

Vertical Venetian Blinds

HunterDouglas® Vertical Venetian Blinds offer modern and stylish designs, all available in a variety of shades, vane widths and fabric treatments for a bolder, more architectural look.



HunterDouglas

WINDOW COVERINGS



Vertical Venetian Blinds

Elegant simplicity for larger windows

DESIGN

HunterDouglas® Vertical Blinds are an ideal window covering in any office, work space or public building, both from the decorative and the functional point of view. These low-maintenance blinds are available in aluminium, fabric or PVC vanes in different widths (70, 89, 127, 250 mm) and a wide selection of finishes, textures and colours.

Vertical Venetian Blinds are available in a range of perforations & combinations of vanes. The choice of multiple perforations in one vane or blind allow you to choose how much or how little light you let in. This enables you to combine a balanced approach in daylighting, outside view, privacy and glare control.

FUNCTIONALITY & COMFORT

HunterDouglas® Vertical Blinds allow maximum coverage of large windows at a cost-effective price. Our vertical track is exceptionally durable and features a range of carrier train systems to fit a variety of applications, including choices for curves, slopes, and motorization.

EASY INSTALLATION

The Vertical Venetian Blinds hardware systems are designed to offer the best mounting solutions. Whether the Vertical Venetian Blinds need to be installed on the beading, in the window frame, 'in recess' or on the wall. For any shape of window, we offer models and options to create the perfect fit.



ENERGY & LIGHT

HunterDouglas® Vertical Venetian Blinds 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

Standard System

SYSTEM PROPERTIES

The standard blind consists of a straight, horizontal head rail, made with natural anodized or powder coated extruded aluminium, size 40 x 25 mm. Manual operated by a metal ball chain for tilting and a cord for spreading and stacking, the controls can be placed left, right or left and right (two in one head rail).

COMPONENTS

Slat travellers

Slat travellers made from transparent plastic have a built-in slat hook that are applied with horizontally mounted tracks. For sloped tracks and vertical curved tracks a patented adjustable slat hook is used.

Optional: Traveller stop removable

The traveler stop/removable, made from plastic will hold the train to prevent the vane stack from touching the wall.

SLATS & VANES

Slats and vanes widths:

- Aluminium: 70 and 89 mm
- PVC: 89 and 127 mm
- Fabric/Screen: 89, 127 and 250 mm

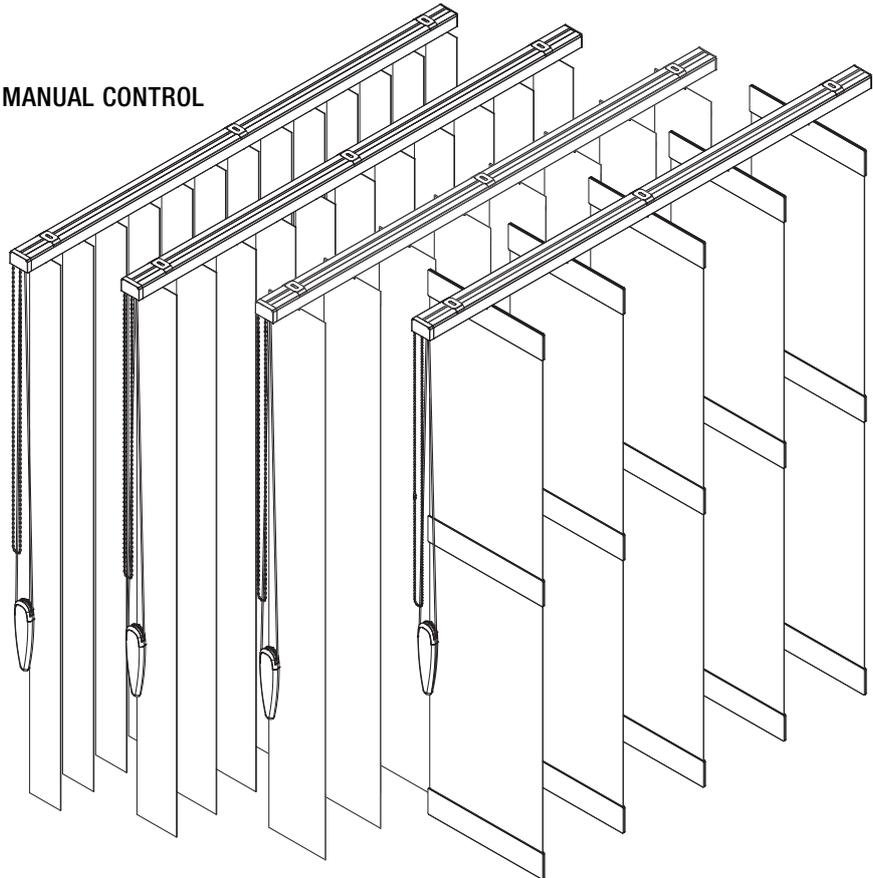
Aluminium and PVC are available in different types of perforations (Multivision™) or plain in a range of colours. Screen/fabric vanes are also available in a variety of openness factors (OF) and colours. Screen fabrics made of Enduris™ Glass Core and fabrics made of Trevira CS are certified Fire Retardant, according to M1 and B1.

