Integrated building solutions optimize interior brightness and glare levels

SUN CONTROL

Optimize energy efficiency and comfort
Hunter Douglas is the world market leader in daylight regulation and solar heat control solutions with window covering and architectural products. We are dedicated to continually improving and broadening our product portfolio by developing innovative proprietary products. We offer an extensive range of interior and exterior applications in Window Covering and Sun Control.

Our Luxacote® finish for rollformed products was specifically designed to withstand severe external conditions. The topcoat contains a solid UV filter, which guarantees perfect colour and gloss stability. This topcoat provides resistance against scratches and abrasion while the alloy and pre-treatment ensure corrosion resistance. Hunter Douglas products have been subjected to extensive laboratory and real-world testing to ensure the highest quality.

Cover: Mokotów Residence apartment building, Warsaw, Poland
Architect: Ergo Architekci
Product: Sliding Shutters
Design, Functionality and Comfort

With over 40 years of experience with exterior Sun Control Systems, Hunter Douglas provides architects with the knowledge and expertise to integrate Sun Control Systems into the building architecture, enhancing the façade while providing highly effective sun protection. From made-to-measure external venetian blinds to custom made folding shutters, Hunter Douglas’ engineering team will develop innovative and specific Sun Control solutions to meet the aesthetic and performance requirements of any project.

DESIGN
Our Sun Control Systems are engineered for a wide range of applications including fixed, operable and automated solutions to meet the requirements of any building design. Various system principles and materials are available, as well as a variety of shapes, sizes and finishes.

FUNCTIONALITY
Our systems are tested in real life conditions against wear and tear, as well as for performance in wind and snow conditions. Our Sun Control Systems are made in high quality materials and are easy to maintain, ensuring the product continues to look and perform well over time.

COMFORT
Modern buildings are so well insulated that they have little need for heating. Heat gain caused by the sun however creates a need for large cooling capacities to ensure the comfort of a building’s occupants. Sun Control Systems stop excess heat on the outside of the building so that the required cooling capacity is greatly reduced. Good working conditions for the occupants of a building are provided with less use of energy, thereby supporting a sustainable building.

To make sure that worker comfort and energy efficiency are both optimised the sun control systems can be motorised and controlled automatically via sensors or a building management system.

By automating the sun control systems they are always applied in time when necessary, before solar radiation has had the chance to raise the interior temperature.

HunterDouglas®
Sun Louvres, Shutters, Venetian Blinds and Roller Blinds Systems blend style and functionality, bringing a distinct look to a building’s exterior and interior while providing shade and comfort to the people inside. The use of high quality materials ensures reliable systems adding to sustainable buildings.

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EXCLUSIVE CONTROL

Optimum Flexibility

HunterDouglas® External Venetian blinds and Roller blinds require minimum space for maximum efficiency. External blinds are a highly functional and cost effective sun control solution for low-rise buildings or in areas with an average windload. Keeping out solar radiation on the outside, external blinds are the most effective for the reduction of heat gain.

HunterDouglas® External Blind Systems offer excellent design, functionality and comfort;
• Performance - Being retractable external blinds can offer optimal shading or an optimal outside view
• Economic value - High quality products designed for fast and efficient installation
• Green characteristics - Our shading systems decrease energy consumption with a minimum of material use
• Aesthetic product - Incorporated in the window design and available in a variety of colours the system coordinates with the design of the building
• Ease of use - The blind system can be operated manually or controlled by the building management system

Previous page: Statoil regional and international offices, Fornebu, Bærum, Norway
Architect: a-lab (Arkitekturlaboratoriet AS)
Product: Exterior Venetian Blinds

Above: Administration Centre ‘De Vuurmolen’, Overijse, Belgium
Architect: A2D Architects
Product: External Roller Blinds, motorised

Above: ‘Josef Gasser’ Gymnasium, Bressanone, Bozen Italy
Architect: Peters & Keller Architekten
Product: External Venetian Blinds, 80 mm, Motorised
Below: Warsaw Business Garden office buildings, Warsaw, Poland
Architect: JSK
Product: External Roller Blinds, motorised, side guiding channels integrated with facade mullions
Functionality and appearance

Above: ‘Josef Gasser’ Gymnasium, Bressanone, Bozen Italy
Architect: Peters & Keller Architekten
Product: External Venetian Blinds, 80 mm, Motorised
EXTERNAL VENETIAN BLINDS

External Venetian Blind Systems are an extremely discrete, effective and flexible solar shading solution. Its slim design ensures a subtle appearance, which contributes to the overall building aesthetic without overpowering it. A variety of colours and slat type ensures the perfect match for any project.

