



HunterDouglas

WINDOW COVERINGS



HunterDouglas Window Coverings

Innovative Products Make Innovative Projects

Hunter Douglas is the world market leader in daylight regulation and solar heat control solutions with window covering and architectural products. We're dedicated to continually improving, broadening and enhancing our portfolio by developing innovative proprietary products. We offer an extensive range of interior and exterior solutions for architects and engineers, including Window Coverings, Sun Control Systems, Ceiling Systems and Façade Systems

Above : World Port Center, Rotterdam, the Netherlands
Architect: Foster and Partners, London
Product : Venetian Blinds



Cover : World Port Center, Rotterdam, the Netherlands
Architect: Foster and Partners, London
Product : Venetian Blinds

DESIGN, FUNCTIONALITY & COMFORT 2

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Design, Functionality and Comfort

Our Window Covering and Sun Control products come under the general term ‘solar shading’, which means that they allow control of the amount of heat and light emitted by the sun. That is to the benefit of comfort and energy consumption, because Hunter Douglas solar shading products keep excessive heat out in the summer and gently filter the abundant sunlight, while optimizing the use of the inexhaustible source of the free, renewable energy that is natural daylight.

As the world market leader in Window Coverings and Sun Control solutions, Hunter Douglas provides architects the knowledge and expertise to select the best heat and light control systems for each building, enhancing the façade while providing highly effective sun protection.

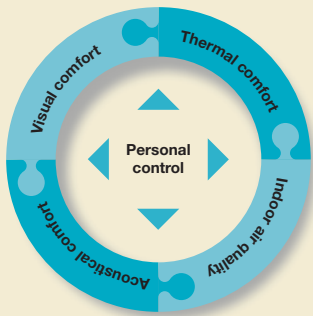
DESIGN

Our Window Covering Systems are engineered for all types of windows. They are operated by hand or motorized, or will be fully automated and controlled by sensors for light, temperature and wind, depending on the application. A wide range of system principles (Venetian Blinds, Roller Blinds, Plissé Shades, Vertical Blinds etc.) and materials (aluminium, wood, fabrics) are available, as well as a variety of shapes, sizes and finishes.

FUNCTIONALITY

A good external sun control system (Vertical Roller Blind, Venetian Blind) will reduce the indoor temperature considerably and therefore eliminate or reduce the need for artificial cooling. Our interior systems are especially effective for insuring good visual comfort conditions: controlled amount of light and pleasant contrast conditions, while making optimum use of free, natural daylight.

Hunter Douglas has software packages allowing the calculation of these functional results (indoor temperatures, energy demand, light and contrast conditions) for any particular case.



Elements of Indoor Environmental Quality

COMFORT

Modern buildings are so well insulated that they have only little need for heating. The internal heat gains have increased (PC's, printers and copiers) and that's why keeping a building cool in summer conditions becomes a greater problem than heating it in winter time. The heat gain caused by the sun then creates a need for vast cooling capacities to ensure the comfort of a building's occupants.

‘Comfort’ includes at least four elements: the right temperature (thermal comfort), good light and contrast conditions and view to the outside (visual comfort), no noise nuisance (acoustical comfort) and good indoor air quality. The building's façade has a crucial impact on these parameters. Hunter Douglas Window Covering products help architects control thermal and visual comfort, while Hunter Douglas Ceilings will enhance acoustical comfort. All of these elements are to the benefit of comfort, but also of a healthy and productive environment for the occupants of the building.



Exterior Window Covering Systems

MADE-TO-MEASURE CONTROL OF THE HEAT AND LIGHT OF THE SUN

For optimum performance in Sun Control, external products are the best: they stop the undesired solar energy before it enters the building, avoiding the 'greenhouse effect' that so often creates discomfort. Hunter Douglas offers a complete range of products, to suit every type of building, every situation and every style. In this Guide, we will only consider the mobile systems: blinds and shades that move up and down, or in and out, when needed or when desired, thereby dynamizing the static properties of the glass. For other types of sun control systems (fixed or mobile Louvres, Aerofins, Sliding Shutters and Panels) please consult Hunter Douglas' Guide to Sun Control Systems or visit our website:

www.hunterdouglascontract.com

VENETIAN OR ROLLER BLINDS?

The most popular systems are the external Roller Blinds and the external Venetian Blinds, both of which cover the full surface of the window and are therefore more efficient than the various types of awnings.

OTHER PRODUCTS AND SOLUTIONS FOR SPECIAL APPLICATIONS

Among the many special products, designed for residential applications or for particular situations, such as patios, shop windows or narrow, high windows in old buildings, Hunter Douglas also offers Drop-arm Awnings, Folding-arm Awnings, Markisolettes and external Conservatory Awnings.

EXTERNAL ROLLER BLINDS

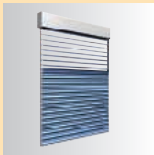


Vertical Roller Blind



Vertical Roller Blind

EXTERNAL VENETIAN BLINDS

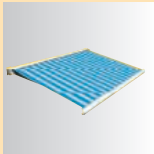


External Venetian Blind

OTHER PRODUCTS AND SOLUTIONS FOR SPECIAL APPLICATIONS



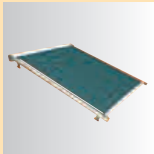
Drop-arm Awning



Folding-arm Awning



Markisolette



Conservatory Awning



Bay window Awning



These Hunter Douglas external systems offer excellent features:

- Performance - Proven efficiency in reducing the indoor temperature and energy use for cooling
- Increased productivity - Better comfort conditions enhance the feeling of well-being which is to the benefit of productivity and health of occupants
- Economic value - High quality products designed for fast and efficient installation
- Green characteristics - Our shading systems decrease energy consumption and are built with recycled aluminium parts and with a minimum of material use
- Aesthetics - Incorporated in the window design and available in a variety of colours, the system can perfectly match the design of the building. They are discreetly out of sight when retracted if properly designed into the building in an early stage of the project
- Efficiency and ease of use - The shading system can be operated manually or can be motorized or even controlled by the building management system



Left : Banque Degroef, Brussels, Belgium
 Architect: Art & Build
 Product : Motorized Roller Blinds between double façade

STRAIGHT LOGIC!

Keep the sun's heat out of the building and you don't have to cool the heat gain down. That's exactly what Hunter Douglas external Roller Blinds do: they roll down along the window and cover the whole surface of it. Made from sturdy, efficient fiberglass fabrics, they allow see-through and keep you in contact with the outside world, while arresting the sun's heat and cutting its glare and intense light. When automated, they provide a most efficient way to keep excessive heat out, while providing a level of contact with the outside. External Roller Blinds, often called 'screens' for their transparent fabrics, if planned into the building in an early stage, can be made invisible when rolled up, in a recess on top of the window.



