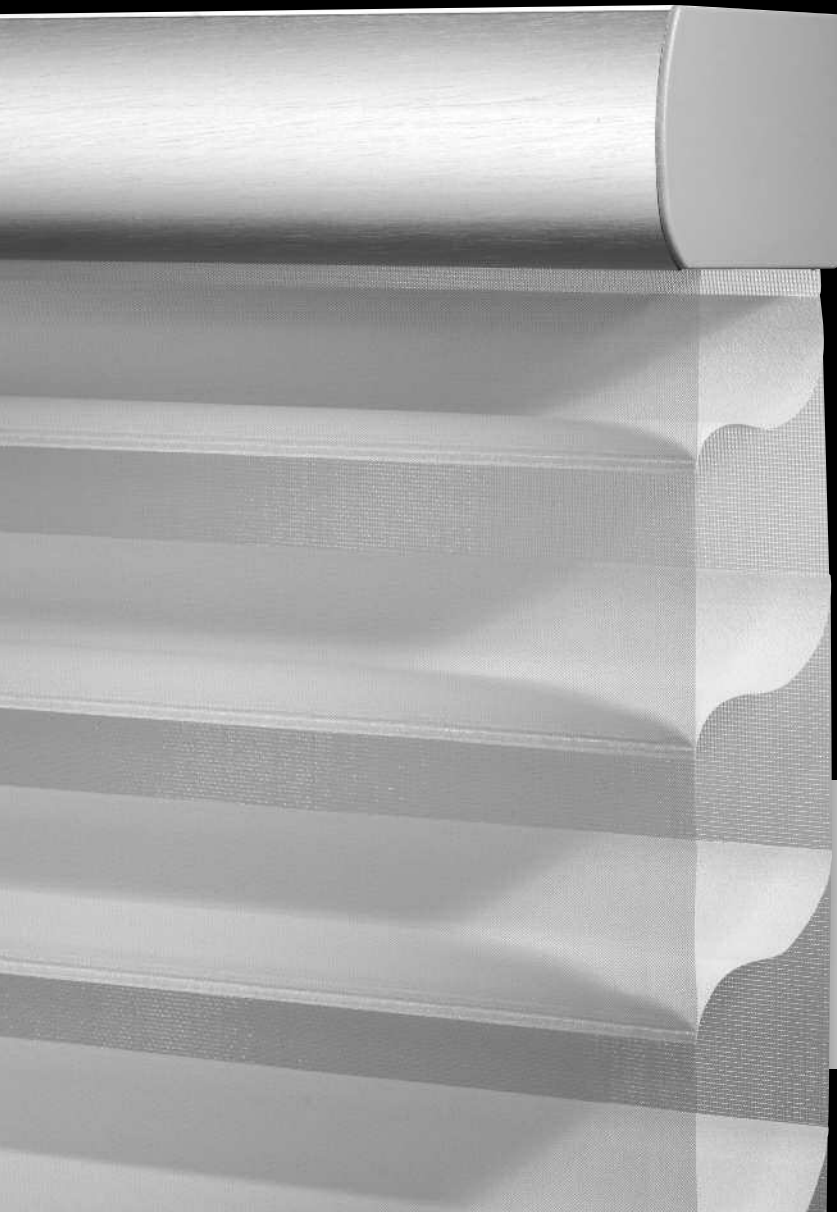


Silhouette® Shades

HunterDouglas® Silhouette® Shades are unique and extremely versatile window shades; soft as silk, elegant as a curtain and practical as a venetian blind.



HunterDouglas

WINDOW COVERINGS



Silhouette® Shades

Gentle translucency for optimal light
and heat control

DESIGN

HunterDouglas® Silhouette® Shades are the softest, most transparent and versatile window covering ever created. It combines the best features of curtains and blinds in one unique design. The soft fabric vanes are suspended between two sheer facings.

EASY INSTALLATION

The Silhouette® Shades hardware systems have been designed to offer easy mounting. The Silhouette® Shades can be installed on face, in recess of the window or on a wall.

