

Criteria LEED

Vision by Verosol

Sustainability

# Verosol and LEED



# Verosol

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## New Constructions and Major Renovations v3 June 2009

### Sustainable Sites

#### Credit 8 Light Pollution Reduction (1 pt)

When internal lighting in a building is needed during night-time, a contribution to the reduction of night sky pollution can be achieved by closing the Verosol blinds.

### Energy and Atmosphere

#### Credit 1 Optimize Energy Performance (1-19 pts)

Verosol's savings calculator ([www.verosol-commercial.com/en/calculator.php](http://www.verosol-commercial.com/en/calculator.php)) can be used to calculate the energy savings in buildings with respect to the fenestration. The different parameters like glass and fabric types can be adjusted. Fabrics from Verosol will contribute positively to minimizing energy consumption.

### Indoor Environmental Quality

#### Credit 6.1 Controllability of Systems - Lighting (1 pt)

#### Credit 6.2 Controllability of Systems - Thermal Comfort (1 pt)

#### Credit 7.1 Thermal Comfort - Design (1 pt)

#### Credit 8.1 Daylight & Views - Daylight 75% of Spaces (1 pt)

#### Credit 8.2 Daylight & Views - Views 90% of Spaces (1 pt)

By using individual operated twin-blinds, with a transparent and non-transparent fabric, one creates an optimal solution. Individuals in the room are able to position the blinds to their personal needs at that moment. The highly reflective metallized backing of both the transparent as non-transparent fabric will provide the maximum thermal comfort possible. It minimises the direct and indirect radiant heat. Blinds can meet the personal demands of the occupants: personal design, by using different transparencies of fabrics and even choosing their own colour, without influencing the uniform look at the outside. The use of transparent, still highly reflective fabrics, creates an outside view, without having glare problems. Verosol's Originals, EnviroScreen and SilverScreen are all Greenguard certified fabrics and contribute positively to the indoor air quality in the rooms (low emitting fabrics).

### Innovation & Design Process

#### Credit 1 Innovation in Design (1-5 pts)

It is possible to show the differences in performances of the fabrics from Verosol compared to similar fabric from others in the area of energy savings and quantifiable environmental benefits ([www.verosol-commercial.com/en/calculator.php](http://www.verosol-commercial.com/en/calculator.php)).



Minimising energy costs and CO<sub>2</sub> emissions  
Great view through



Optimal climate control  
Great view through



Glare control and individual operation  
Great view through



Glare control and optimal working climate  
Great view through



Minimising lighting levels, glare control  
Great view through

# Verosol and LEED

## Existing Buildings: Operations & Maintenance January 2008

### Sustainable Sites

#### Credit 8 Light Pollution Reduction (1 pt)

When internal lighting in a building is needed during night-time, a contribution to the reduction of night sky pollution can be achieved by closing the Verosol blinds.

### Energy and Atmosphere

#### Credit 1 Optimize Energy Performance (2-15 pts)

#### Credit 5 Refrigerant Management (1 pt)

#### Credit 6 Emissions Reduction Reporting (1 pt)

Fabrics from Verosol will contribute positively to minimizing energy costs. The metallised solar shades from Verosol help to reduce heat loss in winter. In summer Verosol solar shades keep out unwanted solar heat. This brings an attractive reduction in both heating and cooling. Verosol products can contribute significantly to reducing CO<sub>2</sub> emissions.

### Materials & Resources

#### Credit 3 Sustainable Purchasing - Facility Alterations and Additions (1 pt)

Verosol Originals, SilverScreen and EnviroScreen are produced in an ISO 14001 certified environment and are certified according to Indoor Air Quality Greenguard Program (incl. Children and Schools application). So fabrics from Verosol will make a strong contribution to the IAQ management plan of a building.