CONNECTION SLATS AND VANES

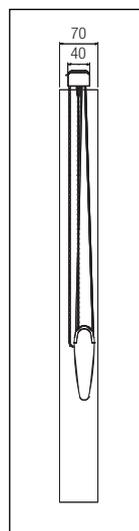
The slat-hooks are made with durable plastic. PVC and aluminium slats are directly hooked into the slat hooks. Fabric vanes are fitted with a slat carrier, that is hooked into the slat hooks.

Vaness have a sealed-in bottom plate, or a chain linked bottom plate in a pocket. The bottom plate can be linked or unlinked sealed in. The linkage can be both a plastic or a brass ball chain. The outside vanes are weighted down by an extra loading piece to prevent the vanes from hanging inward due to the bottom linkage. Fabric vanes are weighted down with a bottom plate. Aluminium vanes can be linked by metal chains (optionally).

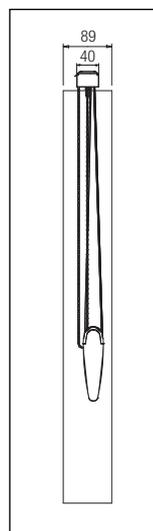
MANUAL CONTROL



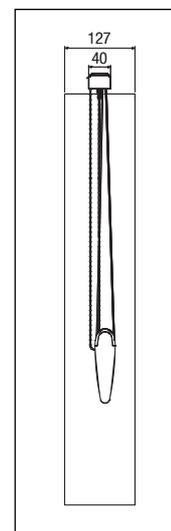
Vertical Venetian Blinds 70, 89, 127 and 250 mm



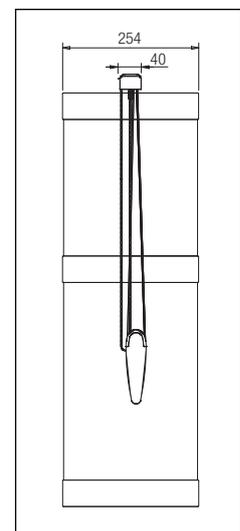
70 mm
- Aluminium



89 mm
- Aluminium
- PVC
- Screen / Fabric



127 mm
- Aluminium
- PVC
- Screen / Fabric



250 mm
- Screen / Fabric

Standard System

BRACKETS

Extension brackets, made from steel are used for wall mounting. The bracket can be extended to the required dimension. Clip-in brackets, made off spring steel are used for ceiling suspension and come in 3 versions:

1. for ceiling mounting or mounting in a recess track
2. for securing the head rail with a screw
3. for sloping systems and in applications where the rail might shift.

CONTROL OPTIONS

Tilting

A spline shaft (for straight head rails), or a cable shaft (for curved head rails), made of aluminium is used to tilt the slats. The slat travelers have a self adjusting mechanism to prevent the slats from damaging the slat hook. The track is fitted with a re-alignment mechanism to redirect wrongly tilted slats, applied by pulling through the end stop when tilting.

The ball chain is the control mechanism to tilt the slats. The shaft is secured on both sides with a speed nut and when necessary, the tilt action can be adjusted to a 4:1 drive for light tilting or to prevent slats from tilting too swiftly.

