
EXPANDING THE
POSSIBILITIES
WITH Verosol

OUR STORY

Verosol was founded in 1963 by Cornelis Verolme, a famous Dutch shipbuilder. He sailed into New York Harbour, he was marvelled by the impressive skyline and noticed that most of the buildings had large glass façades. He wondered how difficult it would be to manage the indoor climate.

On this particular trip, Cornelis was inspired to find a solution to this problem. He began experimenting tirelessly with many ideas and concepts. This led to the creation of a new concept – the metallisation of fabrics, which would be used to manufacture blinds and curtains.

This new concept made it possible to reflect heat and glare outside the building. Regulating the heat and light creates significant energy savings as well as a much more comfortable environment for occupants.

The initial pioneering innovation led to the birth of the company we know today as Verosol, composed of the first four letters of Cornelis' surname VERO and the word SOL, meaning sun.

Verosol's mission is to create, with our innovative and high quality blind solutions, a better environment in every building.

CONTENTS

GLOBAL LEADERS
IN SOLAR CONTROL FABRICS

Verosol is the world's market leader in total solar screen solutions.

With all-time performance, excellent quality and exclusive aesthetics we create your ultimate comfort zone.

Verosol is continuously innovating to beat the heat and fight the light. We transform buildings into natural, healthy places where people feel free, live fully and perform in the best possible way ever.

Verosol invented reflective metallised fabric and were the first to utilise this technology in window furnishings. We reduce cooling and energy consumption significantly by adding an ultra thin layer of aluminium, allowing freedom to design performance facades.

Verosol keep on improving and pushing the limits to offer you the best integrated service and support and to meet todays energy challenges, because the world is changing rapidly and so is our climate.

EXPANDING THE POSSIBILITIES

Partnering with Verosol guarantees you access to industry benchmark solutions. Bringing style, comfort, quality and durability to windows.

SILVERSCREEN

THE BENEFITS OF SILVERSCREEN ARE AMAZING

- SilverScreen reflects up to 85% of solar radiation (best in market).
- Glare is significantly reduced removing eyestrain and allows visual clarity of computers and TV screens.
- Ultra Violet Radiation entering a room is virtually eliminated, preventing fading and damage to furniture.
- Your view through to the outside world is unaffected, irrespective of the sun's intensity.
- The reduction of heat, light and UV is the same regardless of fabric colour.
- SilverScreen protects and adds longevity to the blind fabrics.
- You get reassurance with a 5 year + warranty.
- SilverScreen is low maintenance, anti-static and dust repellent.

LEADING THE WORLD IN METALLISED FABRIC SOLUTIONS

Fifty years ago, Verosol invented a process whereby a microscopic layer of aluminium was applied onto fabric. This layer was called SilverScreen, and the process was called metallisation.

Over the years, many blind manufacturers have tried to copy our process, without success. They found other ways to metallise fabric, however, to this day, no one has come close to SilverScreen metallisation for quality, durability and functionality.

Highest Level of Visual Quality

Visual comfort through light control, glare control & view through.

Highest Level of Thermal Quality

Temperature control – ambient temperature, radiant heat reduction, insulative properties.

Significant Energy Savings

Reduction in CO_2 emissions & reduction in capital costs for cooling and glazing.

EXPERIENCE SUPERIOR HEAT, GLARE & UV PROTECTION
WITHOUT LOSING THE VIEWS

SILVERSCREEN IS NOT A COST IT'S AN INVESTMENT

SilverScreen is the ultimate energy efficient solution, ideal for saving on heating and cooling costs. Here's why.

- During summer, SilverScreen's highly reflective metallised surface repels up to 85% of solar energy before it has a chance to turn into heat. This means room temperatures stay lower, saving you on cooling costs.
- In winter, the low E aluminium layer insulates the window, trapping warm air in the room, saving you on heating costs.
- SilverScreen can save approximately 20% of energy consumption in an air-conditioned building and about 10% in a non-air-conditioned building.
- SilverScreen metallisation is now available on fibreglass based 2x1 weave fabric for the very best results in terms of energy saving.
- It is also available on 2x2 basket weave fabric for a beautiful view to the outside world and on cradle-to-cradle polyester fabric.

WHY SILVERSCREEN METALLISATION IS UNIQUE

Unlike other blind manufacturers, who metallise by coating or sticking an aluminium film onto fabric, Verosol uses Nano type technology. We have devised a method by which we vaporise aluminium, so the particles bond and infuse into the fabric. Which means, the aluminium and fabric become one. Our process creates a product with remarkable results that no one else can match.