### Indoor Environmental Quality

#### Credit 1.1 IAQ Best Management Practices (1 pt)

#### Credit 2.1 Occupant Comfort - Occupant Survey (1 pt)

#### Credit 2.2 Occupant Comfort - Occupant Controlled Lighting (1 pt)

#### Credit 2.3 Occupant Comfort - Thermal Comfort Monitoring (1 pt)

#### Credit 2.4 Occupant Comfort - Daylight&Views -50% Daylight/45% Views (1 pt)

#### Credit 2.5 Occupant Comfort - Daylight&Views -75% Daylight/90% Views (1 pt)

Blinds can meet the personal demands of the occupants: personal design, by using different transparencies of fabrics and even choosing their own colour, without influencing the uniform look at the outside. Verosol Originals, EnviroScreen and SilverScreen are all Greenguard certified fabrics and contribute positively to the indoor air quality in the rooms (low emitting fabrics). The fabrics from Verosol will contribute to thermal comfort, glare control and lighting levels.

### Innovation in Operations:

#### Credit 1.1 - 1.4 Innovation in Design (1-4 pts)

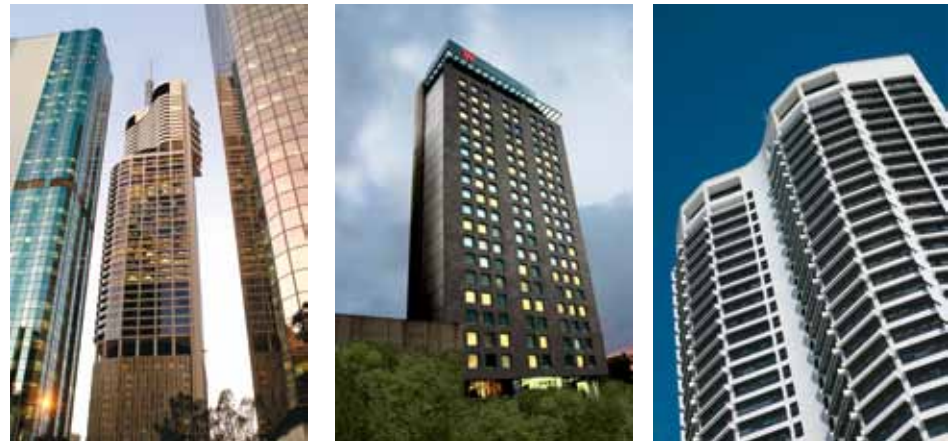
It is possible to show the differences in performances of the fabrics from Verosol compared to similar fabric from others in the area of energy savings and quantifiable environmental benefits ([www.verosol-commercial.com/en/calculator.php](http://www.verosol-commercial.com/en/calculator.php)).



## Vision by Verosol

Verosol was founded in 1965 by Cornelis Verolme, a well-known shipbuilder with a vision. He developed a unique process whereby a thin layer of aluminium is applied on a fabric. Used in interior sunblinds, the fabric reflects heat and light from the sun while retaining the view outside. A lower energy bill and an optimum living and working environment are the tangible results.

Verosol is the ultimate specialist in customised solutions for all conceivable applications. From office buildings to sport halls, from hospitals to schools, from museums to houses. Anywhere where light control, climate control and energy control are important is Verosol able to create a perfect solution. Contemporary Verosol solar control is available in almost any shape and colour and is very easy to operate.



VRL-2008  
GECA 28-2006  
Furniture and Fittings

## Vision on Sustainability

Verosol has always remained true to the vision of Cornelis Verolme on a more sustainable society and continues its efforts to save energy and improve living comfort. Even in the business operations of Verosol sustainability is self-evident. Verosol is economical with energy and employs very clean, safe and modern production processes. At the end of their long life cycle all Verosol products are safe to re-use of process. The production process of Verosol is ISO 14001 certified.

In the field of sustainability, Verosol has taken various big steps. Verosol products save more CO<sub>2</sub> than is created by the company. Verosol realises however that things can always be improved. Striving for sustainability is a continuous process and Verosol is always open to new ideas. Verosol continuously invests in the application of the cleanest and most efficient modern technologies.



For more information about technical data, energy savings and worldwide distribution:  
[www.verosol.com](http://www.verosol.com)