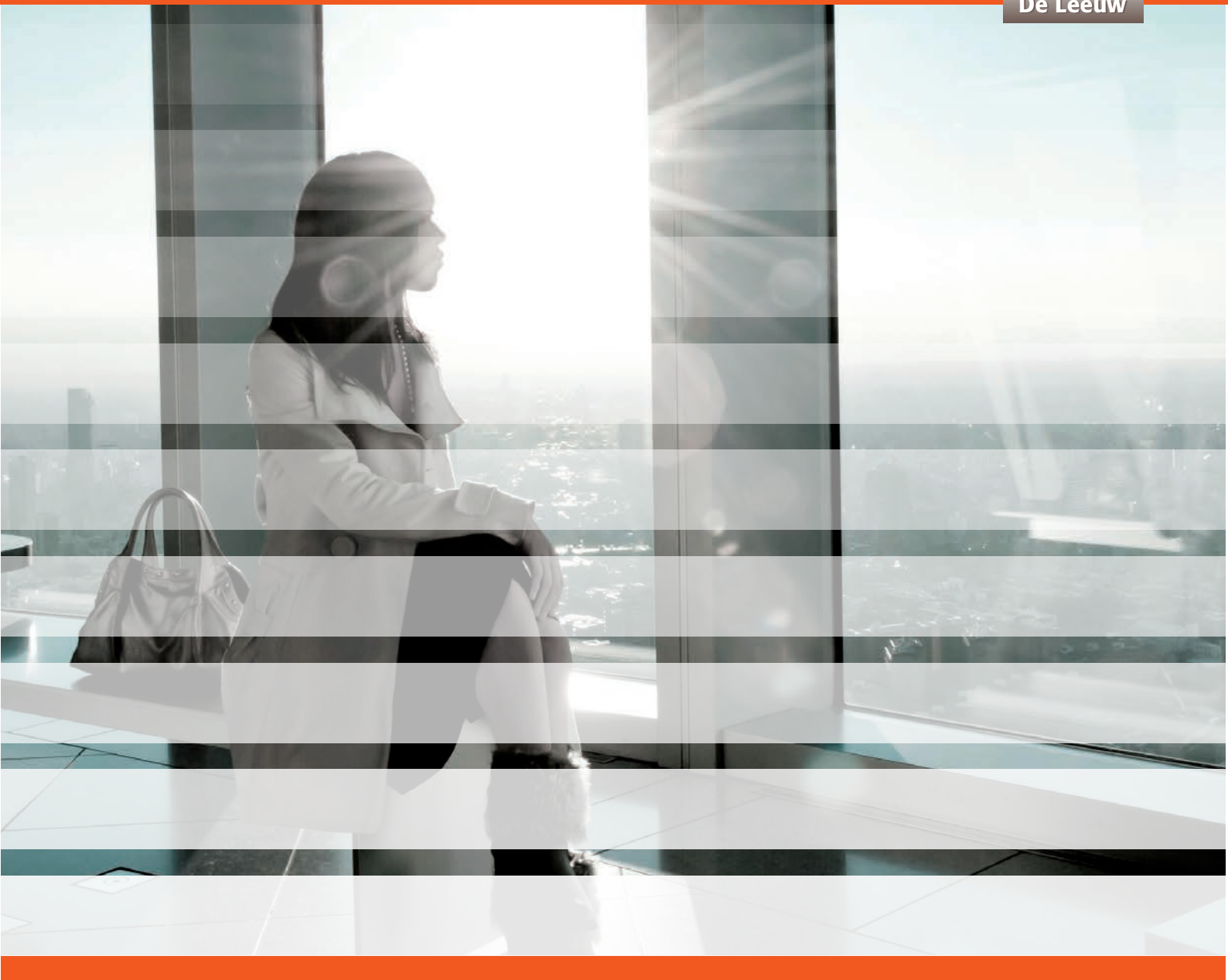


Shading Britain since 1983



De Leeuw



Reflex-Rol MAXI Systems

Solar & Glare Control Shading Systems
from De Leeuw



Reflex-Rol MAXI : Advanced Blind Systems



LEADING THE WAY IN INTELLIGENT FABRICS

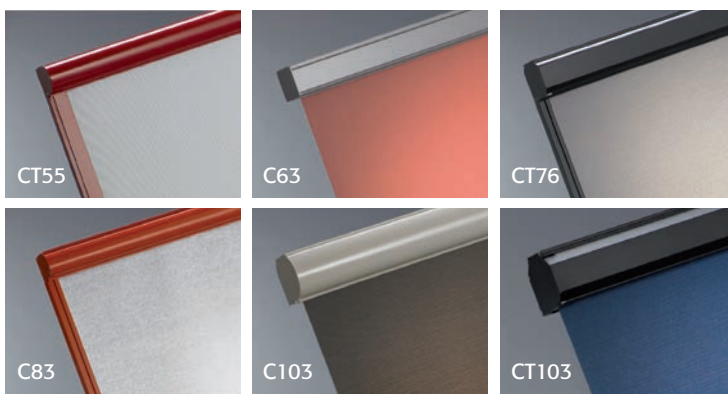
We have developed a technically advanced range of products, suitable for both indoor and outdoor applications, which offer neat, discrete systems, even for large blinds.



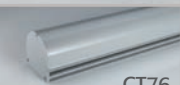




MAXI systems love Mermet fabrics

Fitted with Mermet fabrics, our MAXI blind systems offer safe and environmentally friendly shading solutions to building. Mermet fabrics are fire resistant (tested to BS 476 Pt6 Class 0), extremely durable and available in an extensive range of colours.



The MAXI Range



Cassette Type	Cassette Dimensions (mm)	Maximum Blind size (indication only)	Chain operated	Crank handle operated	Motorised
 CT55	L 63 x H 59	5 m ²	☀	☀	–
 C63	L 61 x H 67	8 m ²	☀	☀	–
 CT76	L 76 x H 80	12 m ²	☀	☀	☀
 C83	L 79 x H 88	15 m ²	☀	☀	☀
 C103	L 104 x H 116	20 m ²	☀	☀	☀
 CT103	L 107 x H 116	20 m ²	☀	☀	☀
 Without cassette	L 70 x H 70 L 90 x H 90	12 m ²	–	☀	☀

Structure

- Made of aluminium alloy 6460 T4
- With or without cassette (front removable to facilitate maintenance)
- Installation to the ceiling, face, or fixed to the side-guides without mechanical fixing to the structure of the building

Side Guides

Side guides are available in three different sizes to suit particular requirements (larger ones are needed to provide blackout effects)

Operation

- Manual
 - Chain (plastic or metal)
 - Winch/crank handle (also removable to meet child-safety instructions)
- Motorised, remote controlled

Innovative solutions

Horizontal blind

(For indoor installation only)

The horizontal blind is designed to screen medium-sized (0.5 to 6m²) light sources. Operated by a wall mounted switch or radio-controlled tubular motor (or via a mobile crank for sizes not exceeding 1200mm in length and 1400mm in width).

This double cassetted system incorporates a tension spring inside the second winding tube, making it possible to keep the fabric stretched in any position. In order to facilitate installation, this blind is fitted with pre-assembled side-guides.

The fabric is kept inside the side guides by means of stainless steel stiffeners, inserted into sheaths every 800mm and designed to maintain tension in the blind.



Veranda blind

(For indoor and outdoor installation)

This blind is specially developed for outdoor applications such as verandas and pergolas. Fabric tension is maintained by a system of Kevlar cables, located in the side guides and connected to a pre-tensioned spring in the loading bar.



Type of application:

Horizontal, vertical, inclined.
Possibility of coupling two modules to a single motor.