SilverScreen also has an unsurpassed track record. There is no other metal back solar control fabric in the world, that has been used as extensively. SilverScreen's effectiveness as a window covering that reduces heat and glare at the window have been proven throughout Australasia, North America and Europe.

Healthy Environment

Excellent colour rendering index. Fabric is anti-bacterial, anti-static & very low VOC emission.

Safe Environment

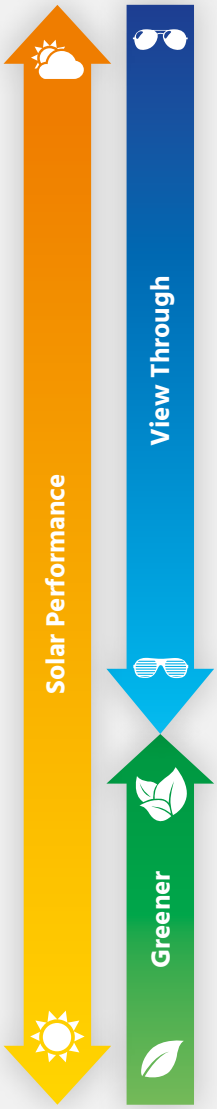
Fabrics provide daytime privacy, are flame retardant & carry Oeko-Tex Standard 100 certification.

Five Year Warranty

Get reassurance with our 5 year + warranty guaranteed.

OUR COLLECTIONS

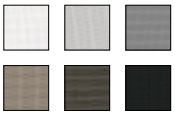
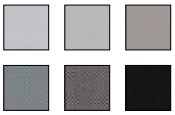
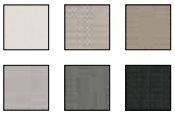
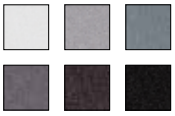
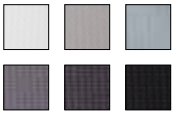
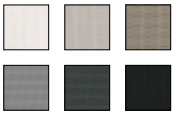
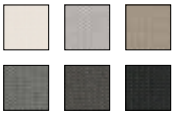
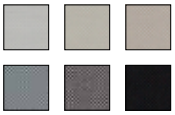
SilverScreen Range
Metallised Fabrics



RANGE	PERFORMANCE	BENEFITS
SilverScreen 202 Performance	85% Solar Reflectance 3% Solar Transmittance 12% Solar Absorptance 2% Openness Factor	Highest Solar Reflection Highest Protection Highest Energy Savings Highest Glare Reduction
SilverScreen 203 Performance	82% Solar Reflectance 4% Solar Transmittance 14% Solar Absorptance 3% Openness Factor	High Solar Reflection Best View Through Significant Glare Reduction
SilverScreen 205 Performance	77% Solar Reflectance 6% Solar Transmittance 17% Solar Absorptance 4% Openness Factor	Improved View Through Best Blend of Performance and View Significant Glare Reduction
SilverScreen 833 Clearview	79% Solar Reflectance 4% Solar Transmittance 17% Solar Absorptance 3% Openness Factor	180 Degree Viewing Angle Best Off Axis Vision Through PVC Free Significant Glare Reduction
SilverScreen 802 Enviro	77% Solar Reflectance 3% Solar Transmittance 20% Solar Absorptance 2% Openness Factor	Strong Performance Unbeatable Green Solution PVC Free CRADLE to CRADLE Certified Significant Glare Reduction
SilverScreen 103 Earth	62% Solar Reflectance 6% Solar Transmittance 32% Solar Absorptance 3% Openness Factor	Good Performance Great Value PVC Free Significant Glare Reduction

PROVEN OVER 50 YEARS		
SilverScreen Originals 816, 812, 878, 890	**PERFORMANCE**	Roller Blinds Pleated Blinds Curtain Fabrics Fire Retardant PVC Free
	44% to 70% Solar Reflectance	
	0-23% Openness Factor	

Naturals Range
Non Metallised Fabrics

RANGE	PERFORMANCE	COLOURS
231 Veroscreen G3	PVC Performance Screens	
123 Earth Screen	PVC Free Screens	
743 Haven	PVC Free Screens	
236 Satin	PVC Free Screens or Pleats	
815 Ultra	PVC Free Screens or Pleats	
850 Mirage	PVC Free Screens or Pleats	
737 Veropaque G3	Blockout Screens	
710 Aspect	Blockout Screens	
744 Haven	Blockout Screens	
793 Earth	Blockout	

CASE STUDY

LOCATION:
Barangaroo, NSW Australia

ARCHITECT:
Rogers Stirk Harbour & Partners and Lendlease

WINDOW COVERINGS:
SilverScreen Roller Blinds by Verosol

- **Screen type: SilverScreen 205 Performance**
- **Height: 168 metres**
- **Levels: 39**
- **Floor area: 99,656m^2**

BARANGAROO TOWER 3

Barangaroo Tower 3 is considered by many to be Australia's building of the decade. At 39 levels reaching 168 metres, Tower 3 provides the ultimate in flexible, modern workspaces.
The amazing glass facade required a sustainable solution for solar control and its impact on the temperature inside the building during the harsh Australian weather conditions.