Left and above: Inbev Headquarters, Leuven, Belgium
 Architect: Poponcini & Lootens
 Product : Motorized External Roller Blinds

External Roller Blinds

Keeping the heat out

External Roller Blinds come in a variety of shapes and sizes: there is a vast choice of head boxes, bottom bars and side channels.

The blinds can be designed for special window applications, like horizontal or sloped surfaces, sometimes with tensioned systems for best performance.

External Venetian Blinds

Flexible heat and light control



Above : Auto Wolf KG Audi Automobile, Germany
Product : External Venetian Blinds

Right : Etap, Malle, Belgium
Architect: Christine Conix
Product : External Venetian Blinds



PROVIDING COMFORT

The Venetian Blind is possibly the quintessential solar blind: it can be lowered and raised while the slats can be tilted for optimal visual conditions: that is total flexibility. The internal Venetian Blind has been a classic for many decades, but there is also an outside version of it. Sturdier, yet discrete, effective and flexible, it is one of the preferred methods of exterior solar shading. Often it adds to the building aesthetics without overpowering it. Available in a range of slat widths (50, 60, 80 and 88 mm) and an endless variety of colours, it is an efficient and welcome addition to every façade.

Natural daylight is a source of psychological well-being and promotes health and productivity. Hunter Douglas ‘Duoflex’ Outside Venetian Blinds are designed to let more natural daylight into the building while stopping excessive heat from the sun. The blind has two zones: the top zone will be kept more open for sending maximum daylight deep into the building, while the bottom part is filtering the sun and providing comfort in the field of vision.



Above : Porsche Showroom
Product : External Venetian Blinds

Below : Chamber of Commerce, Alkmaar, the Netherlands
Architect: Reus en Leeuwenkamp Architects
Product : External Venetian Blinds



Products for various applications

Solutions to fit full freedom in design

Architects, by definition, are creative people. They like to design original buildings for owners who are proud to have something unique. That's why windows and bays are designed of all shapes and sizes and solutions are needed to protect these from excessive heat gain.

Hunter Douglas has an unrivalled choice of solutions to fit virtually every design, with expert help in the engineering phase of the project.

Above : Private residence, Keerbergen, Belgium
Architect: Jo Crepain
Product : External Horizontal Tensioned Roller Blinds



SOLUTIONS FOR CREATIVE IDEAS

For every application, Hunter Douglas has a solution.

MARKISOLETTES

An attractive blend of Vertical Roller Blinds and a Drop-arm Awning. When a building, as is often the case for older buildings, has high and relatively narrow windows, Markisolettes offer a nice and visually pleasing solution. They can be equipped with transparent screenglass-type fabrics or with opaque acrylics.

FOLDING ARM AWNINGS

Shop windows, patios and garden terraces are the ideal places where Folding-arm Awnings can be successfully used. Available in a very wide range of colours, fabric patterns and sizes, Folding-arm Awnings have become very popular in the residential and commercial markets. They provide shelters of shadow and protect shop windows from the harsh UV-radiation.

DROP-ARM AWNINGS

A simple but effective solar shading device, the Drop-arm Awning will look nice on multi-storey office buildings where its distinctive design will enhance the building's looks.

CONSERVATORY AWNINGS

Conservatories form a welcome addition to the living area, a sort of buffer area between the house and the garden. But even in commercial buildings, atria and large, sloped glazed surfaces bring in abundant natural light and are very popular. However, they quickly become a source of serious overheating when the sun hits hard.

Hunter Douglas Conservatory Awnings offer a very efficient solution. These exterior solar blinds stop the sun's energy before it hits the glass. That's why they are so effective and boast efficiency ratings of 80 to 85%.

The tensioned systems, mostly controlled by wind and light sensors, automatically will cover the glazed area and protect its occupants and content from too much heat and UV-radiation.



Interior Window Covering Systems

COMFORT FOR THE EYES

Every window needs some form of internal shading system. That is because the light intensity outside will easily vary between 70,000 and 1,000 lux or less, and that will happen within seconds and with great frequency. Therefore, it is clear that there is a need for:

- Sufficient shading, to bring the illuminance level down to the required 500 or 1,500 lux (depending on the task performed) with good contrast conditions
- Avoiding glare: that's a matter of comfortable and healthy working conditions and mostly a requirement of the law
- Sufficient contact with the outside world: human beings do not like to be in a confined space without contact with nature. A view to the outside is a potent stimulation for good work

- Maximum use of natural, free daylight: not only is this good for the eyes and the perception of colours, but there is a psychological dimension to this that is very powerful
- Individual control of the workplace: in office buildings blinds are more and more integrated in the building management system. However, since the luminance situations will vary throughout the day, individual preferences should also be respected. Hunter Douglas systems will allow a pleasant degree of personal override, while maintaining the overall imperatives of efficiency with the necessary degree of automation.

VENETIAN BLINDS



Venetian Blinds



Ondulette® Blinds

ROLLER BLINDS



Roller Blinds

VERTICAL BLINDS



Vertical Blinds

DUETTE® SHADES



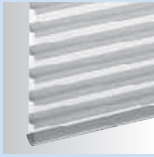
Duette® Shades

PLISSÉ SHADES



Plissé Shades

SILHOUETTE® SHADES



Silhouette® Shades

FACETTE™ SHADES



Facette™ Shades

WOOD BLINDS



Wood Blinds



Developed according to the Hunter Douglas EOS® design philosophy, Hunter Douglas products guarantee sophisticated styling, optimal functionality and user comfort.

- Visual comfort - Reducing harsh light conditions and gently filtering the natural daylight down to comfortable levels
- Sun protection - Arresting the energy of the sun - although not as effectively as external products, of course
- Decoration - Our proprietary products are a real fine element of your interior
- Fire retardancy - For commercial buildings, the high fire retardancy ratings of most of our products are a real asset
- Enhancement of working conditions - Most countries have some legislation to protect workers against unhealthy environmental conditions. With almost half the working population sitting in front of a computer screen, reducing glare and maintaining contact with the outside is a major improvement that our blinds and shades will provide



ZONE CONTROL

The Variozone™ Blind allows flexible daylight control. The blind can be operated in various zones, closing one while keeping another open, which enables to combine sun shading, outside view and privacy protection. For better use of free, natural daylight.

CLASSIC STYLING

Unbeaten in sun shading practicality; whether you choose a Venetian Blind with 16, 25, 35 or 50 mm slat. The unique 'bounce-back' quality of the Hunter Douglas aluminium guarantees longer product life and an attractive appearance.

