



**Product Name:**

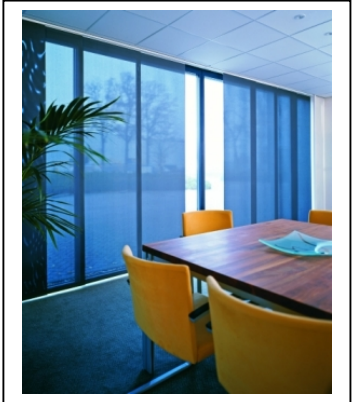
Verosol- Silverscreen™ Fabrics [ECG]

**Overview:**

Range of ultra low VOC semi-transparent heat and glare control window covering fabrics for residential and commercial interior applications.

**Product Description:**

Verosol's Silverscreen™ fabrics are ultra low VOC fabrics for use as internal window coverings. The high performance fabrics have an aluminised backing vacuum bonded to one side of the PVC coated woven fibreglass/sunscreen fabric. Silverscreen™ effectively reduces heat and glare in internal spaces while maximising vision out. The fabrics can achieve significant reductions in the demand for air conditioning, reducing electricity consumption and greenhouse gases.



Silverscreen™ fabrics are designed to resist moisture, bacteria, fading and warpage and are antimicrobial. Odour is also prevented from building up. The fabric regulates natural light whilst screening UV penetration and glare.

Constructed from a permanent flame retardant PVC fibreglass yarn. Silverscreen™ is designed specifically for manual and motorised roller blind, panel glide and roman blind systems.

**Options:**

1900mm and 2400mm widths are available.

**Colours:**

Available in 5 standard colours- Black, Dark Grey, Light Grey, Beige, White.

**Warranty:**

5 years.

**Expected Life:**

Silverscreen™ has been around for 4 years, but service should well exceed 7 to 10 years plus. Manufacturer claims that many clients have had their metallised blinds for over 20 years. Limitations would be use of harmful cleaning agents on the product or basic abuse.

**Constituents:**

- PVC (DNP or DINP)- 64%
- Fibreglass- 36%,
- Aluminium- less than 1%
- Polyurethane finish- less than 1%

**Technical Specifications:**

Fabric	Solar transmittance	Solar reflectance outside	Solar absorptance	Luminous transmittance	Luminous reflectance outside	Luminous absorptance	UV transmittance
Approx. for full	5%	76%	19%	5%	74%	21%	5%

Silverscreen colour range							
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#### Glazing Type-

	Single 3mm Clear Glass	Solar Control Glazing
Light Transmittance	5%	5%
Shading Co-efficient	23%	16%
U-value (W/m <sup>2</sup> K)	1.7	0.7
G-Value	20%	14%

#### Flame Retardancy (AS 1530.3:1989):

Ignitability index	18	Range (0-20)
Spread of flame index	0	Range (0-10)
Heat evolved index	0	Range (0-10)
Smoke developed index	4	Range (0-10)

#### Purchase Options:

Can be purchased through Verosol's extensive network of appointed window furnishing distributors. Refer to [www.verosol.com.au](http://www.verosol.com.au) for your nearest authorised Verosol dealer.

#### Discussion:

Verosol had Silverscreen formally tested by an Australian third party testing authority. The product was found to have ultra low VOC emissions of 0.05mg/m<sup>2</sup>/hr. This is well below the maximum allowable emissions of 0.5mg/m<sup>2</sup>/hr under the GBCA standards (US Carpet and Rug Institute Green Label).

Verosol Silverscreen™ fabrics are PVC based. PVC is a contentious material and has been widely studied and researched regarding potentially adverse health impacts. This is due to the various plasticisers used to soften PVC. Please see Issues of Concern.



**Raw Materials Issues:** Primary constituent of the fabric is PVC. See Issues of Concern.

**Preparation:** Verosol Silverscreen™ operates in conjunction with Verosol Roller blind hardware. To ensure that the aluminium backing is not compromised, all blinds are supplied with a special foam protection and warning label that requires the product is installed using cotton gloves and that hands are clean and free from any acids released by the skin, e.g. perspiration.

#### Durability:

**Design For Dematerialisation:** No

**Design For Disassembly:** Yes. All components can be stripped from the blind, including fabric and all blind hardware components.

**Repairability:** First, clean the fabric with a soft feather duster or by vacuum cleaning at the lowest position. If a more intensive cleaning is required you can use wet cloth for cleaning the coloured side.

**Reusability:** If looked after, blinds can be returned for alteration, eg, to suit new window openings, for example due to changes in office configuration or design which extends their useable life.

**Recyclability:** Verosol is not equipped to recycle fabric.

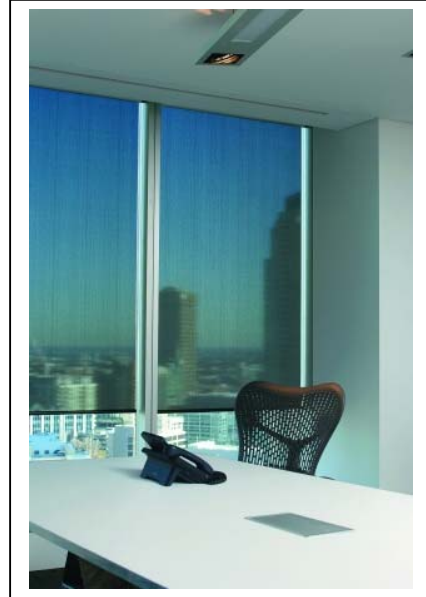
**Maintenance:** Always keep in raised position when windows are open. Fabric is dust repellent. Use luke warm water to clean off any blemishes on the coloured side. Otherwise feather duster or vacuum on low cycle.