THE BUILDING

Barangaroo Towers were designed by architectural firm Rogers Stirk Harbour & Partners and Lendlease, in 2010. Barangaroo is Australia's premier commercial hub for the Asia Pacific region, located in the heart of Sydney harbour. The first in Australia to set the new benchmark for sustainable building materials, Barangaroo Tower 3 had achieved the highest green star rating from the Green Building Council of Australia (CBCA).
'Typically, building projects require more than one round of assessment to achieve a Green Star rating'. However, Barangaroo Tower 3 was fortunate to receive this award on the first assessment at the International Tower Sydney (ITS) (Barangaroo South, 2017).

THE REQUIREMENT

Tough weather conditions such as the harsh Australian sun rays will affect this building, especially as it is 39 levels constructed with glass facade on all levels. This will pose a challenge regarding room temperature and energy efficiency.

THE SOLUTION

Tower 3 was awarded a 6 Star Green Star rating from the Green Building Council of Australia (GBCA). To comply with this initiative, Motorised Verosol SilverScreen 205 Performance blinds were introduced. Manufactured with a thermal and reflective Aluminium backing,
SilverScreen 205 Performance was specified due to its high solar reflectance achieving an impressive 76% - 78% outside reflection.
This makes it highly sustainable, flame retardant and very energy efficient.

"Typically, building projects require more than one round of assessment to achieve a Green Star rating. However, Barangaroo Tower 3 was fortunate to receive this award on the first assessment."

CASE STUDY

LOCATION:
Green Square, Sydney Australia

ARCHITECT:
Stewart Hollenstein / Builder: John Holland

WINDOW COVERINGS:
SilverScreen Roller Blinds by Verosol

- **Screen type: SilverScreen 202 Performance**
- **Sector: Public Library**
- **Certification: 5 Star Green Star**

GREEN SQUARE LIBRARY & PLAZA

THE BUILDING

Green Square Library - 3000 sq m of naturally-lit space. This 5 Star Green Star Building was designed by Architect Stewart Hollenstein and constructed by Builder John Holland for their client, the City of Sydney. With most of the development below ground level, the Glazed Tower and Pavilion are the landmark features of the development.

THE REQUIREMENT

The challenge with the extensive use of glass lay in making the buildings useable, not just visually appealing in the urban lansdcape. These glass constructions required multiple layers of heat and light control. Technologies including triple glazing, chilled beam cooling systems, intelligent ventilation and Verosol's SilverScreen roller blind fabrics were employed to make the public space user friendly. The result, 5 Star Green Star Public Building Certification.

THE SOLUTION

In the Greensquare Library development, Motorised SilverScreen 202 Performance roller blinds cut 85% of the heat and 97% of the glare. SilverScreen makes commercial spaces useable in a way that is unequalled by any other roller blind fabric. SilverScreen quite literally allows people to use spaces that would otherwise be impossibly hot and bright on sunny days. Furthermore, the integration of clever control technologies means the SilverScreen blinds are raised and lowered with automated precision.

What makes SilverScreen unique is its metal backing. The use of nano technology allows Verosol to produce a solar control fabric with a reflective metal backing. SilverScreen fabric is proven worldwide and unparalleled for performance, quality and appearance.