With a full range of finishes such as brushed, metallics, uni-colours, isle coating, perforated strips, high mirror foils, embossed structures, suede or supermat, there is ample choice for any interior. HunterDouglas Venetian Blinds offer a wide variety of solutions for daylight control as well as for installation and (motorised) operation, all for numerous window shapes and sizes.



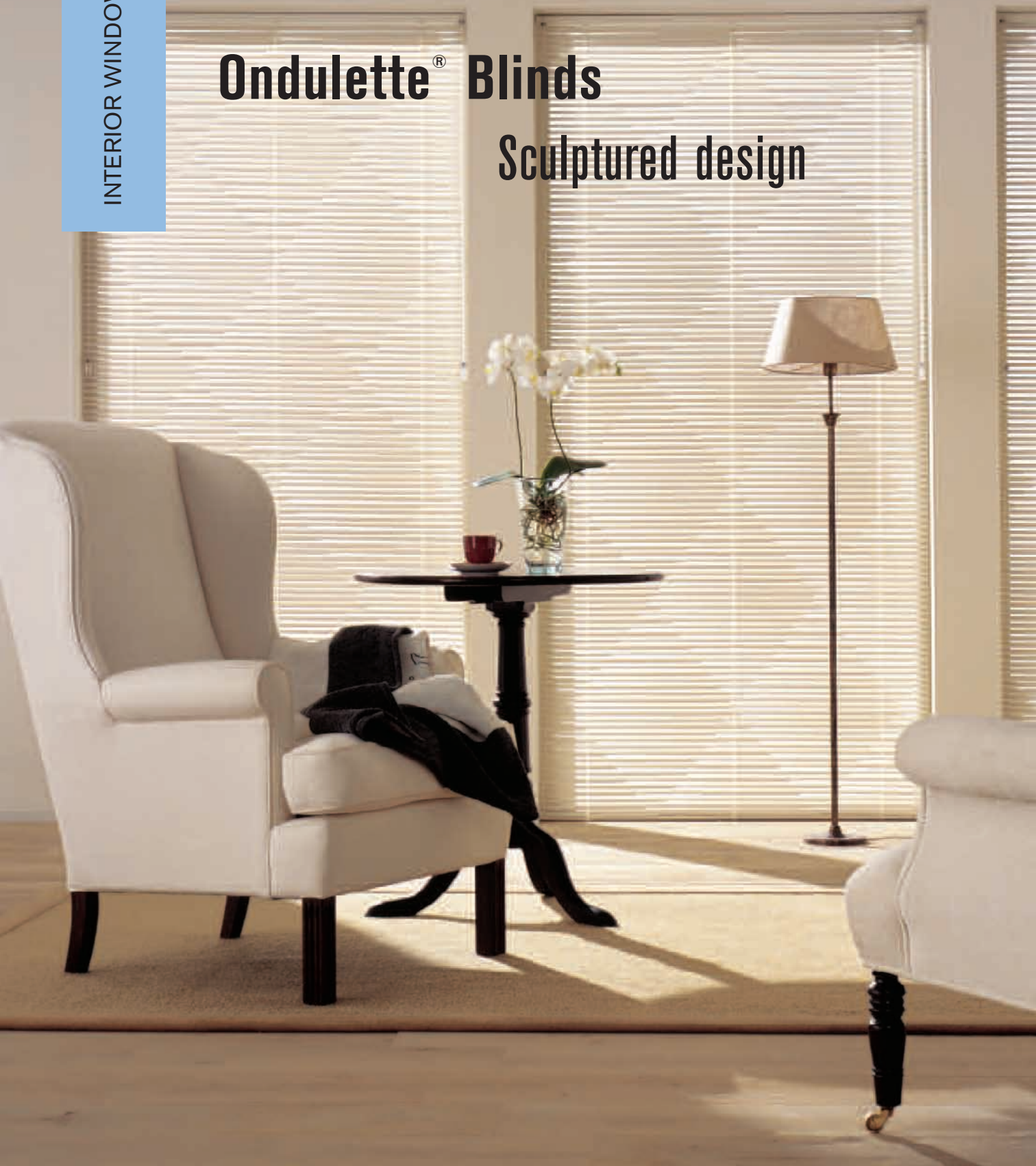
Venetian Blinds

Peace of mind



Ondulette® Blinds

Sculptured design



Right : Bath room, Cologne, Germany
Product : Ondulette® Blinds - Ocean



DESIGN PHILOSOPHY

Ondulette® Blinds are a unique type of Venetian Blind. Their design is available in various patterns, slat colours and finishes, with various control options. Ondulette® is the only blind with sculptured slats, all in the original bounce-back aluminium quality.

Ondulette® creates in every room a unique atmosphere, while still granting and ensuring all practical daylight control of traditional Venetian Blinds.



Above : Ondulette® Blinds - Desert



Left : Living room in private residence,
Rotterdam, the Netherlands
Product : Ondulette® Blinds - Cube



Left : Hesse Noord Natie office, Antwerp, Belgium
 Architect : Conix Architecten cvba
 Product : Roller Blinds

FUNCTIONALITY AND USER COMFORT

Roller Blinds are widely used as decorative and functional window covering. They are easy to fit in most situations, require little mounting space and are almost invisible when rolled up. The blinds can be lowered to any required position.

The user can avoid excessive sunlight and yet mostly retain an unblocked view to the outside. Roller Blinds are easy to operate, manually or with simple or sophisticated control systems.

Roller Blinds are available in a wide variety of fabrics. When equipped with screenglass, they offer a clean, modern look and allow a good visual contact with the outside world.



Left : City Hall, Alphen aan den Rijn, the Netherlands
 Architect : Erick van Egeraat Associates, Rotterdam
 Product : Roller Blinds, metallised motorised