EXTERNAL VENETIAN BLINDS

REGULATE, OPTIMISE AND REDUCE

- Roll formed aluminium slats of 50, 60, 80, 88 or 100 mm wide
- Available in a range of “best of contract” colours, any other colour on request
- All profiles are extruded and anodized or powder coated into different colours
- Two operation options:
  - Manual with crank rod
  - Motorized (suitable for central control systems)
- Slat angle can be adjusted, optimising light entering the building and reducing glare on computer screens
- Transfer of heat to interior is minimal, up to 90% of solar radiation on the window is kept out of the building.
EXTERNAL ROLLER BLINDS

External Roller Blinds offer effective solar control and add to the facade appearance. Filtering solar radiation the system reduces glare and the amount of light and heat that enters. Hunter Douglas offers two ranges of External Roller Blind systems: ProScreen as the basic cost-effective roller blind and Ultimate Screen Zip as wind resistant system with continuous side guiding of the fabric. Both systems use high quality glass fibre screen fabrics allowing large product dimensions.

PROSCREEN

BASIC AND COST-EFFECTIVE

- Crank or motor operated
- Four cassette types allow large fabric dimensions
- Cable or profile side guiding
- Bottom rail with patented damper to reduce wind vibration noises
- Also suitable for recess installation
- Easy assembly and installation.

ULTIMATE SCREEN ZIP

WIND RESISTANT WITH A SLEEK APPEARANCE

- Continuous side guiding via zipper construction holds fabric tightly in place
- Guaranteed wind resistant to 17 m/s wind speed, tested to 27 m/s wind load equivalent
- Motor operated
- Easy front installation
- Large fabric dimensions, even with high wind loads.
Internal comfort
SHUTTERS
The Modern side of Classic
SHUTTERS
The Modern side of Classic

Shutters are a mainstay of traditional construction and were relied upon for their insulation and shading. As high-performance glass became available, the extra insulation was no longer necessary, leading architects to move away from their use. However, with the abundance of glass in modern architecture, proper sun protection and a certain amount of privacy are important to create an internal comfort. Our sliding and folding shutters provide these elements while creating distinct looks which add to the building appearance.

HunterDouglas® Shutters offer excellent design, functionality and comfort:
• Performance - Optimal choice in shading performance and privacy control
• Economic value - Highly durable products with a life span equal to that of the facade. Installed, the system requires very little maintenance
• Green characteristics - Increase personal comfort level and decrease energy consumption
• Aesthetic product - Shutters can be part of the building design and with the choice of different materials and colours we offer an unparalleled design freedom
• Ease of use - The shutters can be operated electrically or manually and a choice of fixed and adjustable fins can be made.

SLIDING SHUTTERS            FOLDING SHUTTERS            CUSTOM SHUTTERS

Previous page: Ex Comparto Milano, Brescia, Italy
Architect : 5+1 AA
Product : Sliding Shutters Flat Bar

Above : Residential building
Architect : Make-it 3D
Product : Sliding Shutters Screen
Below: Kings Cross Arthouse, London, United Kingdom
Architect: dRMM and Weedon Partnership
Product: Sliding Shutters, manual and motorised
Shading & Privacy

Above: Residence Hoog Banka, The Hague, The Netherlands
Architect: De Architektenkombinatie Bos Rosdorff Wiebing
Product: Sliding Shutters, motorised
SLIDING SHUTTERS
This popular design element vertically mounts to the façade and gives the architect the opportunity to focus not only on solar control and privacy, but also on the façade’s visual enhancement. Sliding Shutters are manufactured from high quality materials and are suitable for many different types of buildings. Sliding shutters add a dynamic aspect to the facade while still providing a uniform appearance.