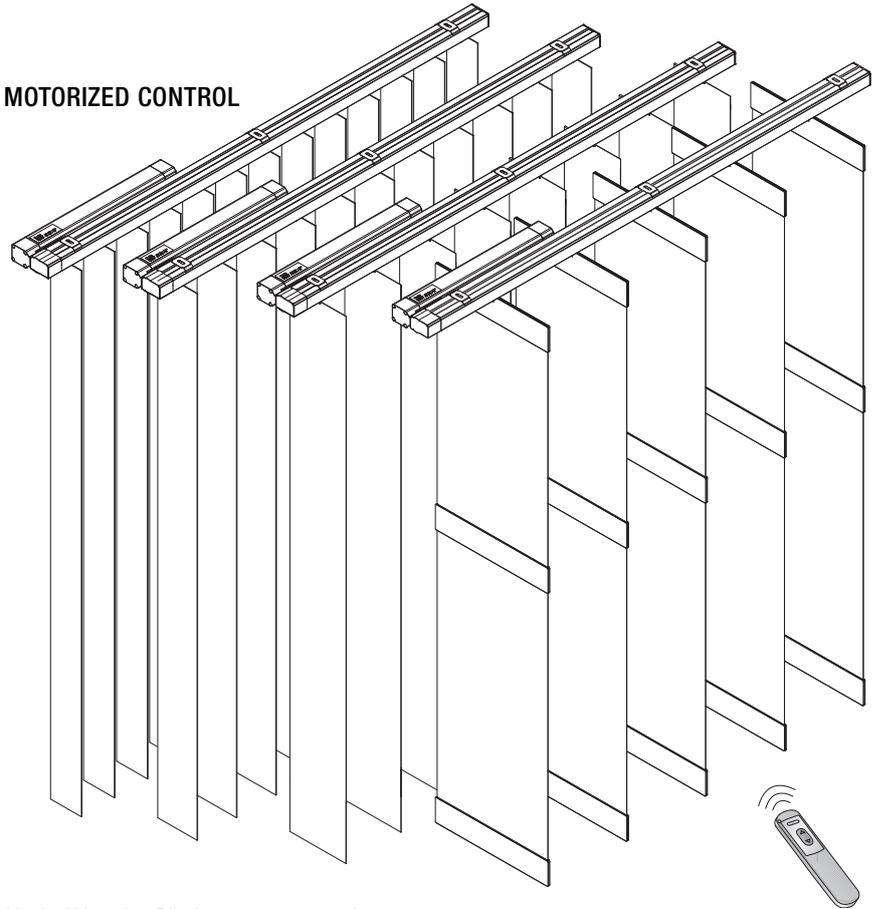
Monocommando

The monocommand blind consists of a straight, horizontally head rail, made from natural anodized or powder coated extruded aluminium, size 40 x 25 mm. A ball chain is used for both tilting, spreading and stacking. All movements can be controlled by a single chain.

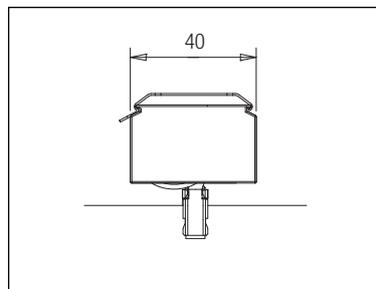
Motorized

The motor-controlled blind consists of a straight, horizontally head rail, made from natural anodized or powder coated extruded aluminium, size 40 x 25 mm, and a motor which controls tilting, spreading and stacking. The motor is placed behind the rail. Total size 81.1 x 25 mm.

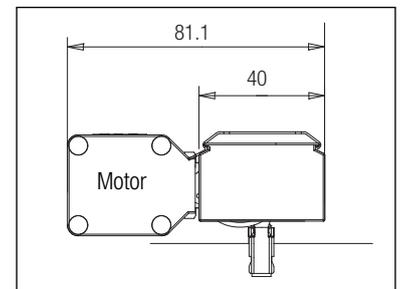
MOTORIZED CONTROL



Vertical Venetian Blinds 70, 89, 127 and 250 mm



Head rail manual control



Head rail electrical control

Tilt-Only

The Tilt-Only blind consists of a straight, horizontally head rail, made with natural anodized or powder coated extruded aluminium, size 40 x 25 mm. and a cord for spreading and stacking. The standard ball chain used for tilting is replaced by a remote controlled battery powered motor.

The Tilt-Only motor is available in a left and a right sided version and is installed at the return endcap.