Roller Blinds

Sophisticated & stylish



In recess



In face

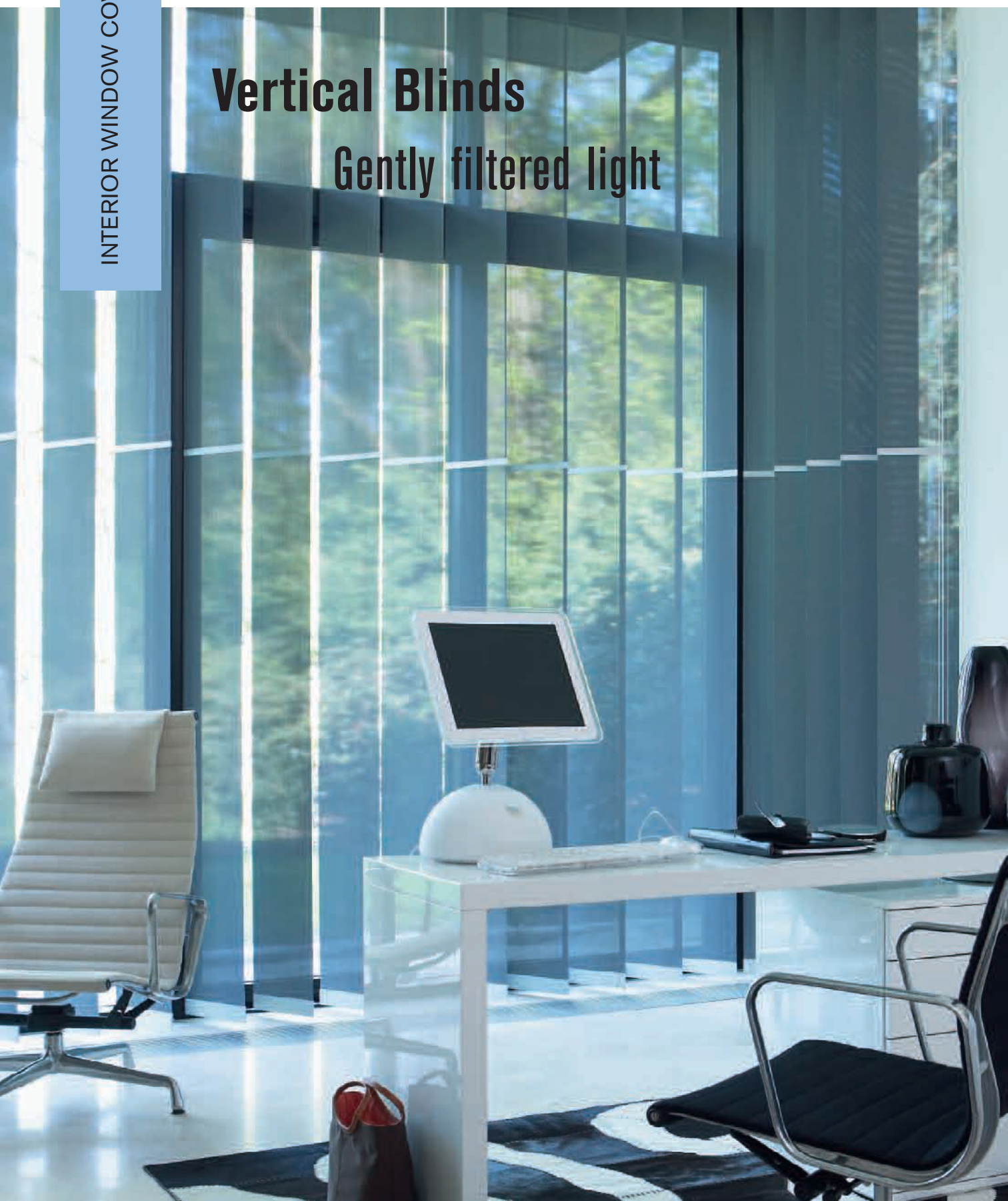


Cassette

Above : Tesorería General de la Seguridad Social, Sevilla (Spain)
Architect: Antonio Escario, Sevilla
Product : Roller Blinds, motorised

Vertical Blinds

Gently filtered light



Above : Private office, Amsterdam, the Netherlands
Product : Vertical Blinds, screen fabric

Right : Waiting room, Amsterdam, the Netherlands
Product : Vertical Blinds, pvc



FUNCTIONAL ELEGANCE

Vertical Blinds are an ideal window covering in any office, work room or public building, both from the decorative and the functional point of view. These low-maintenance blinds are available in a wide range of fabrics, but also in aluminium or pvc, and in various widths:

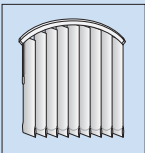
- Fabric, fiberglass or screen 89, 127 & 250 mm
- Aluminium 70 & 89 mm
- PVC 89 & 127 mm

Even sloped or curved windows can be equipped with made-to-measure, perfectly-fitting vertical blinds.

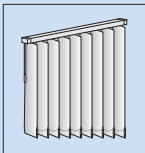
The Multivision™ range offers fire retardant fabrics with varying light filtering capabilities.



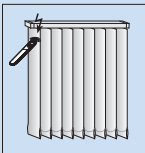
Above : City Hall, Spijkenisse, the Netherlands
Product : Vertical Blinds, aluminium



Curved Rail



Slope



With remote control





Above: A sense of privacy and excellent light control in your personal office with Duette® Shades.



THE HONEYCOMB INSULATION

Duette® Shades are available in a range of fabrics with 25 or 32 mm wide pleats. When installed close to the window, or in a double façade, they have excellent insulating properties. The honeycomb cells increase the insulation and reduce the energetic exchanges of the window during winter and summer. Furthermore, the double-walled honeycomb structure makes the fabric extremely strong, durable and less prone to wrinkles. When drawn up, they fold into a compact stack.

Duette® Shades combine stylish window treatments with superb control of daylight, heat transfer and privacy. They fit many irregular window shapes, with a choice of various control options.

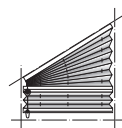
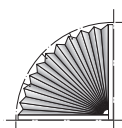
Right : Bath room, Hotel Madrid, Spain
Product : Combi Shade Duette®-Plissé Shades