FUNCTIONALITY & COMFORT

The soft floating vanes controls the light intensity without losing the natural beauty of sunlight. Completely open, Silhouette® Shades provide an unobstructed view outside. The vanes can be tilted to create a warm glow of softly diffused light. Closed, they provide privacy, protection and prevent mirror effects and loss of contrast.



ENERGY & LIGHT

HunterDouglas® Silhouette® Shades are designed to improve indoor environmental quality and conserve energy. These systems help create built environments that are comfortable, healthy, productive, and sustainable. Our engineering and production processes minimize embodied environmental impact while meeting the highest standards for commercial, hospitality, industrial, institutional, and commercial applications. In order to obtain the optimal shading performance for a building and its occupants we developed compute simulation and calculation tools. Our project support team can analyze, visualize and optimize Window Covering Solutions with the HunterDouglas® Energy and Light Tool.

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Innovative Products Make Innovative Projects



HunterDouglas

Silhouette® Shades Originale

SYSTEM SIZES AND DIMENSIONS

The Silhouette Originale is available in 3 different vane sizes in different colors.

HEAD BOX

Aluminium alloy extruded profile. The cassette conceals working mechanism rotary-clutch that raises, lowers and tilts the shade. Contains and protects shading fabric when fully raised.

Dimensions head box

- Standard size: 58 x 72 mm (50 mm wide vane)
- Oversized size: 62 x 81 mm (75 mm wide vane)
- XL size: 84 x 92 mm (100 mm wide vane)

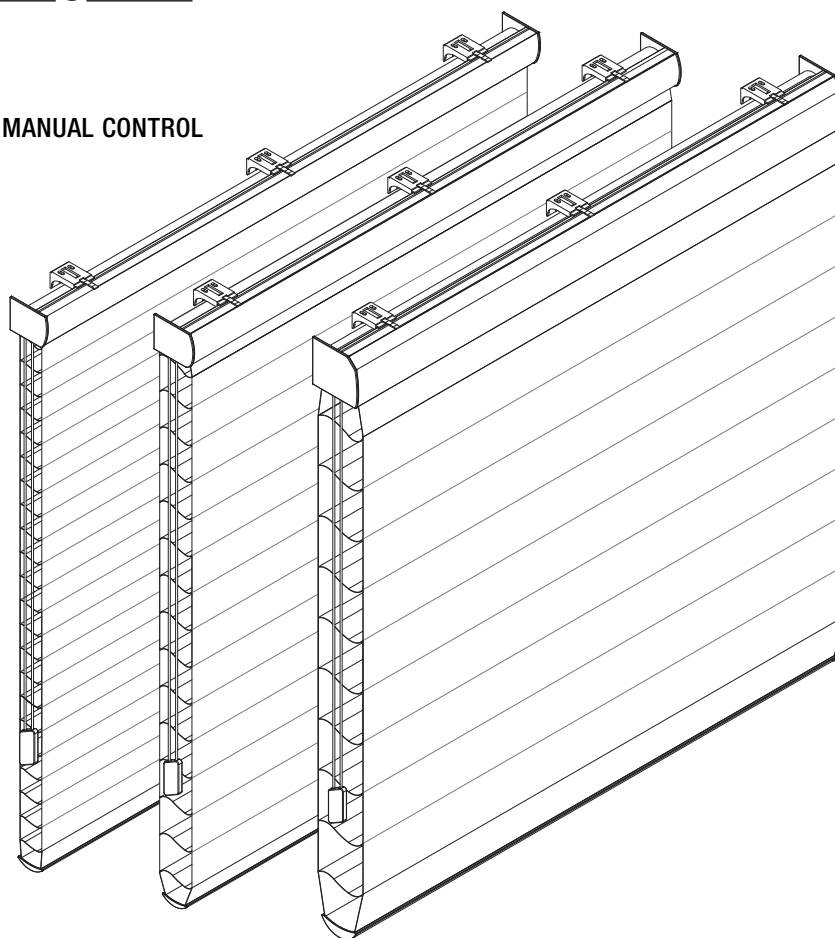
Colour head box

Powder coated, colour coordinated with the fabric.

Tube dimensions

Aluminium alloy extruded profile, with a diameter of 34 mm.