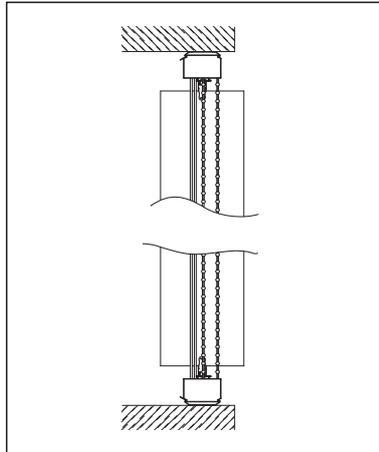
Special Systems

HEAD AND BOTTOM RAIL SYSTEM

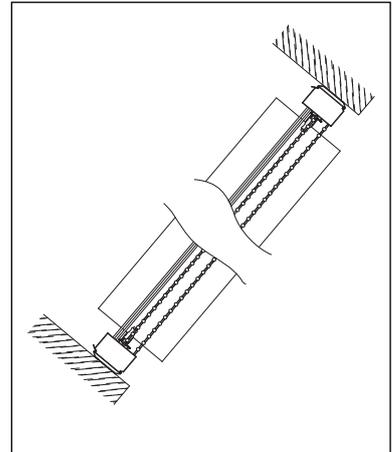
The head and bottom rail consist of a number of elements:

- straight, horizontally mounted head and bottom rail;
- slats and separate controls for tilting (ball chain) spreading and stacking (cord);
- control side can be left, right or left and right (two in one head rail).

The head rail is equal to the head rail used in a standard blind and the bottom rail is a mirror image of the head rail. To make sure that the slats are tightened between the head- and bottom rail, a slat traveller is used with a (spring loaded) slat hook. A cord weight is not used.



Head and bottom rail system (Vertical)

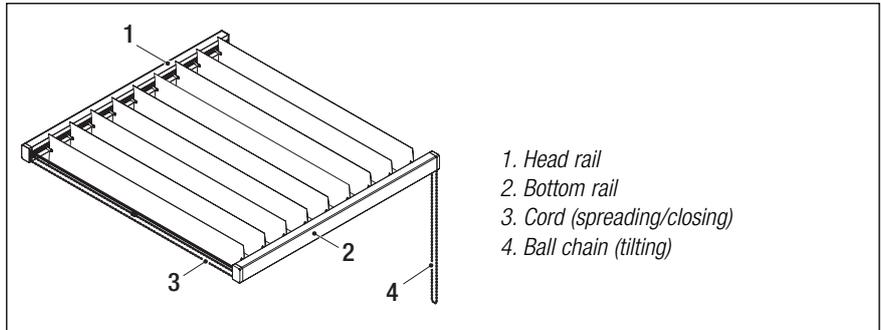


Head and bottom rail system (Under an angle)

CEILING SUSPENDED SYSTEM

The ceiling suspended blind is equal to the head and bottom rail blind except that it will be mounted horizontally and will have an extra ball chain for floor-standing tilt control.

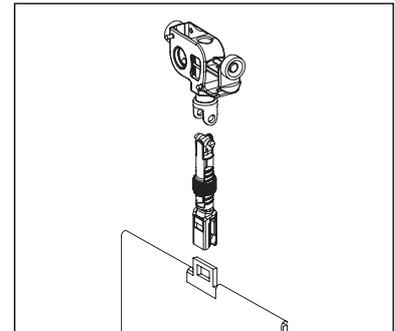
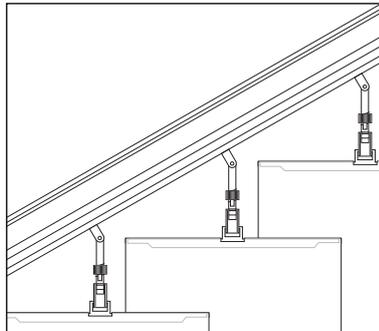
The ball chain and the cord are situated on one side. On the other side is the extra ball chain for the floor-standing tilt control. For spreading and stacking only the cord can be used.



1. Head rail
2. Bottom rail
3. Cord (spreading/closing)
4. Ball chain (tilting)

SLOPE SYSTEMS

The slope blind consists of a straight head rail, made from natural anodized or powder coated extruded aluminium, size 40 x 25 mm, mounted under an angle, slats with different lengths. The blind is tilted by a ball chain, spreading and stacking by cord or optional motor. The control set slope will hang straight down. A Hunter Douglas patented adjustable slope hook, made with transparent plastic is used to secure vane alignment on the window sill.