SLIDING SHUTTERS
INFILL OF FINS, METAL SHEET OR FABRIC
- The fins in the aluminium extruded frame are available in aluminium and Western Red Cedar wood, in various shapes and as fixed or adjustable application.
- The perforated sheet shutter is frameless and comes in two perforations of 5% and 10% openness for good shading functionality. Custom perforations also possible.
- The screen shutter uses a hidden frame with concealed tensioning of the durable glass fibre screen fabric.
- Finishing options:
  - Aluminium frames and fins can be anodised or powder coated in a wide range of colours
  - Western Red Cedar is a durable wood, which can be used untreated or oiled
  - Glass fibre fabric is available in a wide range of colours
  - Perforated sheet can be powdercoated in any colour
- Sliding shutters can be manually operated or motorized with a 24V belt drive system
- Top and bottom rails, runners and necessary hardware are part of the system.
FOLDING SHUTTERS
Folding shutters provide the architect with an even more dramatic way to use sun control for a dynamic building appearance. Flush with the facade in closed position and projecting out in open position, folding shutters transform the facade from a monolithic shape to a transparent structure in seconds.

FOLDING SHUTTERS
INFILL IN FINS OR METAL SHEET
• The fins in the aluminium extruded frame are available in aluminium and Western Red Cedar wood and in various shapes
• Sheet metal is available in two perforations with 5% and 10% openness. Custom perforations also possible
• Folding shutters can be manually operated or motorized with the unique HunterDouglas® flat folding hinge mechanism
• Finishing options:
  - Aluminium frames and fins can be anodised or powder coated in a wide range of colours
  - Western Red Cedar is a durable wood, which can be used untreated or oiled
  - Perforated sheet metal can be powdercoated in any colour.
Solar Control and Privacy

Above: Stadsgehoorzaal, Leiden, The Netherlands
Architect: Architecten van Mourik
Product: Folding Shutters, motorised
Creative solutions

Above: Garden Pavilion, The Netherlands
Architect: Ivo de Bruin (Studio Puur NL)
Product: Folding Shutter, motorised, with CorTen steel cladding
CUSTOM SHUTTERS

Customised Shutters create eye-catching façade details, allowing for light and heat control while also ensuring privacy. Based on our proven principles of sliding or folding shutters and an extensive experience in project solutions, the application of custom shapes and materials offers maximum design flexibility.

CUSTOM SHUTTERS
MATERIAL, TECHNOLOGY AND DESIGN

Hunter Douglas has had experience for many years in assisting architects in the application of special designs or materials in shutters. This has included vertically folding shutters, custom laser cut patterns in sheet metal, printed glass, copper stretch metal and much more.

Above : Il Sole 24 Ore, Milan, Italy
Architect : Renzo Piano
Product : Screen Classic 525

Above : Malburgen Lupinestraat, Arnhem, The Netherlands
Architect : Groosman Partners
Product : Sliding Shutters with steel frame filled with glass

Below : Altis Belém Hotel, Doca do Bom Sucesso, Lisbon, Portugal
Architect : Risco Architects
Product : Multiple Folding Shutter, motorised, with custom design sheet cladding
SUN LOUVRES
Designed to Impress
HunterDouglas Sun Louvre Systems are based on roll formed or extruded aluminium panels and are fully integrated with a variety of support structures. With both horizontally projected and vertically mounted applications as well as a variety of different panel sizes and pitches, an optimal choice can always be found.

HunterDouglas® Sun Louvre Systems offer excellent design, functionality and comfort:
- Performance - Optimal shading performance and easy to adapt to specific project requirements
- Economic value - Highly durable products, designed for fast and efficient installation
- Green characteristics - Our systems increase personal comfort level and decrease energy consumption
- Aesthetic product - Colours, shapes and details offer great design freedom
- Ease of use - All louvre systems require very little maintenance.

Above : Janmor Office Building, Pabianice, Poland
Architect : C-13 Architektura Stosowana
Product : Sun Louvres 84R, External Venetian Blinds

SUN LOUVRE SYSTEMS

84R  70S  132S  100R  110HC

Previous page : Toyota Car Showroom, Warsaw, Poland
Architect : MCA
Product : Sun Louvre 84R
Below: Mathematics Science Institute, Madrid, Spain
Architect: Intecsa-Inarsa
Product: Sun Louvre 84R and 100R
ROLLFORMED SUN LOUVRE SYSTEMS

Hunter Douglas has a long history in the rollforming of architectural products. Made in durable coil coated aluminium these products are flexible and highly efficient. 84R Sun Louvre system is a real classic, used for applications on straight, curved or angled façades. The product has an elegant, light appearance and nicely curved edges. 70S and 132S Sun Louvre Systems consist of Z-shaped sturdy panels. These panels are used in order to achieve a crisp exterior appearance.