MANUAL CONTROL



Silhouette® Shades

BOTTOM RAIL

Colour bottom rail

Powder coated, colour coordinated with the fabric

Dimensions bottom rail

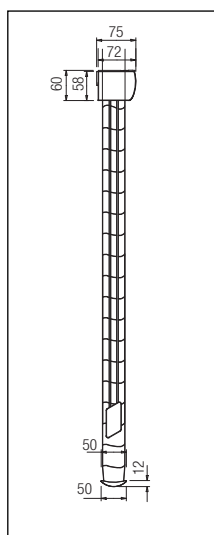
- 50 mm (50 mm and 75 mm vanes)
- 65 mm (100 mm vane)

FABRIC DESCRIPTION

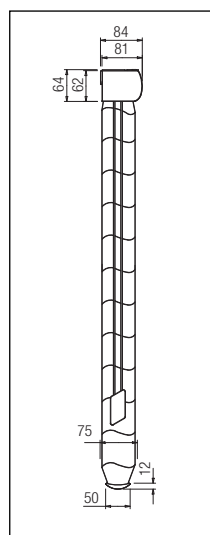
100% woven anti static polyester vanes, facings between 2 sheer layers to reduce the glare (50, 75, 100 mm).

Sheer layers: 100% knit polyester, selection in different colours.

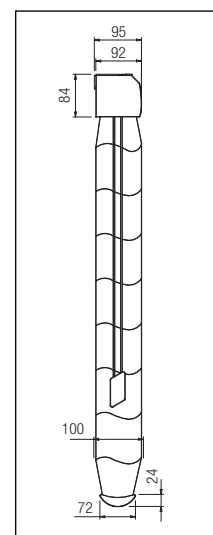
All plastic parts are colour coordinated.



Standard size headrail



Oversized headrail



XL size

MAXIMUM DIMENSIONS SILHOUETTE® SHADES ORIGINALE

| System | Width | Height | Surface m ² |
|------------------------|---------|---------|------------------------|
| Standard size headrail | 2400 mm | 2400 mm | 4.3 m ² |
| Oversized headrail | 2400 mm | 3000 mm | 4.3 m ² |
| XL size | 2850 mm | 3000 mm | 8.4 m ² |

Silhouette® Shades Originale

IMPORTANCE OF CORRECT HEIGHT MEASUREMENT

The bottom rail pivots when the vanes are opened and closed. Proper height measurement is critical in applications where the shade closes just above a window sill or floor. If the shade is too long and the bottom rail will rest on the sill or floor when it is fully lowered, the rail cannot pivot freely and the vanes cannot be opened properly.

OPERATION

Manual operated

Manual shades are operated by a continuous cord loop. To open the Silhouette® Shades from fully raised position, you need to pull down on the rear. After it is fully lowered, you need to continue to pull down the cord. This pivots the bottom rail and opens the fabric vanes.

When the vanes are wide open, the limit stops in the headrail and prevents further cord movement in that direction. With fabric vanes wide open and pulling down on the front half of the cord loop the vanes first closes and then raises the shade.

When the shade is fully raised, the limit and the cord movement stops again to prevent the bottom rail from being retracted too far into the headrail.

Motorized operated

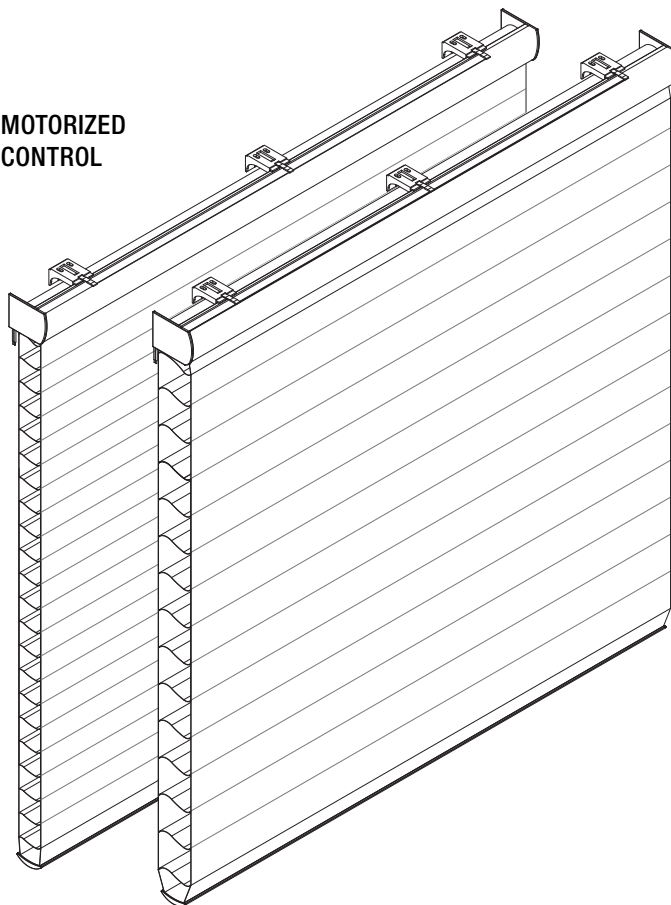
Option 1:

- 24V motor, AC/DC power supply
- Remote control / switch control / infra red eye

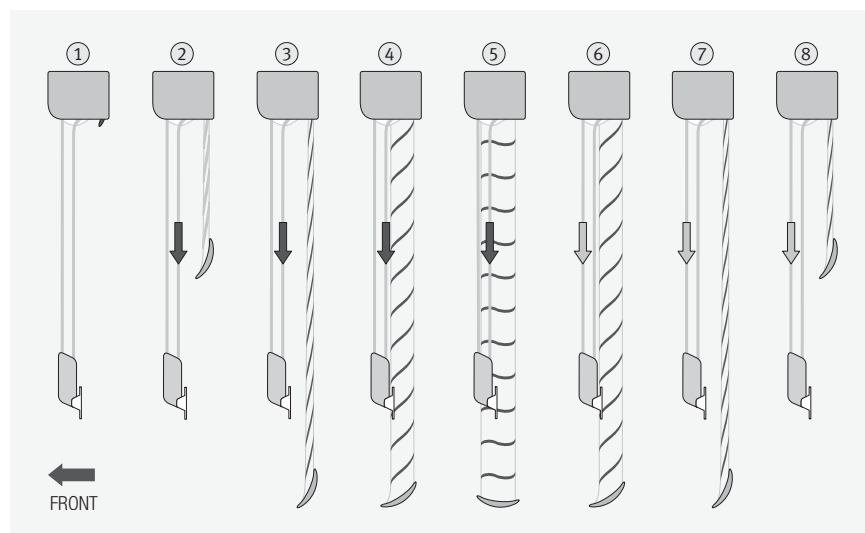
Option 2:

- 24V motor, PowerRise™ battery pack (no cables)
- Remote control / infra red eye

MOTORIZED CONTROL



Silhouette® Shades



Standard Operation

LIGHT AND HEAT CONTROL; TRANSMISSION VALUES

| Silhouette® Originale | Transmission | Reflection | Absorption | UV Reduction |
|-----------------------|--------------|------------|------------|--------------|
| Vaness open | 71% | 22% | 7% | 63% |
| Vaness closed | 34% | 39% | 27% | 98% |

Indoor Environmental Quality & Productivity

PRODUCTIVITY

Energy saving strategies and natural resources like daylight, can create a comfortable and productive environment for occupants. Smart, sustainable design that provides good indoor environmental quality is a proven and profitable investment.

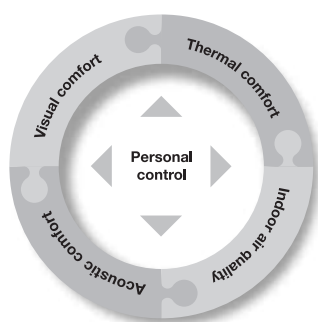
Seemingly small increases of as little as 1% in productivity could result in a much higher payback than the reduced cost of energy.

COMFORT

Comfort can be described as 'the state of mind that expresses satisfaction with the surrounding environment'.

Indoor environmental quality has essentially four dimensions:

1. Thermal comfort;
2. Visual comfort;
3. Acoustic comfort;
4. Indoor air quality.



It is an accepted fact that people prefer to experience daylight through visual contact with the outside world. This is therefore, generally recognized as an important factor in influencing people's positive emotional state.