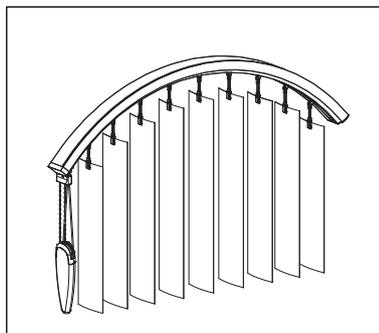


Adjustable slope hook

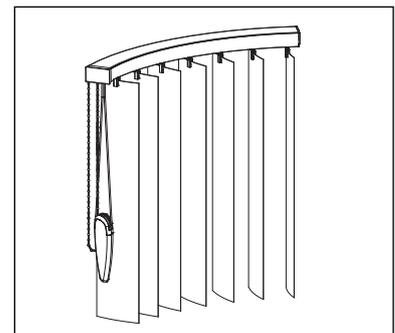
VERTICALLY/HORIZONTALLY CURVED SYSTEMS

The vertically curved blind has a curved head rail, made with natural anodized or powder coated extruded aluminium, size 40 x 25 mm, slats with different lengths with a ball chain for tilting and a cord for spreading and stacking. The control set slope will hang straight down.

(Not available in 250 mm slats)



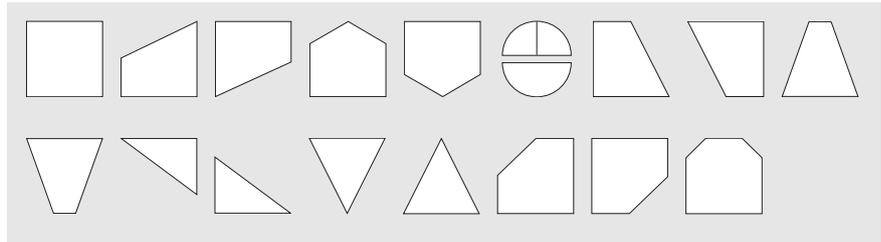
Vertically curved



Horizontally curved

Special Systems

SPECIAL GEOMETRICS

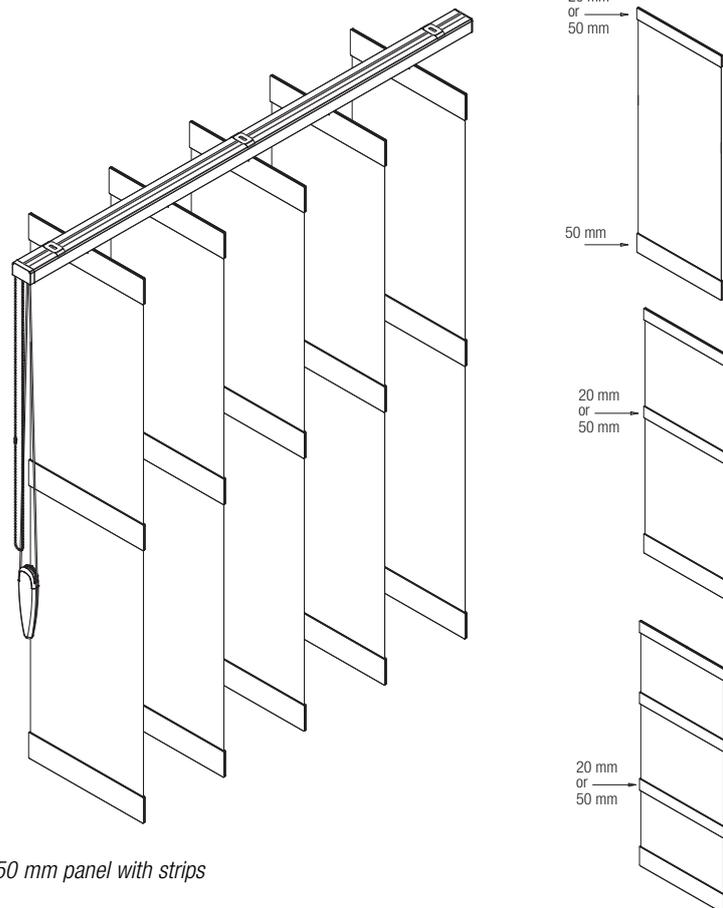


250 MM PANEL

A straight horizontal head rail, made with natural anodized extruded aluminium, size 40 x 25 mm. Manual operated by a metal ball chain for tilting and a cord for spreading and stacking. The control side can be left, right or left and right. Optional: motorized operation

The 250 mm wide panels, made of certified Fire Retardant Enduris™ Glass Core screen fabrics or Trevira CS fabrics can be finished with aluminium or wooden strips, widths 20 or 50 mm.

The strips are fixed at the top and bottom of the vane and a maximum of 2 additional strips can be placed in the middle section of the panel. The colour of the head rail is natural anodized aluminium.



250 mm panel with strips

Finishes & Special Coatings

LIGHT CONTROL

Multivision™ Concept

The perforation patterns or openness factors of the Enduris™ Glass Core screen fabrics, aluminium and PVC vanes are an ideal solution for optimal daylight regulation and light transmission throughout the building.