Duette® Shades

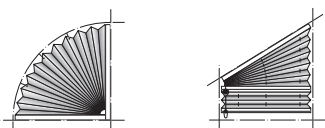
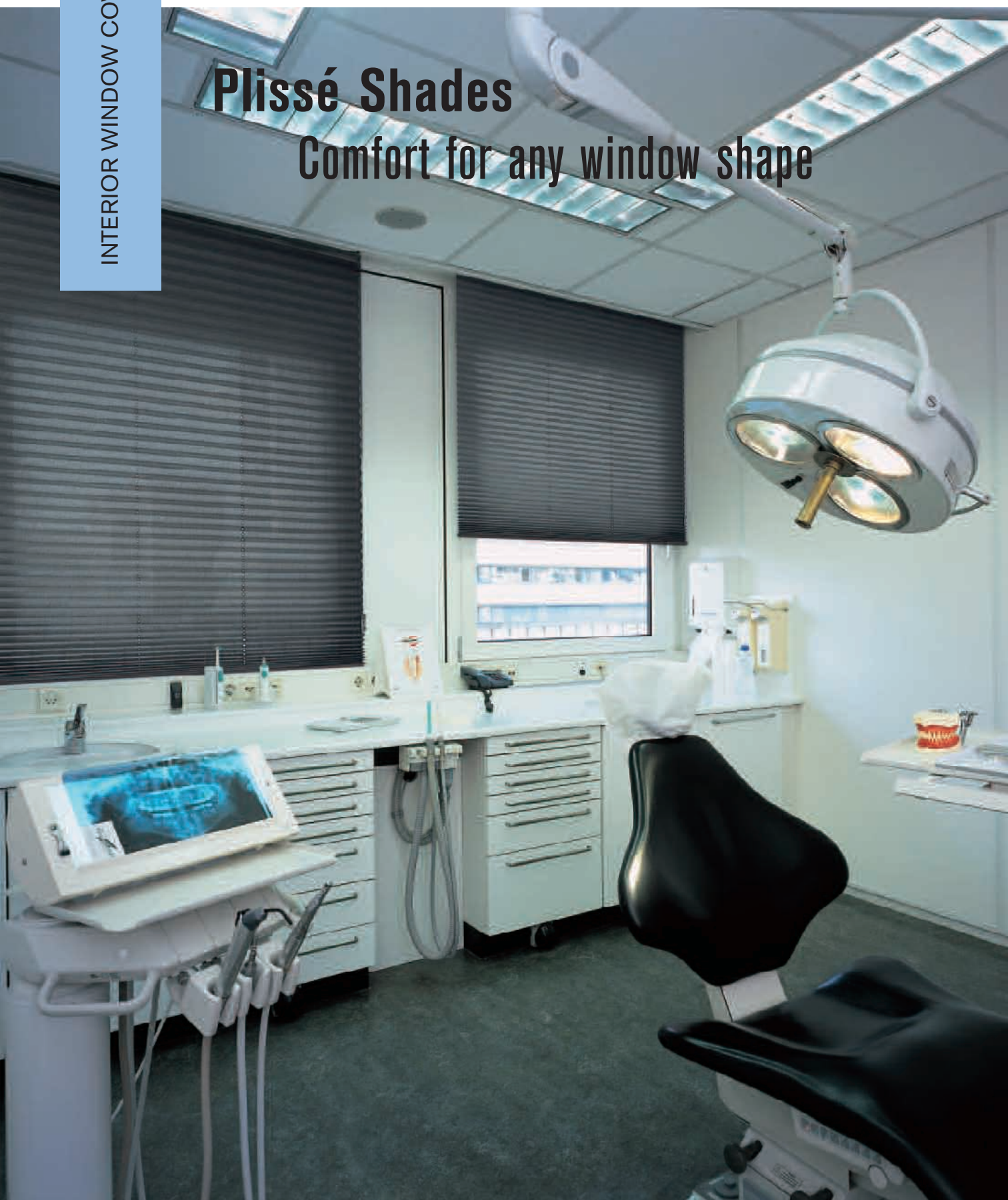
Duette® Shades

Stylish control of daylight



Plissé Shades

Comfort for any window shape



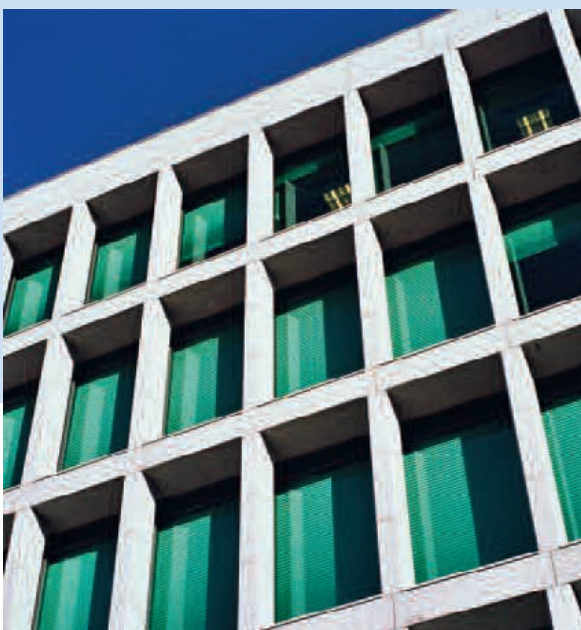


Above and below: Daimler Chrysler, Utrecht, the Netherlands
 Architect: OTH, Amsterdam
 Product : Plissé Combi Shades

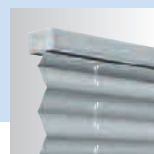
DECORATIVE AND FUNCTIONAL

Plissé Shades (with 20 mm pleats) offer a specific range of fabrics available in many colours in different transparencies, all fire retardant.

Plissé Shades combine stylish window treatments with superb control of daylight, heat transfer and privacy. They fit many irregular window shapes, with a choice of various control options.



Right : Office Building Edificio Hidafa, Madrid (Spain)
 Architect: Enrique Torija, Madrid
 Product : Plissé Shades



Plissé Shades



Left : Office Building XX Architecten, Delft, the Netherlands
Architect : XX Architecten, Delft
Product : Silhouette® Shades

LIGHT AS SILK

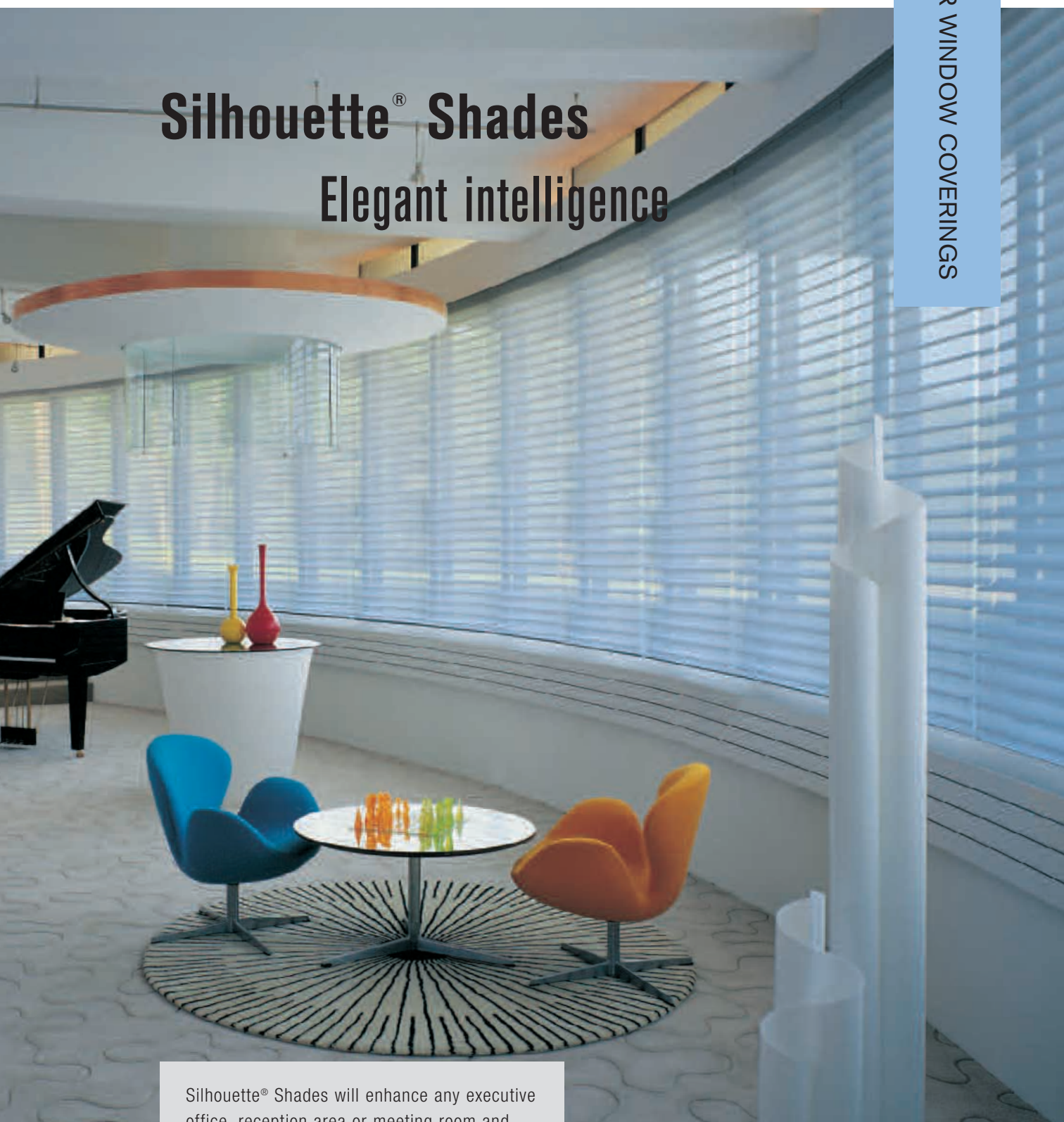
Elegant as a curtain, functional as a Venetian Blind. This unique, ingenious and patented shading system combines the best added values of voiles, Venetian Blinds and curtains into one innovative, high tech and extremely efficient window covering solution. It has created an entirely new decorative window furnishing, which clearly differs from everything else on the market.