Surface:

- Max. 16m² per module

Veranda colours:

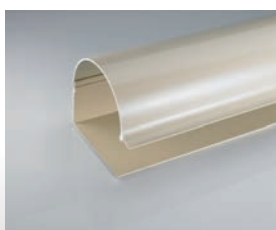
- All RAL colours

Standard motor:

- Becker wired motor

Options:

- Becker radio remote control
- Wind and/or sun sensor
- Complete RAL colour range on request



Cassette dimensions:
L 143 x H 161 mm



Side guides dimensions:
L 65 x H 65 mm



Bottom bar element
dimensions: L 57 x H 92 mm



Technical characteristics & properties

- **Material**
 - aluminium alloy, 6460 T4
- **Standard colours**
 - white (9016)
 - other colours available on request
- **Principal operation elements**
 - chain
 - crank handle
 - 220V or 24V motor
- **Mermet screen & blackout fabrics**
 - flammability rating
BS 476 Pt6 Class 0 standards
- **Aesthetic design**
 - side guides and cassettes fitted without visible screws
- **Improved system reliability**
 - minimal number of components





Did you know?

- Buildings account for some 25% of the annual total of CO₂ emissions and for 45% of consumed energy
- Energy performance regulations are now in place in Europe and the UK to try to reduce current consumption levels
- Technical solar blinds have become an important consideration in energy conservation in buildings, being both thermally protective and thermally insulating.

The science behind solar blinds

Solar radiation is always partially transmitted through, absorbed and reflected by the fabric of a blind. The measurable parameters are:

T_s Solar transmittance: proportion of solar energy transmitted through the fabric
– a low percentage means the fabric performs well at reducing solar energy

R_s Solar reflectance: proportion of solar radiation reflected by the fabric
– a high percentage means the fabric performs well at reflecting solar energy

A_s Solar absorptance: proportion of solar radiation absorbed by the fabric
– a low percentage means the fabric absorbs little solar energy

The sum of all three equals one hundred per cent of the solar energy impacting the blind: **T_s + R_s + A_s = 100% impacting solar energy**

In addition, **g_{tot}** is defined as the **Total solar factor**, a measure of the total solar energy which actually penetrates into a room through the blind and glazing – a low value means good thermal performance.

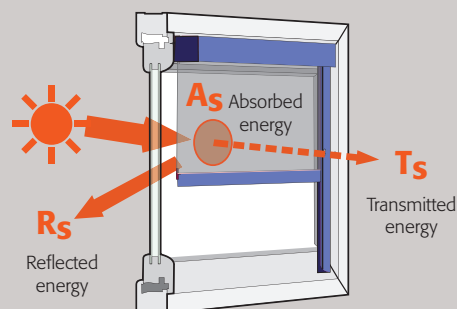
Other measured parameters relevant to the performance of a sunblind are:

OF Openness Factor: relative area of the openings in the fabric (holes)
– considered as independent of the colour

T_v Visible light transmittance: total percentage of light radiated through the fabric over a wavelength of 380 to 780 nm (the visible spectrum)

R_v Visible light reflectance: proportion of visible spectrum reflected by the fabric

T_{dif} Diffuse transmission factor: a correlation of two factors above: **T_{dif} = T_v – OF**
Used to determine glare and shape recognition (outward visibility/night privacy)



Fact: Up to **70%** of solar energy can be reflected, whilst controlling visible light and maintaining a clear outward view, depending on the type of fabric used *

* Accredited laboratory data reports from Sonnergy of Oxford available on request

De Leeuw Ltd has been a leading provider of technical and practical solutions to glare and heat problems for over 30 years.

Reflex-Rol MAXI Systems, in combination with Mermet fabrics, provide a technically advanced, elegant solution to solar heat and glare control, ideal for virtually any application due to the functionality of the systems and to the extensive range of fabric colours and textures available.

For technical details and advice, fabric samples or any other enquiry, please contact us on:

T: 01989 750005 E: info@deleeuw-ltd.co.uk



De Leeuw

De Leeuw Ltd., incorporating Reflex-Rol U.K. and Mermet U.K. are associate members of ES-SO



www.es-so.com



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