The materials are available in a range of perforation combinations.

SPECIAL COATINGS

Antibacterial

The HunterDouglas® PVC collection offers 3 materials (2416, 2417, 2418) in 89 mm vane width, which have built-in antimicrobial protection, that will keep the vanes cleaner and fresher throughout time; the antimicrobial protection will inhibit the growth of bacteria and mold that can cause stains, odours and deterioration.

Metalized

The aluminium layer on the backside of the screen fabric improves the solar energy performance. It keeps the heat outside during summer and reduces the loss of heat during winter, due to reflecting aluminium layer.

Dimensions of Systems

SIZE LIMITATIONS

Type	Angle (degrees)	Max. Width (mm)	Min. Height (mm)	Max. Height (mm)	Min. Radius (m ²)	Max. Surface (m ²)	Max. Weight (Kg)
Standard Blind (70, 89, 127 and 250 mm)							
Standard	-	7000	300	4000*	-	28	20
Slope Blind							
<i>Fabric / Screen</i>							
89 mm	0 - 20	5000	300	4000	-	15	5.5
	20 - 30	4500	300	3000	-	10	4.5
	30 - 40	3500	300	2750	-	6	3
	40 - 55	2500	300	2500	-	3	2
127 mm	0 - 20	5000	300	4000	-	15	5.5
	20 - 30	4500	300	3000	-	10	4.5
	30 - 40	3500	300	2750	-	6	3
	40 - 55	2500	300	2500	-	3	2
Aluminium							
70 mm	0 - 20	5000	300	2600	-	13	3.9
	20 - 30	4500	300	2600	-	10	3
	30 - 40	3500	300	2600	-	6	1.8
	40 - 55	2500	300	2500	-	3	0.9
89 mm	0 - 20	5000	300	4000	-	15	3.9
	20 - 30	4500	300	3000	-	10	3
	30 - 40	3500	300	2750	-	6	1.8
	40 - 55	2500	300	2500	-	3	0.9
PVC							
89 mm	0 - 20	5000	300	3000	-	7.5	7
	20 - 30	4500	300	3000	-	5	4.5
	30 - 40	3500	300	2750	-	3	2.7
	40 - 55	2500	300	2500	-	1.5	1.5
127 mm	0 - 20	5000	300	3000	-	7.5	7
	20 - 30	4500	300	3000	-	5	4.5
	30 - 40	3500	300	2750	-	3	2.7
	40 - 55	2500	300	2500	-	1.5	1.5
Head an bottom rail (HBR)							
89 mm	0 - 20	4000	400	4000*	-	12	5
	20 - 30	4500	400	3000	-	13.5	5

* Depending on recommended length of slats or fabric.

INDICATION SINGLE STACK

Blind width (cm)	70 mm	89 mm	127 mm	250 mm
100	19	17	14	-
200	33	28	22	22
300	47	39	29	25
400	61	50	36	29
500	75	61	43	33
600	89	72	50	37

Dimensions of Systems

SIZE LIMITATIONS

Type	Angle (degrees)	Max. Width (mm)	Min. Height (mm)	Max. Height (mm)	Min. Radius (m ²)	Max. Surface (m ²)	Max. Weight (Kg)
Ceiling (70, 89, 127 and 250 mm)							
Standard	-	3000	300	1800	-	5.4	3
Monocommand							
89/127 mm	-	4500	300	3500	-	15.75	5
Motor							
<i>Fabric / Screen</i>							
89 mm	-	7000	300	3500	-	24.5	15
127 mm	-	7000	300	3500	-	24.5	15
<i>Aluminium</i>							
70 mm	-	6000	300	2600	-	15.6	15
89 mm	-	6000	300	4000	-	24	15
<i>PVC</i>							
89 mm	-	6000	300	3000	-	18	15
127 mm	-	6000	300	3000	-	18	15
Tilt-only							
<i>Fabric / Screen</i>							
89 mm	-	5000	300	4000	-	20	15
127 mm	-	6000	300	4000	-	20	15
<i>Aluminium</i>							
70 mm	-	4000	300	2600	-	10	15
89 mm	-	5000	300	4000	-	10	15
<i>PVC</i>							
89 mm	-	5000	300	4000	-	15	15
127 mm	-	6000	300	4000	-	18	15
Curved Vertical							
70 mm	-	5600	300	2600	500	8	4
89 mm	-	5600	300	3500	500	15	4
127 mm	-	5600	300	3500	500	20	4
Curved Horizontal							
70 mm	-	5600	300	2600	550	8	5.5
89 mm	-	5600	300	3500	550	15	5.5
127 mm	-	5600	300	3500	550	20	5.5