The revolutionary design comprises soft fabric vanes, which appear to float between two layers of sheer fabric. Silhouette® Shades softens excess of daylight by double diffusion effect, avoiding glare and strong direct sunlight into the room. The suspended vanes tilt with precision, giving you total light control and privacy.



Silhouette® Shades

Elegant intelligence

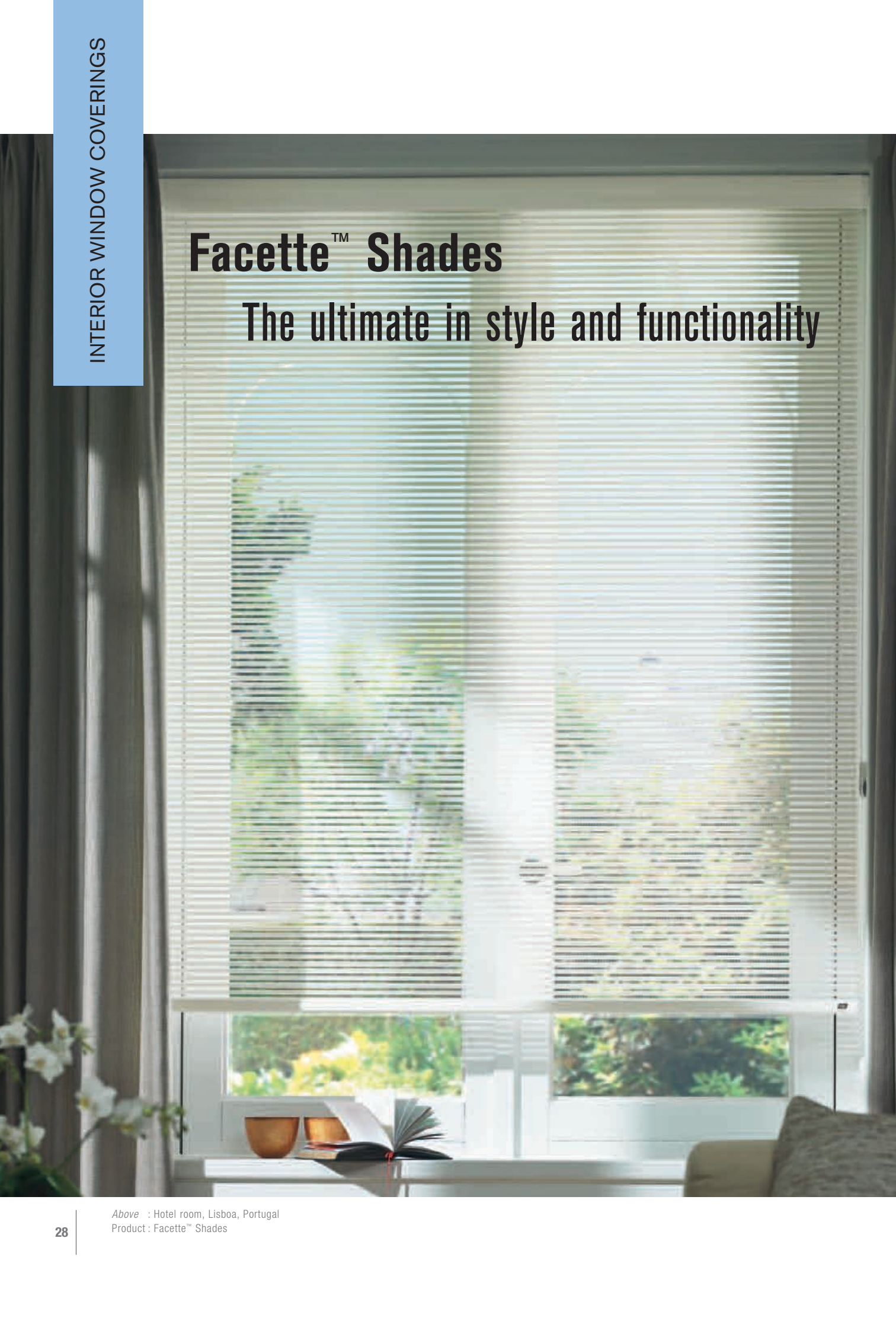


Silhouette® Shades will enhance any executive office, reception area or meeting room and will be a welcome addition to all rooms where design must meet functionality.

Above : Reception, Amsterdam, the Netherlands
Product : Silhouette® Shades

Facette™ Shades

The ultimate in style and functionality



Right : Atelier, Malmö, Sweden
Product : Facette™ Shades

INVITING AMBIANCE

Highly elegant yet highly practical, Facette™ Shades combine style with functionality.