84R:

A REAL CLASSIC

- Roll formed C-shaped panels 84 mm wide
- Highly reflective white coating at inside
- 17 colours available as standard
- Coil coated with a UV and scratch resistant Luxacote® coating
- Colour matches on request
- Can be curved to follow the shape of the building
- Endless linear appearance by connecting the panels
- Span at 1000 N/m² wind load: 1.2 m.

70S/132S:

FOR SHADING EFFICIENCY

- Z-shaped roll formed panels 70 mm or 132 mm high
- Highly reflective white coating at inside
- Coil coated with a UV and scratch resistant Luxacote® coating
- 17 standard colours available
- Colour matches on request
- Span at 1000 N/m² wind load: 1.3 m for 70S and 1.8 m for 132S
- 132S optimized for low sun angle façade system.
EXTRUDED SUN LOUVRE SYSTEMS
Sun louvres in extruded aluminium allow large panel spans and high freedom of design. They can withstand considerable wind loads and impacts. The 100R Sun Louvre is a fixed system with strong, durable C-shaped panels. The product has an open and sturdy appearance. The 110HC/110HF panels are fit within a frame resulting in a compact system with low over all height.

100R:

CRISP AND DURABLE
- Extruded C-shaped panels of 100 mm wide
- Finish: Anodized or powder coated to specifications
- Connected panels achieve visually continuous lines
- Span at 1000 N/m² wind load: 2.4 m
- Optional fascia profile matching with panel shape.

110HC/110HF:

THE COMPACT SOLUTION
- Extruded C-shaped or Wing shaped panels of 110 mm wide
- Shallow system as the panels are mounted between the supports
- Finish: Anodized or powder coated to specifications
- Optimized for horizontal or angled projected system
- Span at 1000 N/m² wind load: 1.8 m
- Fascia: U-shaped or bull nose profile.
Using the right sun control system can greatly influence the thermal and visual indoor climate. Effective reduction of solar radiation entering the building immediately decreases the amount of energy needed to cool the building. By blocking, transmitting or reflecting direct sunlight and daylight HunterDouglas® Sun Control Systems can optimize the interior brightness and glare levels and maintain the visual contact with the outdoors.

Providing good thermal and visual comfort at a minimum energy cost calls for a careful matching of façade walls, glazing, sun control, lighting and HVAC equipment. This is a distinctly non-trivial exercise. Choices made in the early design phases can have a huge impact on the energy use of a building.

Hunter Douglas engineers can assist in this process by providing you with fenestration data for specific project situations and products. This information can be incorporated in the energy analysis of the building.

Solar reflectance: solar control and natural ventilation can reduce air-conditioning
Control systems

Adjustable sun control systems offer the advantage of reducing heat gain and glare in sunny conditions and allowing uninhibited outward view and maximum daylighting when the weather is cloudy. This effect is however dependent on the actual deployment; if a blind is not lowered when the sun appears, it will be totally ineffective. Ease of use will help to increase the efficiency. Automation by weather sensors will greatly improve this. Integration in a building management system will allow real optimisation between sun control, cooling and heating systems and lighting, creating maximum comfort with minimum energy use.

CONTROL SYSTEMS
Hunter Douglas can offer basic and advanced control systems and can advise about the integration of Sun Control Systems in building management systems. All HunterDouglas motorised systems can be incorporated in BMS infrastructures like KNX or EIB/LON.

BASIC CONTROL SYSTEMS
- Switch
- Remote Control

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
- EOS Touch
- Weather station

Advanced control systems respond to a range of controls, including switches and timers. This system supports sun and wind sensors in an automated shading and light regulation and allows central control of all sun control systems in a building.

INTEGRATED CONTROL SYSTEMS
- Building / Energy Management

Connected to the building management system, sun control systems can be controlled in combination with cooling and heating and even the lighting levels. This allows creating interior comfort with minimum building energy use.
For 50 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, discovering new, inventive 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.
Our paint and aluminium melting processes are considered to be one of the industry standards in terms of clean production processes. All aluminium products are 100% recyclable at the end of their lifecycle.

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 installation drawings. Our services to installers range from providing detailed installation drawings and instructions to training installers and advising on the building site.

Learn More

- Contact our Sales office
- www.hunterdouglascontract.com

Hunter Douglas products and solutions are designed to improve indoor environmental quality and conserve energy, supporting built environments that are comfortable, healthy, productive, and sustainable.
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Bulgaria  
Croatia / Slovenia  
Czechia  
Denmark  
France  
Germany  
Greece  
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Italy  
The Netherlands  
Norway  
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