INDICATION DOUBLE STACK (DIMENSIONS PER STACK)

Blind width (cm)	70 mm	89 mm	127 mm	250 mm
100	12	11	10	-
200	19	17	15	-
300	26	22	18	18
400	33	28	22	20
500	40	33	25	22
600	47	39	29	24

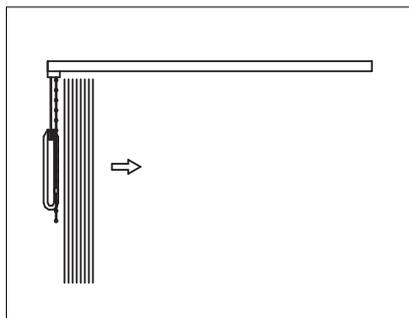
Closure Options

CLOSURE OPTIONS AND VANE BUNDLE

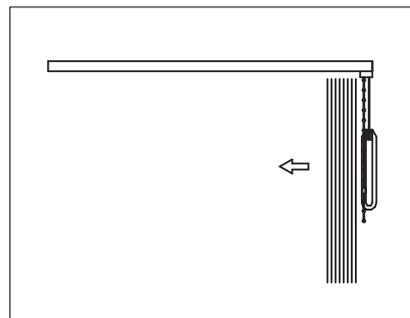
Vertical Blinds can be opened from left to right or vice-versa, towards the middle or from the middle towards the ends of the track. An indication of the width of the vane bundle for an opened blind is shown in the table (on the previous pages).

The operation cord (spreading) and ball chain (tilting) can be:

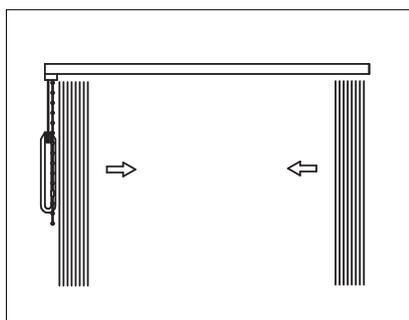
- Left / left
- Left / right
- Right / right
- Right / left



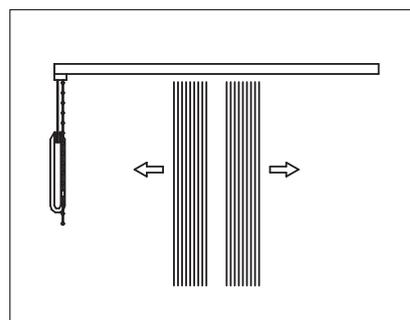
Left



Right



Split

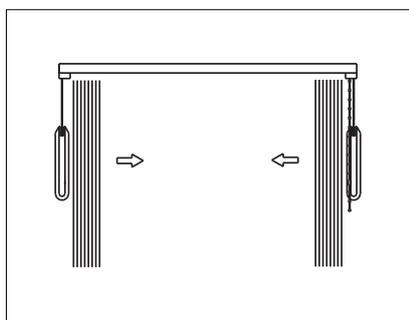


Middle

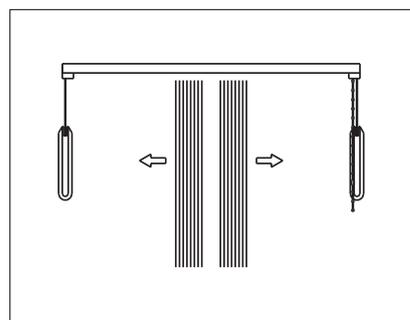
TWO BLINDS MOUNTED ADJACENTLY WITH OVERLAP/TWO-IN-ONE BLIND

In order to bridge large widths two blinds can be mounted against each other in such a way that they give the impression of one, uninterrupted track. The vanes can be made to overlap between the blinds, so that no interruption is visible when the blind is closed.

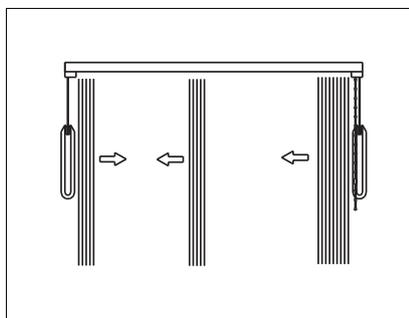
It is also possible to mount two separately operated blinds within one integrated head rail. This is an ideal solution for covering for instance, a door and window next to each other. The illustration shows the various closing options.