This new and innovative fabric features alternating, moveable layers of translucent and opaque parallel segments, allowing you to enjoy the beauty of natural light as and when you wish:

- Unique clear outside views
- Soft, subtle light control
- Optimal privacy

The stylish soft fabric creates an inviting ambiance in any room, transforming interiors with the glow of warm light.

Facette™ Shades provide increased comfort and safety and are made of the high quality fire retardant Trevira CS fabric.



Above : Facette™ Shades



Open



In between



Closed



THE WARM, NATURAL LOOK

Hunter Douglas Wood Blinds are made-to-measure and available in slat widths of 35 mm and 50 mm.

The warm, natural look of the wood, combined with the ingenious design of the blinds controls the level of light entering the room. Wood Blinds are an exceptional product, providing an ideal decoration for your window and adding character to your rooms.

They will look fine in prestigious offices, reception halls, conference rooms and restaurants.



The Forest Stewardship Council is an international non-profit organization founded in 1993 to support environmentally appropriate, socially beneficial, and economically viable management of the world's forests. It is an association of Members consisting of a diverse group of representatives from environmental and social groups, the timber trade and the forestry profession, indigenous people's organizations, community forestry groups and forest product certification organizations from around the world.

FSC Trademark © 1996 Forest Stewardship Council A. C.

Above : Ahold Headquarters, Zaandam, the Netherlands
 Architect: Olliv Interior Architects, Amsterdam
 Product : Wood Blinds



Wood Blinds

Natural feeling



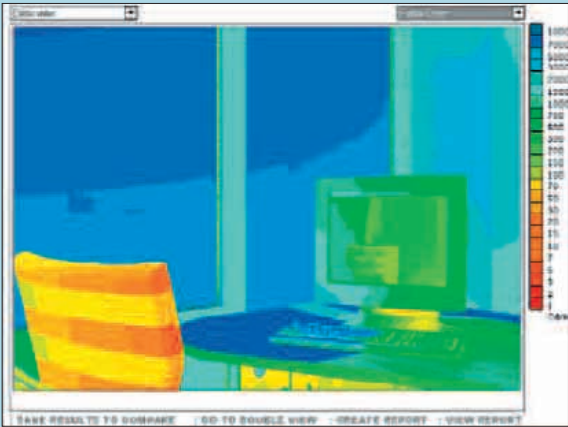
Above : Private office, the Netherlands
Product : Wood Blinds

Heat and light control

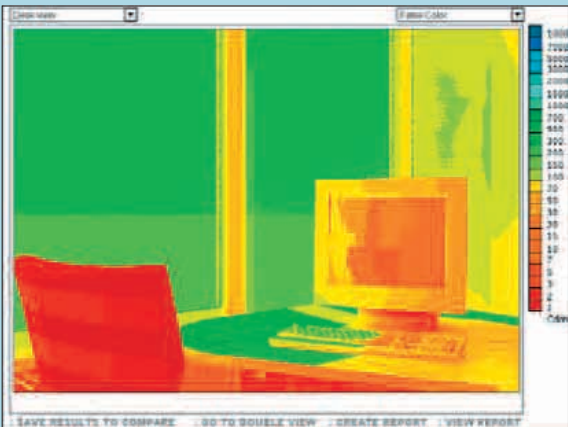
HUNTER DOUGLAS CONSULTANCY IN AN EARLY STAGE OF THE DESIGN

With state-of-the-art software for building simulation, we support and advise our business partners, to make sure that the right product is chosen to meet the specific building requirements. Based on data such as geographical location, orientation, type and quality of glass and specific use of the building, Hunter Douglas can show the expected results and recommend the suitable product or combination of products.

The reduction of the sun radiation entering the building due to the use of an external solar shading system immediately reduces the amount of energy needed to cool the building. Therefore, the capacity of the cooling equipment can be reduced, resulting in a lower initial investment and lower energy consumption. Hunter Douglas external solar shading systems noticeably improve the personal comfort level. When, on top of that, a smart artificial light system is used that automatically adjusts itself to the daylight levels entering the building, the energy consumption will again be reduced. The light intensity will be turned lower or higher as a reaction to the daylight that is actually entering the building. Hunter Douglas can display the lux-levels during sunny and overcast days in relation with our solar shading systems.



Luminance values in cd/m^2 without Solar Shading

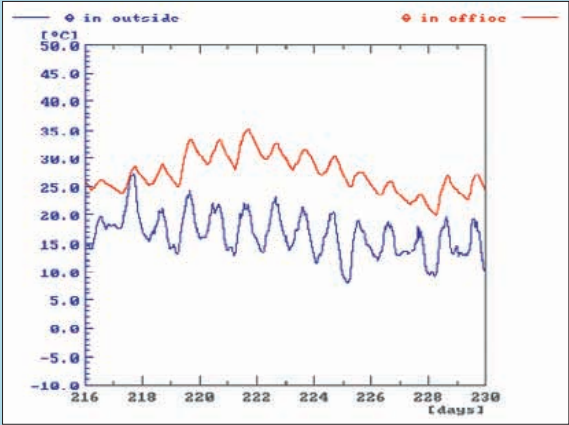


Luminance values with light coloured Hunter Douglas Roller Blind*

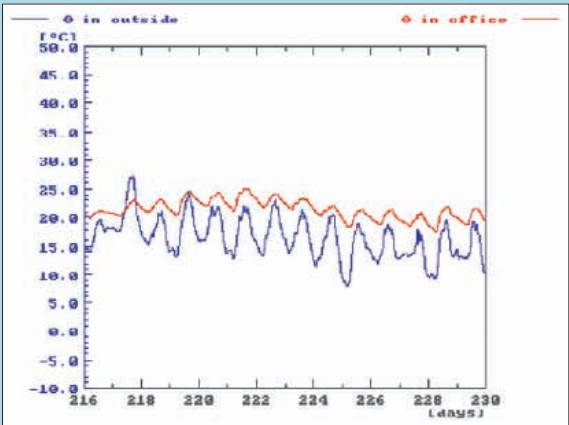
LIGHT

The quantity of natural sunlight outdoors varies quickly and strongly, while the required light levels for comfortable work are relatively narrow. Hunter Douglas can give advice, showing how light and contrast levels can be expected to be with a number of its window covering products. Comparisons of different solutions can be made, resulting in the ideal solution for the requested performance. The results presented in a clear visualization can be added to the building specifications ensuring the comfort criteria will be met.

* example only, for a given geographical location, sky conditions, type of glazing etc.



Indoor and outdoor temperature without external Solar Shading



Indoor and outdoor temperature with external Solar Shading*

HEAT

External Sun Control Systems, like Roller Blinds or external Venetian Blinds, keep most of the sun’s heat from entering a building. Hunter Douglas has developed software to visualize indoor temperatures when using various blind systems, with an indication of the energy demand for heating and cooling the building. A smart control system will contribute to better use of renewable energy sources, because in wintertime the welcome free solar energy will be used to reduce the energy needed to heat up the building.

