

TESS™ TENSIONED SHADING SYSTEMS

Fabric collection 2018-19

Tensioned systems require technical fabric that is strong and stable, whilst meeting environmental and aesthetic design criteria. This fabric collection has been selected by our engineers to provide an optimum combination of these factors. Guthrie Douglas approved fabrics are rigorously tested under the most demanding conditions to ensure consistent performance over thousands of cycles.

Guthrie Douglas

FABRIC TYPES

The fabrics presented here reach the highest performance standards and can be used on all tension systems regardless of size, shape or orientation. We have categorized them into three groups:

- **STANDARD SCREEN FABRICS** with a range of openness factors for optimum visual comfort and heat protection;
- **SPECIALIST SCREEN FABRICS** with advanced materials and finishing techniques such as metallisation for best in class heat protection, glare control, and aesthetic finish;
- **BLACKOUT FABRICS** for complete light control, privacy, and insulation.

SAMPLES & TESTING

Once you have selected a fabric type, please get in touch for further specification data and samples. An A5 booklet of grey samples of our standard fabrics is available free of charge. Other colour or size samples can be delivered within 10 working days for a minimum handling charge of £50.

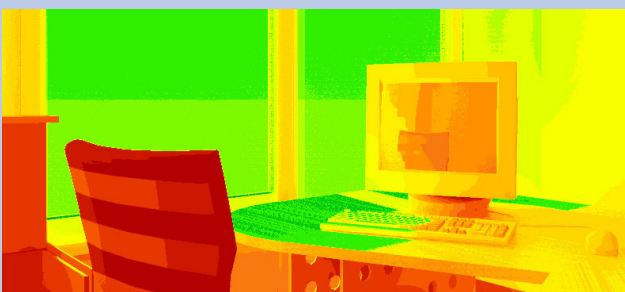
There are thousands of technical fabrics on the market, many of which are compatible with TESS™ systems. For fabrics outside of our approved collection, we offer a desktop suitability assessment at no charge. Alternatively, you can submit a sample of the fabric to our testing service. Please get in touch for details and charges.

DATA VALUES EXPLANATION

VISUAL COMFORT OR GLARE CONTROL

Glare and comfort is subjective, but a Total Transmitted Light (T_V) value gives an indication of fabric performance in regulating brightness, reducing glare and managing contrast. The T_V value of a fabric is the total percentage of daylight transmitted into the room, made up of two elements; the direct light through the open spaces of the fabric and the light that is diffused through the fibre.

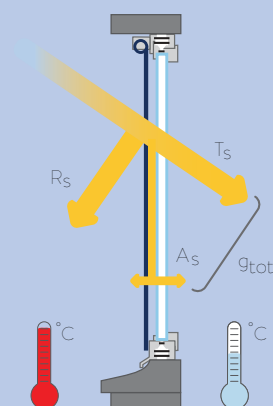
Maintaining view-through for visual comfort and wellbeing, whilst managing glare, is possible through a combination of colour choice and openness. The application of specialist fabric coatings widens the colour choices available and is extremely beneficial for solar energy control.



SOLAR ENERGY CONTROL

The g_{tot} , or total solar energy transmittance, is the percentage of solar energy that reaches the interior of a building, penetrating through the blind and glazing. It is calculated from a number of factors, including direct transmittance (T_s), reflectance (R_s), and absorptance (A_s), as illustrated here on an external shading system.

The closer the fabric's index is to 0, the more efficient it is in terms of protection against the sun's heat



STANDARD SCREEN FABRICS

High performance polymer fabrics, woven or set and heat treated for strength and stability under tension. Composite construction offers minimal stretch characteristics at high tensile loads giving extended life and service intervals.

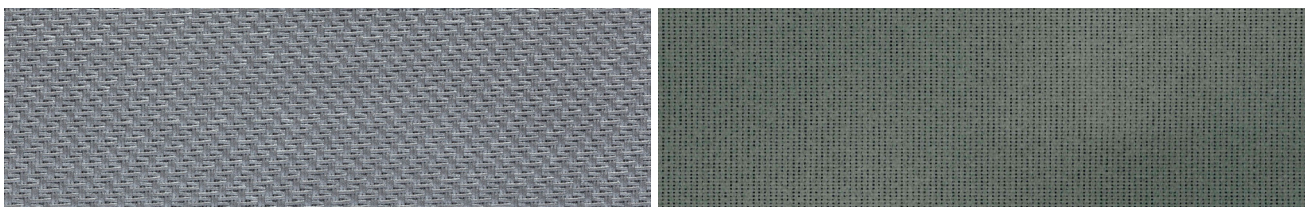
	HEAT PROTECTION		GLARE PROTECTION	COMPOSITION	FIRE RATING
	LOWEST INTERNAL g_{tot}	LOWEST EXTERNAL g_{tot}	LOWEST T_v		
TESS™ Screen 1%	0.42	0.08	1.1	Fibre-reinforced Polymer	B1
TESS™ Screen 3%	0.35	0.09	4.4	Fibre-reinforced Polymer	B1
TESS™ Poly 5%	0.34	0.05	3.0	Polymer	B1



SPECIALIST SCREEN FABRICS

All the strength and durability of a TESS™ screen fabric, with a finer woven appearance for interior design driven applications, and metallised options for exceptional heat and glare reduction.

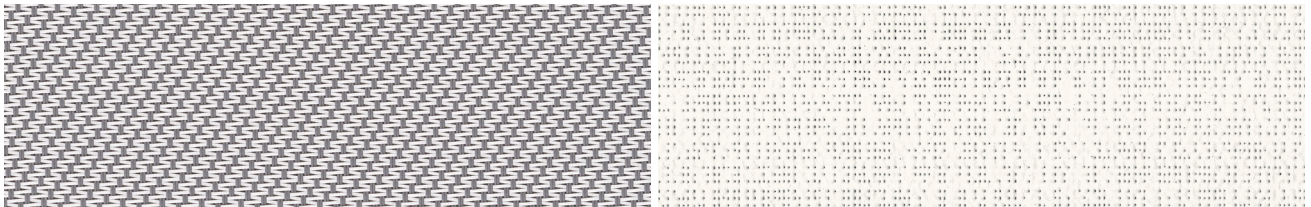
	HEAT PROTECTION		GLARE PROTECTION	COMPOSITION	FIRE RATING
	LOWEST INTERNAL g_{tot}	LOWEST EXTERNAL g_{tot}	LOWEST T_v		
TESS™ MetalScreen 2%	0.29	0.04	3.0	Metal-coated Fibre-reinforced Polymer	B1
TESS™ FineWeave 3%	0.36	0.05	2.9	PVC-free Polymer	B1



BLACKOUT FABRICS

High performance blackout fabrics, with precise multi-layered construction offering strength and flexibility under tension, and total light blocking performance.

	HEAT PROTECTION		GLARE PROTECTION	COMPOSITION	FIRE RATING
	LOWEST INTERNAL g_{tot}	LOWEST EXTERNAL g_{tot}	LOWEST T_v		
TESS™ ScreenBlock	0.24	0.03	0	Fibre-reinforced & Polymer Laminate	B1
TESS™ PolyBlock	0.34	0.03	0	Polymer	B1



DESIGN
SOMETHING
EXTRAORDINARY