	0.26	7
0750 Beige White	7	54	39	0.38	0.38	0.25	6

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.

gtot Factor

Solar energy which actually penetrates into a room through the blind and glazing. A low figure means good thermal performance.

gv = 0.85: solar factor for clear single glazing.

gv = 0.59: solar factor of standard glazing, low-emission 4/16/4 double glazing filled with Argon.

gv = 0.32: solar factor of standard glazing, reflecting low-emission 4/16/4 double glazing filled with Argon.

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.

Samples tested by the calculation methods laid down in standards EN 13363-1 "Solar protection devices combined with glazing - calculation of solar and light transmittance - Part 1: simplified method" and EN 410 "Glass in building - Determination of luminous and solar characteristics of glazing".



TECHNICAL DATA

COMPOSITION	100% Polyester	
FIRE CLASSIFICATION	AS (AUS)	AWTA Tested AS 1530 part 3 *^
OPENNESS FACTOR	Average 1%	
UV BLOCKAGE	Up to 95%	
WIDTH	240cm	
WEIGHT PER M ²	170g ± 5%	ISO 2286 - 2
THICKNESS	0.38mm ± 5%	ISO 2286 - 3
COLOUR FASTNESS TO LIGHT	7/8	ISO 105 B02
	Scale of 8	White not graded
MAKING-UP	Welding with welding tape (thermal or high frequency), Ultrasonically cut	

* 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

QUANTUM

OFFERS NATURAL LIGHT AND GLARE CONTROL

Recyclable

Since Quantum is made of eco-friendly materials, the fabric is easier to recycle. Discarded fabric can now be diverted from landfills and turned into a variety of new textile possibilities. Quantum can contribute to a healthy and efficient environment.

Eco-friendly

The ecosystem of our planet is a complex and sensitive system. The choices we make in the products we use for constructing buildings, homes and workplaces affect that fragile balance. To reduce possible harmful by-products, Quantum eliminates the use of less eco-friendly chemicals during construction, making them safe for both indoor and outdoor environments.

Indoor air quality

Most Mermet fabrics have been tested for their Volatile organic compound emission. When Quantum is used in the typical manner in an office building the resulting airborne total volatile organic compound concentration can be expected to be less than 0.5 mg/m³ as specified by Green Building Council of Australia Green Star Office Interiors IEQ-11. (certificate available at www.mermet.com.au)

Heat protection and visual comfort

Quantum is a knitted fabric with a very small openness factor; therefore the visual comfort is maximized. The fabric also has a metalised backing to help reflect a large portion of solar energy, and reduce heat gain in the building.

CARE INSTRUCTIONS

All types of chemicals will cause permanent damage to the fabric. Therefore, if cleaning windows, the blind will need to be raised to avoid any direct or indirect spray or splatter of chemicals on the fabric.

Routine Cleaning: Metalised fabrics are anti-static, and as such they repel dust. Regular light dusting with a feather duster is suggested. A hand-held vacuum with low suction may also be used. When vacuuming, avoid pulling or stretching the fabric. Rigorous vacuuming is not recommended as it can distort the fabric. Alternatively, dirt and debris can be blown away using compressed air or a hand-held hairdryer on the cool setting.

Spot Cleaning: When needed, fabrics can be spot cleaned by gently blotting with a dry chemical sponge. Be careful not to apply too much pressure to the fabric.

Professional Cleaning: GreenScreen™ is suitable to be cleaned ultrasonically.

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