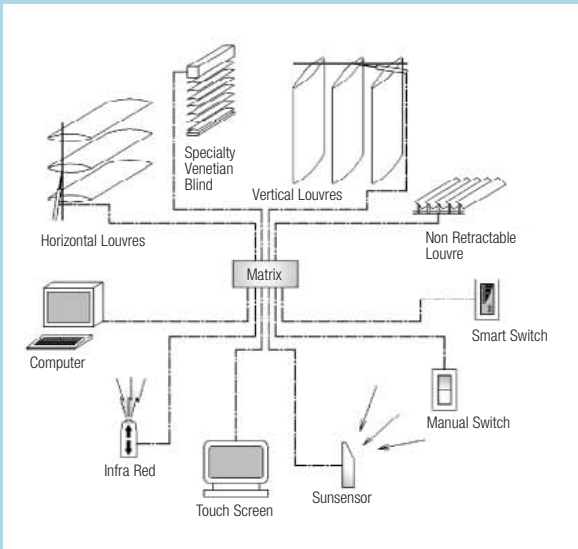


* example only, for a given geographical location, climate data, type and size of glazing etc.

Control Systems

TAKE CONTROL

Personal control is often considered an essential element of comfort. Yet, it often collides with the efficiency that an automatic control promises. The balance can be found by offering a degree of personal choice during office hours, while leaving the automatic control fully in command the rest of the time. Whether you desire a basic system, related to the sunpath and weather conditions or an intelligent system, which allows full personal light and heat control while taking in account the overall building management, Hunter Douglas has the solution for you.



CONTROL SYSTEMS

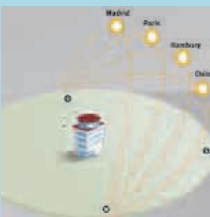
Hunter Douglas Basic, Advanced, and Intelligent Control Systems allow powerful and efficient operation of Hunter Douglas Sun Control Systems. Because personal control is often an important factor, systems can be combined to operate via switches, desktop, or palmtop.

BASIC CONTROL SYSTEMS



Basic control systems respond to an on-off switch. This switch can be a fixed or a remote controlled unit. The adjustable Sun Control System can be positioned in any angle and therefore this is the optimum personal controllable system.

ADVANCED CONTROL SYSTEMS



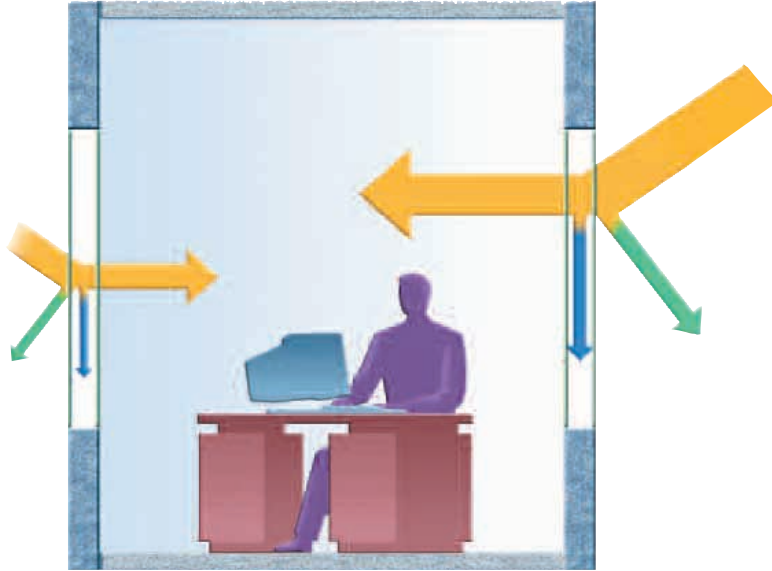
Advanced control systems respond to a range of controls, including switches and timers. This system supports a limited amount of feedback options like sun and wind sensors in an optimal shading and light regulation.

INTELLIGENT SYSTEMS



Intelligent control systems with programmable software. This allows a high degree of freedom in operating the Sun Control System. Connected to the building management system, cooling and heating and even the lighting levels can be controlled. All levels can manually be overruled and an overall reset can be programmed on pre-set moments of the day.

ENVIRONMENTAL CONSIDERATIONS



In several reports, strong and convincing arguments have been made that better thermal insulation of buildings will increase energy efficiency and contribute considerably to the goals of the Kyoto Protocol. Among the various measures, improved glazing has been repeatedly recommended, along with more insulation. Glazing, however, remains a static element in the building's envelope, while the outdoor climate conditions alter with the seasons and can vary considerably in the course of a day. Solar shading devices, preferably controlled, mobile and automated, will make the solar transmittance through the windows dynamic and adaptable. In that way, both the cooling energy demand in summer and the heating demand in winter can be substantially reduced, by making good use of free solar gains, when they are welcome - in winter - while avoiding overheating in summertime.

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ARCHITECTURAL SERVICES

We support our business partners with a wide range of technical consulting and support services for architects, developers, installers and, last but not least, owners and occupants. We assist architects and developers with recommendations regarding materials, shapes and dimensions, colours and finishes. We also help creating design proposals, building simulations and energy calculations. Our services to installers range from providing detailed installation drawings and instructions to training installers and advising on the building site. For the owners and occupants, we provide comfort and energy savings, which enhances real estate value.



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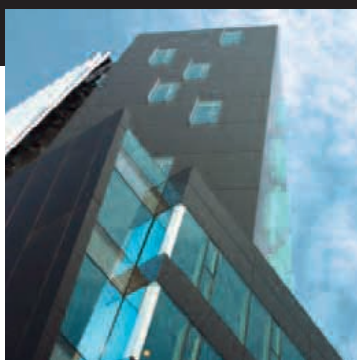
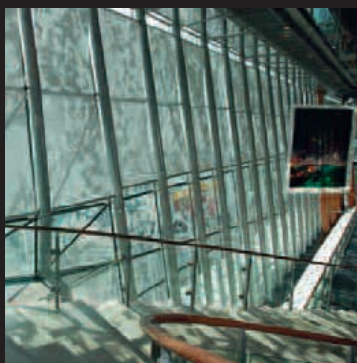
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The origin of our company goes back to 1919, in Düsseldorf, Germany. Throughout our history, we have introduced innovations that have shaped the industry, from the invention of the continuous aluminium caster, to the creation of the first aluminium Venetian Blinds, to the development of the latest high-quality building products. Today we employ 20,000 people in our companies with major operation centres in Europe, North America, Latin America, Asia and Australia.

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