**Product Takeback Scheme Offered?:** No

#### **Issues of Concern/ Red Lights?**

The primary constituent of the fabric is PVC (approx 64%). PVC is a contentious material, and plasticised PVC contains phthalates.

A study released by the European Union in 2006 assessed the safety of the most commonly used plasticisers in PVC. This study found that DIDP and DINP (the main plasticiser used in Silverscreen™ fabrics) are non-hazardous and considered safe for use.



<http://www.plasticisers.org/pressrelease/details/index.asp?id=9>

Please see Glossary for more information on PVC.

#### **Assessment Comparison:**

Standard window covering fabrics, eg PVC, cotton, wool, viscose etc.

#### **Indicative cost:**

Supply: Price depends on size (width x drop) and type of blind hardware used.

Install: Depending on surface and type of blind used, can vary from \$20.00 per blind through to \$50.00 per blind.

There is an average lead time of 3 weeks, depending on quantity of order. Please contact Verosol to confirm pricing.

#### **Projects:**

NSW - 2 Market St Sydney, Toshiba Head Office, School of I.T University of Sydney, Smith Knight Merz building, St Leonards, 3 Rider Boulevard Rhodes, Pomeroy Apartments.

SA - 151 Pirie St Adelaide (4 star rated), Towers Project, City Central (5 star rated).

VIC/TAS - Australian Bearue of Metrology, Child Support Services.

QLD- Colorado Building, Suncorp Metway H.O (Brisbane Square), Roche Mining H.O, Millenium Arts Library, Griffith University, Minter Ellison.

WA - BHP Offices, Dept Housing & Works, Tempo Building, Sun Moon Resort, Ellenbrook Middle School.

**Australian Manufacture/Fabrication:**

Fabric is manufactured in The Netherlands. Compiled in NSW, Australia.

**State Availability:**

NSW, QLD, VIC, WA, SA and TAS

**Green Stars Assessment of Verosol- Silverscreen™ Fabrics:**

**Green Stars Office Interiors Compatibility:**

<b>IEQ-4 Daylight Glare Control</b>	If 100% of blinds or screens installed are Verosol-Silverscreen™ Fabrics, use of these fabrics may contribute towards the possible achievement of 1 credit point.
<b>IEQ-11 Volatile Organic Compounds</b>	If 100% of blinds used are Verosol- Silverscreen™ Fabrics, use of these fabrics may contribute towards the possible achievement of up to 2 credit points.

**Green Stars Office Interiors Compatibility:**

<b>IEQ-5 Daylight Glare Control</b>	If 100% of blinds or screens installed use Verosol-Silverscreen™ Fabrics, use of these fabrics may contribute toward the possible achievement of 1 credit point.
<b>Ene-1 Energy Efficiency (Conditional Requirement)</b>	If Verosol- Silverscreen™ Fabric blinds are installed in the base building, use of these fabrics will contribute towards reduced energy consumption of the building.
<b>Ene- 2 Energy Improvements</b>	If Verosol- Silverscreen™ Fabric blinds are installed in the base building, use of these fabrics will contribute towards reduced energy consumption of the building. (maximum of 12 credit points can be achieved by improving energy efficiency in buildings).

Refer to Green Star Office Interiors for definitions of categories. See GBCA website <http://www.gbcaus.org/greenstar/page.asp?id=117>

**Australian and other Standards:**

AS 1530.3:1989

## Assessment Criteria Satisfied

<b>ENERGY/GREENHOUSE</b>
<ul style="list-style-type: none"><li>• Potential less GHG/ODP down stream</li></ul> <p>- reduced energy demand for air-conditioning</p>
<b>HABITAT &amp; LAND</b>
<ul style="list-style-type: none"><li>• Reduced terrestrial impact</li><li>- potential reduced energy demand for air-conditioning, and the associated environmental impacts of electricity consumption</li></ul> <p>- Fully recyclable, reducing material use in future manufacture</p>
<b>RESOURCE DEPLETION &amp; EFFICIENCY</b>
<ul style="list-style-type: none"><li>• Take-back/ product stewardship</li><li>• Reuse potential</li></ul> <p>- Eco Packaging cardboard tubes and fibreglass coffins are constantly recycled for repacking and distribution. Verosol encourage all state offices to send back undamaged packaging to our NSW dispatch office.</p>
<b>HUMAN HEALTH</b>
<ul style="list-style-type: none"><li>• Low/Reduced Offgassing</li><li>• Reduced toxics or carcinogens</li></ul> <p>- very low VOC fabrics</p>
<b>REDUCES POLLUTION</b>
<ul style="list-style-type: none"><li>• Reduced Life Cycle Toxicity</li><li>• Reduced Smog: Reduction</li></ul> <p>- very low VOC fabrics</p>
<b>OTHER VITAL SIGNS</b>
<ul style="list-style-type: none"><li>• Australian Standard</li><li>• MSDS</li><li>• Independent Verification</li><li>• Doc Manuf Claim</li><li>• Environmental Info about product</li><li>• Environmental Policy</li></ul>