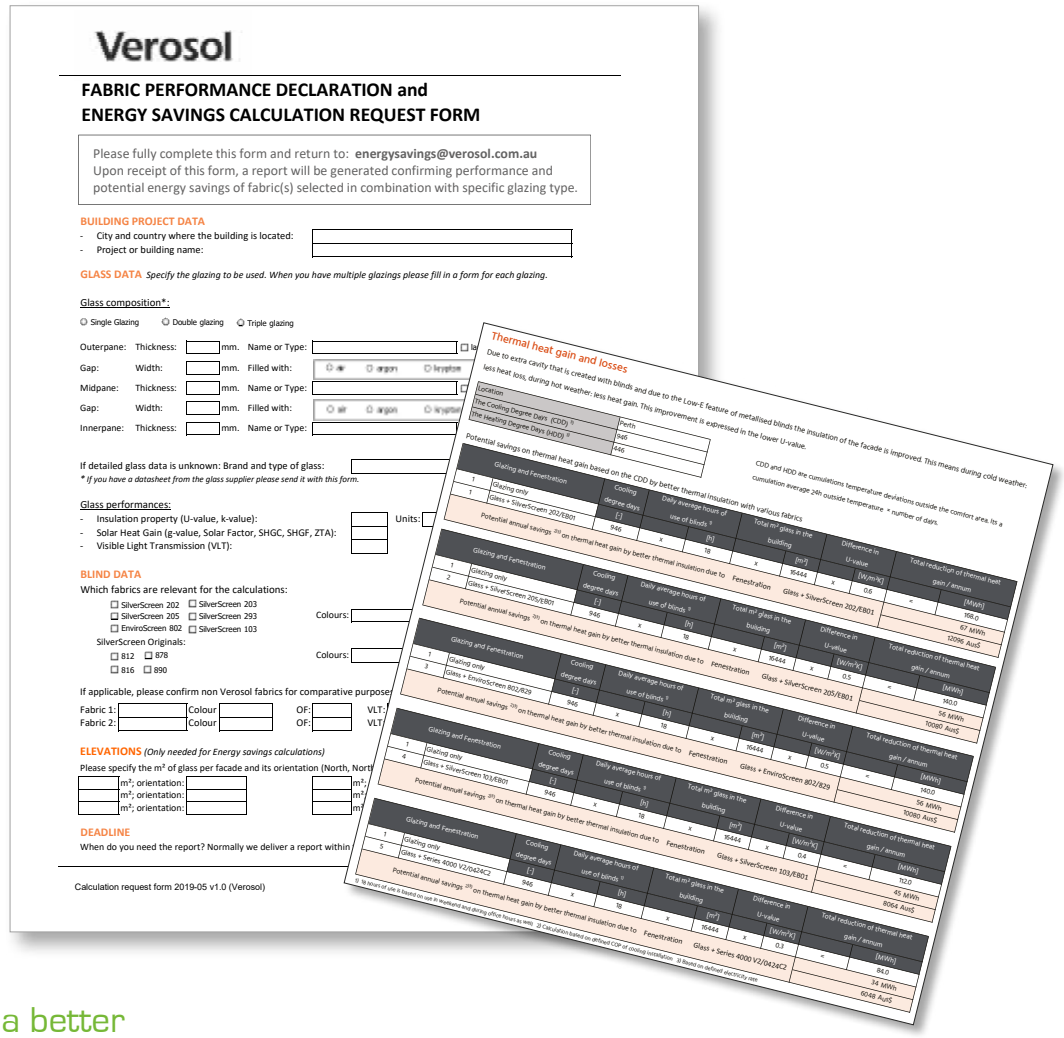
ENERGY SAVINGS

Green planet considerations is a priority for Verosol, at a time when global warming is in the hearts and minds of governments, businesses and individuals alike.

Verosol worldwide is committed to providing a product that will reduce the production of greenhouse gases.

Verosol's savings calculator demonstrates how the use of Verosol metal backed fabrics can prevent thousands of kilograms of CO2 being produced in air-conditioning running cost savings alone.

To estimate possible reduction in CO2 emissions and significant energy cost savings for your next project; **contact Verosol for a tailored energy saving calculation.**.



Verosol

FABRIC PERFORMANCE DECLARATION and ENERGY SAVINGS CALCULATION REQUEST FORM

Please fully complete this form and return to: **energysavings@verosol.com.au**
Upon receipt of this form, a report will be generated confirming performance and potential energy savings of fabric(s) selected in combination with specific glazing type.

BUILDING PROJECT DATA
- City and country where the building is located:
- Project or building name:

GLASS DATA *Specify the glazing to be used. When you have multiple glazings please fill in a form for each glazing.*

Glass composition*:

Single Glazing Double glazing Triple glazing

Outerpane: Thickness: mm. Name or Type:
Gap: Width: mm. Filled with:
Midpane: Thickness: mm. Name or Type:
Gap: Width: mm. Filled with:
Innerpane: Thickness: mm. Name or Type:

If detailed glass data is unknown: Brand and type of glass:
** If you have a datasheet from the glass supplier please send it with this form.*

Glass performances:
- Insulation property (U-value, k-value): Units:
- Solar Heat Gain (g-value, Solar Factor, SHGC, SHGF, ZTA):
- Visible Light Transmission (VLT):

BLIND DATA
Which fabrics are relevant for the calculations:

SilverScreen 202 SilverScreen 203
SilverScreen 205 SilverScreen 293 Colours:
EnviroScreen 802 SilverScreen 103
SilverScreen Originals:
812 878
816 890 Colours:

If applicable, please confirm non Verosol fabrics for comparative purpose

Fabric 1: Colour OF: VLT:
Fabric 2: Colour OF: VLT:

ELEVATIONS *(Only needed for Energy savings calculations)*
Please specify the m² of glass per facade and its orientation (North, Nort

m²; orientation:
m²; orientation:
m²; orientation:

DEADLINE
When do you need the report? Normally we deliver a report within

Calculation request form 2019-05 v1.0 (Verosol)

Thermal heat gain and losses

Due to extra cavity that is created with blinds and due to the Low-E feature of metallised blinds the insulation of the facade is improved. This means during cold weather: less heat loss, during hot weather: less heat gain. This improvement is expressed in the lower U-value.

CDD and HDD are cumulations temperature deviations outside the comfort area. Its a cumulation average 24h outside temperature * number of days.

creating a better environment

DESIGN MEETS PERFORMANCE
PART OF THE KVADRAT FAMILY

COMFORT

Verosol's collection offers unrivalled performance for comfort inside the building. Enjoy the benefits of daytime privacy without compromising the beautiful view outside.

Verosol's metallised fabrics eliminate glare issues in your building whilst also providing an easily manageable indoor climate with reduced need for heating and cooling.

The highly reflective metallised backing provides effective insulation to windows, significantly reducing heat loss in winter and heat gain in summer. The selective use of quality materials combinedwith Verosol's expertise in metallisation ensures the best insulation for your environment through all seasons of the year.

DURABILITY

As the inventor of metallised fabrics, Verosol has built a strong reputation for the durability of its fabrics. The quality materials and unique processes used to manufacture these fabrics result in an uncompromised end product. As well as providing comfort and insulation, Verosol fabrics provide significant energy savings by reducing the need for air conditioning and heating all year round.

The fabrics have excellent colour fastness properties, which resist fading and prolongs the life of your blinds. Harsh UV rays can cause significant damage to your furniture. However Verosol fabrics metallised with a thin layer of aluminium, offer unparalleled protection against these harmful rays, yet still allow natural light into the room.

COLLECTION

Verosol offers an extensive range of premium window coverings, with a solution to meet your specific needs.

All blinds are custom made and quality tested to ensure they provide you with optimal functionality and style for your interior. With a wide range of fabrics and systems to choose from, the options are endless.

AUTOMATION

COMPLETE CONTROL

Experience greater convenience and luxury in your home with Verosol's motorisation options for your blinds. Motorisation makes operating your blinds easy, eliminating any cords or chains. Have complete control of the light in a room with the touch of a button.

Motorisation is ideal for large or hard to reach windows. Verosol offers the latest technology in blind motorisation, with different options available to suit your home and lifestyle.

Home Automation Systems

Verosol offers a large range of motorisation and control solutions using the latest technology compatible with home automation and building management systems.

Remote Control Range

A range of remote control options provides easy programming, allowing you to manage individual blinds or a group of blinds simultaneously.

Wall Switch Range

Wall switches are practical for controlling the opening and closing of blinds. With a wireless option and a range of colours available, the wall switch is easy to install and will match any interior.

Sun Sensors

Automate the raising and lowering of your blinds according to the amount of sunlight in a room with a wireless sun sensor, easily mounted onto the inside of your window or window sill.

CHILD SAFETY

Cords and chains on blinds can be a hazard to children. Child safety is very important to Verosol, and that's why all Verosol blinds are installed with a child safety device. However with motorisation, you can have complete peace of mind when it comes to your child's safety, as it eliminates the need for any cords or chains.

WARRANTIES

QUALITY ASSURANCE

Our Blinds are manufactured in Australia, and engineered to perform in the harsh Australian climates, giving you window coverings that not only perform, but also last. Verosol continues to set industry benchmarks with our exclusive expertise in the unique metallisation process. Verosol is committed to providing our customers with the highest quality products in the market. This is achieved through stringent quality control processes where each finished product is 100% tested and inspected.

5 YEAR + WARRANTY

Verosol has a long tradition of manufacturing premium quality window furnishing across Australia and around the world. With our stringent quality control processes, Verosol is confident your purchase will perform at its best.

Verosol Blinds come with a five (5) year + nationwide back to base warranty across the entire range of products, covering component failure and manufacturing issues.

Note: Verosol Shutters comes with 5 years + warranty or more, depending on the Shutter range.

For more information on our 5 year + warranty, visit **verosol.com.au**

CERTIFICATION

1800 011 176 info@verosol.com.au verosol.com.au

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