Situations that cause visual discomfort can frequently arise. The light, glare or reflection levels are just too bright and contrasts too large for optimal working conditions.

Workspaces which are comfortable, naturally lit and allow occupants to connect with outdoor space can improve productivity and reduce absenteeism. Research on the relationship between day lighting and productivity shows that the use of daylight without glare resulted in productivity gains in the order of 4%. To fully optimise the benefits of daylight, control systems can be integrated in the sun control solution.

SUSTAINABILITY & INDOOR ENVIRONMENTAL QUALITY

The environmental footprint of a building includes such factors as the use of energy, water, materials and resources. HunterDouglas® Sun Control Systems and Window Covering products can play an excellent role in reducing the environmental footprint, whilst at the same time enhancing the thermal and visual dimensions of indoor environmental quality.



Energy and Light Tool

The function of Window Coverings is to provide visual comfort and heat control. The primary function of interior window coverings is to reduce glare levels and diffusing daylight. The primary function of External Window Coverings is heat control.

THERMAL COMFORT

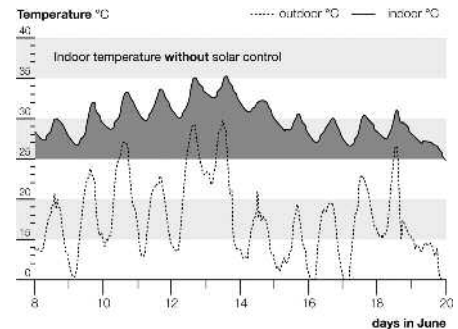
External Window Coverings will prevent excessive solar heat gain and reduce the need for cooling in the summer. Moreover, it will also reduce - if not eliminate - the high capacity of cooling equipment needed, resulting in a reduction in the initial investment cost.

In colder climates, External Window Coverings will enable the use of solar energy to help heat the building in winter. This is often overlooked when solar control glass is selected for heat control.

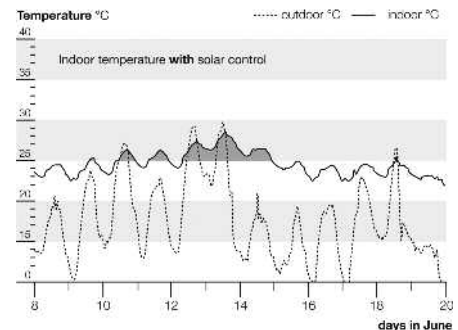
Thermal comfort at a minimal environmental impact calls for a careful matching of glazing, Sun Control and HVAC equipment.

The Hunter Douglas Energy Tool helps finding an optimum solution by quantifying the effects of various External Window Coverings.

The pay-off will be reduced energy costs and often reduced investment cost, and on top of that: reduced greenhouse gas emission during the operation phase of the building.



Indoor and outdoor temperature without External Window Covering



Indoor and outdoor temperature with External Window Covering

VISUAL COMFORT

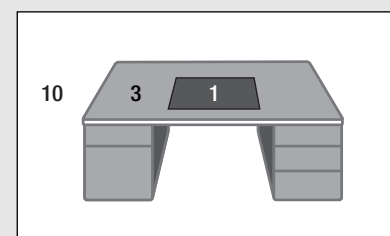
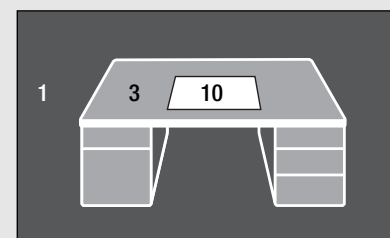
Interior Window Coverings enable the use of free renewable daylight to the maximum extent, so significantly reducing the need for artificial lighting and avoiding the associated cooling loads.

The accepted factor in creating visual comfort states that the contrast within the field of view should not exceed a factor of 10. The contrast between the central visual task and its direct surroundings should not exceed a factor of 3.

When designing an office space, questions often arise around what measures should be considered to guarantee the right level of visual comfort?

The Hunter Douglas Light Tool makes the assessment of visual comfort tangible by calculating luminance levels for a model office with and without window coverings. The amount and type of glass, the orientation of the façade, the geographical location, weather, season and time of day are all taken into account before recommendations are made.