Left and Right



Middle



Combi Split

Impressions

*Project : Office building CGE&Y
Location : Utrecht, the Netherlands
Product : HunterDouglas® Window Coverings:
type Vertical Venetian Blinds, PVC
Quantity : 3000 pc
Special : Recessed track
Architect: veenendaal Bocanet + partners*



*Project : Media One
Location : Dubai, U.A.E.
Product : HunterDouglas® Window Coverings:
type Vertical Venetian Blinds, 89, 127
and 250 mm Panel
Quantity : 550 m²
Special : 250 mm Panel with wood strip, screen
Designer: LW Design*



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.

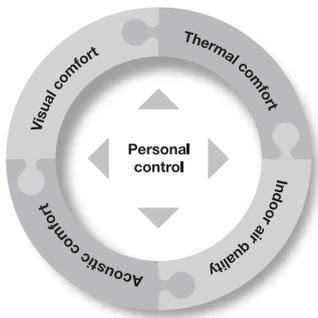
Seemingly small increases of as little as 1% in productivity could result in a much higher payback than the reduced cost of energy.

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.

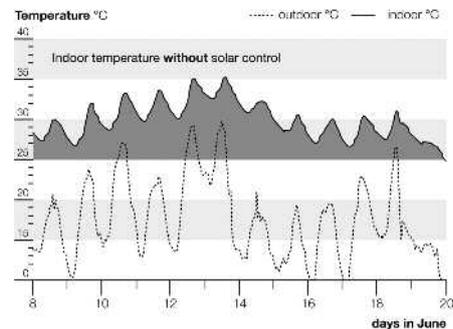
THERMAL COMFORT

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.

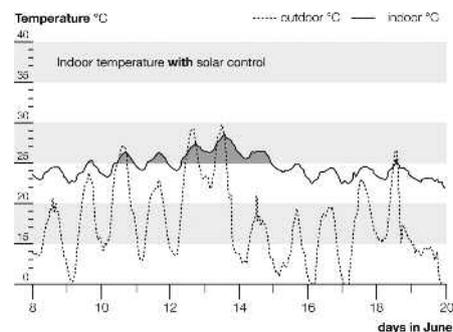
In colder climates, External Window Coverings will enable the use of solar energy to help heat the building in winter. This is often overlooked when solar control glass is selected for heat control.

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

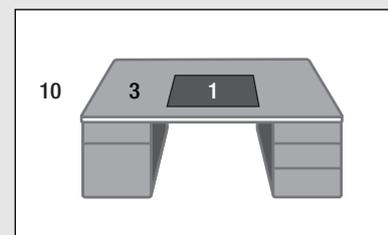
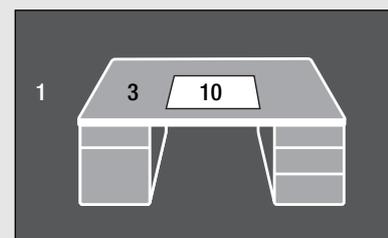
Interior Window Coverings enable the use of free renewable daylight to the maximum extent, so significantly reducing the need for artificial lighting and avoiding the associated cooling loads.

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.



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

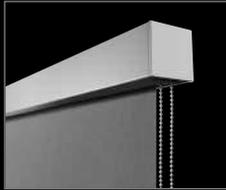
WINDOW COVERINGS



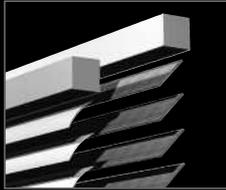
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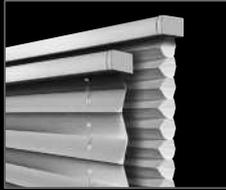
Roller Blinds



Venetian Blinds



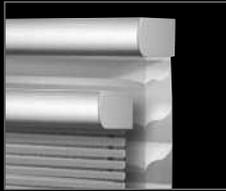
Plissé & Duette® Shades



Vertical Venetian Blinds



Facette® & Silhouette®



External Venetian Blinds



External Roller Blinds



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- Denmark
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- Ireland
- Italy
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- Norway
- Poland
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- Romania
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- Serbia
- Slovakia
- Spain
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- Switzerland
- Turkey
- Ukraine
- United Kingdom
- Africa
- Middle East

- Asia
- Australia
- Latin America
- North America

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