The Light Tool helps client's assess which window covering provides the aesthetic and performance levels needed to create visual comfort for their particular project.

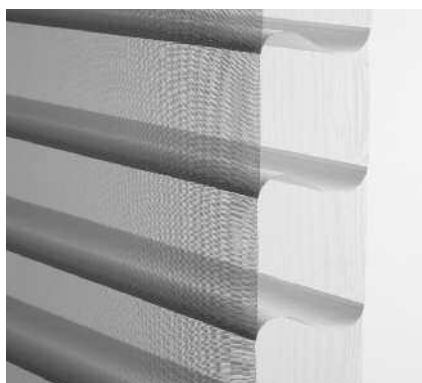
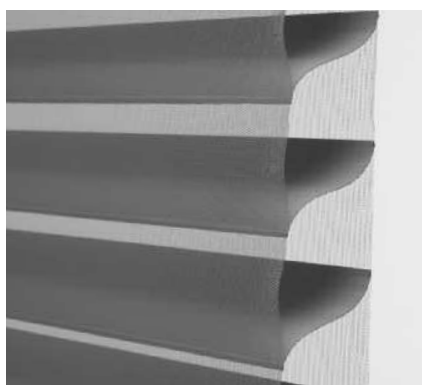
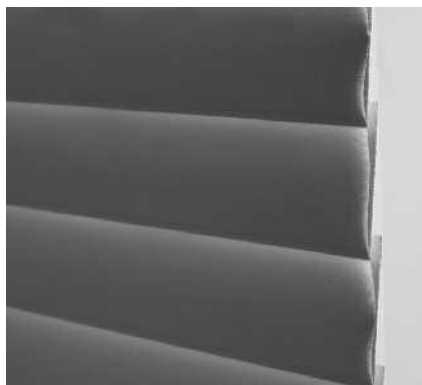


Contrast factor 1:3:10

Light Tool calculations are based on Radiance (Lawrence Berkeley Laboratories). The scene model consists of approximately 20,000 polygons. Colours and reflection values were measured in an actual model office.

Impressions

Application:
Hospitality, Corporate/Commercial, Retail,
Residential, Public spaces



Impressions

Application: Board room office building





HUNTER DOUGLAS ARCHITECTURAL PRODUCTS

Over 40 years, Hunter Douglas has been dedicated to innovation. As the field of Sun Control grows, we pride ourselves on leading the way as pioneers in the area.

We're working alongside architects and designers throughout the globe, developing new, innovative methods of managing heat, light and energy. We've committed ourselves to crafting products that meet the highest standards of materials, construction and performance because we believe that you need the right tools to create projects that inspire.

Innovative Products Make Innovative Projects



Promoting sustainable
forest management
www.pefc.org

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ARCHITECTURAL SERVICES

We support our business partners with a wide range of technical consulting and support services for architects, developers and installers. We assist architects and developers with recommendations regarding materials, shapes and dimensions, colours and finishes. We also help creating design proposals, visualisations and mounting drawings. Our services to installers range from providing detailed installation drawings and instructions to training installers and advising on the building site.

HunterDouglas

WINDOW COVERINGS



Learn More

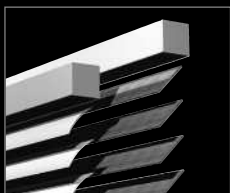
■ Contact our Sales Office

■ www.hunterdouglascontract.com

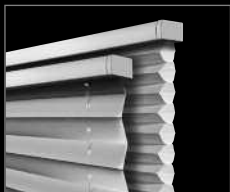
Roller Blinds



Venetian & Wood Blinds



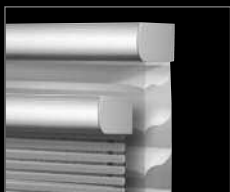
Plissé & Duette® Shades



Vertical Venetian Blinds



Facette® & Silhouette® Shades



External Venetian Blinds



External Roller Blinds



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Bulgaria
Croatia / Slovenia
Czechia
Denmark
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Greece
Hungary
Ireland
Italy
Kazakhstan
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FAÇADES