

## Vertical blinds





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## Sun protection and design

Make your living space more attractive with vertical blinds by KADECO – individually designed according to your wishes. Whether straight, slanting or curved – vertical blinds are variable and extremely versatile.

Vertical blinds offer outstanding glare protection and feature sophisticated technology. The chain provides an easy and infinitely adjustable means of controlling how much light you let in. KADECO combines optimum function with up-to-date designs for window decoration with character – in a creative and modern way.





## Modern living and working

Translucent, elegant plain-colour fabrics emphasise innovative architectural features through their linear style. To match commercial furnishings, the selection of flame-resistant slats was greatly expanded, and the topic of fibreglass, screen and black-out slats with coloured backs has been demonstrated in a new light. Billed under the slogan "Fabrics to take hold of", the elegant jacquard Harmony designs are not only visually interesting but also irresistible to touch. Under the theme of Whisper, puff prints applied to the fabrics give them a three-dimensional character.

Besides living space themes, our marketing experts have also attached great importance to functional properties: around two thirds of the fabrics are flame-resistant and thus ideal for the commercial sector, for example PES fabric, which in a pearlescent coated version offers outstanding glare protection in the workplace.

Live smart, work efficiently: create the perfect lighting and working conditions in a pleasant atmosphere.







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## Wide range of applications

KADECO vertical blinds can be used variably, either in front of the window or in the window niche. Vertical blinds are particularly advantageous in front of large window façades in the residential and commercial sectors.

### Straight vertical blinds (LG)

Standard vertical blinds for rectangular windows installed horizontally can be combined with all operating options and versions. Comfortable OnLine technology virtually eliminates operating errors. Slats can be mounted on two overlapping systems to create a single unit for large windows.



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All-rounder



The many different options for architectural and decorative design which vertical blinds offer are particularly fascinating. Today you need a separate area, but tomorrow you need the whole area of the room? Vertical blinds can also be used flexibly as temporary room dividers, thus allowing different utilisation concepts for living and office spaces.

Besides optimum light regulation, vertical blinds make every window and thus every room appear extended and higher, thanks to the vertical arrangement of the slats.



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## Change of colour

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Let your creativity run wild by allowing us to produce a blind, slat for slat, to suit your own colour taste. Whether at home or in commercial rooms, with a change of colour you can design your own personal one-off product.

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### Ceiling mounting rail

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With a mounting profile, slat rails can be installed flush in the ceiling. The technology is subtly unobtrusive.





## Vertical blinds – special solutions



Vertical blinds can also be used under sloping ceilings or in a conservatory. For example as a slope system under the roof slope or as a tensioned ceiling unit under glass roofs.

### Slanted vertical blinds (LS)

KADECO slanted or sloped systems are an elegant means of decorating a wide range of gabled challenges. The DuoLine version is generally operated with a chain for turning the slats and a pulling cord for moving them. The package is always formed on the highest side, while there is a free choice of operating side.

### Tensioned vertical blinds

#### With tensioned slats for ceiling mounting (LP)

Systems with tensioned slats are particularly suitable for the ceiling area in conservatories or fanlights. We recommend a motor-driven (EL) version for user-friendly operation.

#### With bottom rail for vertical mounting (LU)

Systems with an additional bottom rail and tensioned slats are particularly suitable in areas with a high rate of air circulation (air-conditioned areas, porches, etc.).



For slope systems, the package is always formed at the highest point.







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## Curved vertical blinds

KADECO curved systems blend perfectly into today's architecture. A computer-aided bending system adapts the guide rails to the radius required on site. Curved vertical blinds are operated using the comfortable DuoLine technology or electrically.

### Horizontal curve (LHB) and vertical curve (LVB)

Horizontally curved vertical blinds are used in bay windows.

Vertically curved vertical blinds are particularly suitable for gables, archways and round vault windows.





# Slat versions

By using different materials, KADECO vertical blinds can easily be adapted to the requirements of the room and its utilisation. Various finishes ensure that, among other things, they are highly insensitive to dirt or offer the best possible reflection of sunlight.

## Fabric slats

Most of the materials in our collection are textiles and are characterised by high rigidity, ensuring that the slats hang correctly. Coatings on the rear face ensure a high level of reflection of the sunlight, so that the rooms heat up less. Screen fabrics allow vision to the outside, even when the slats are closed, but at the same time offer effective protection from glare. You can see the exact properties of each individual quality in the product overview in this brochure.

The following slats will convince you with special properties, which is why they are included in separate swatch cards.



## Acoustic



Good sound insulation can significantly improve the quality of use of your rooms. This is where the "Acoustic" quality will convince you with excellent sound-absorbing properties.

## Aqua-Tex



Aqua-Tex slats are ideal for damp locations. The water and dirt-repellent polyester slats are coated with Teflon™. Even mould cannot penetrate the fabric, thanks to the fungicidal treatment.

## Level Green



Level Green fabrics extend the range more towards environmentally friendly products. By using recycled materials and fabrics, we conserve resources and protect the environment. The translucent polyester slats meet our high standards, in terms of quality and of design.



## PVC

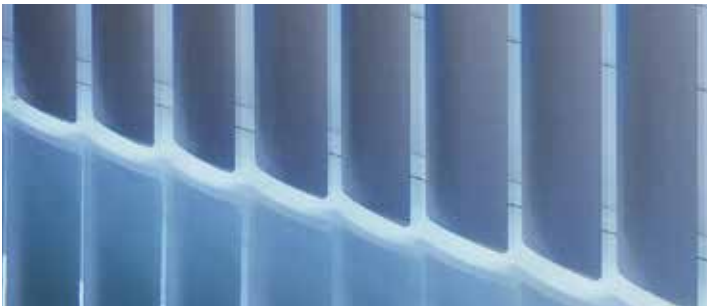


Antistatic PVC slats\* are insensitive to dirt, and can easily be cleaned with a damp cloth. They are frequently used in hygienically sensitive areas, in damp locations and for blacking out lecture rooms. The perforated models bathe the rooms in a pleasantly diffuse light, while retaining visibility to the outside.

Translucent PVC slats\*, i.e. slats which allow light to pass through them, provide a privacy shield without having to darken the rooms in which they are located. The slats discreetly filter incident light and underline the style of the furnishings with their cool appearance.

\*PVC and aluminium slats can be produced up to a maximum height of 300 cm.

## Aluminium



Aluminium slats\* with their concave form guarantee an unmistakable appearance in modern architecture. They are available in a width of 89 mm, are characterised by correct hanging properties and are easy to clean. Optionally, the free-hanging slats can be connected to each other at the bottom by means of individual chains.



# Operating options and colours

## OneLine (OL)

Vertical blinds are equipped with a user-friendly mono-chain operating mechanism as standard. The chain is used both to open and close the system, and to turn it. The operating mechanisms can be installed on the left or right and combined with the usual types of opening (see Technology section).



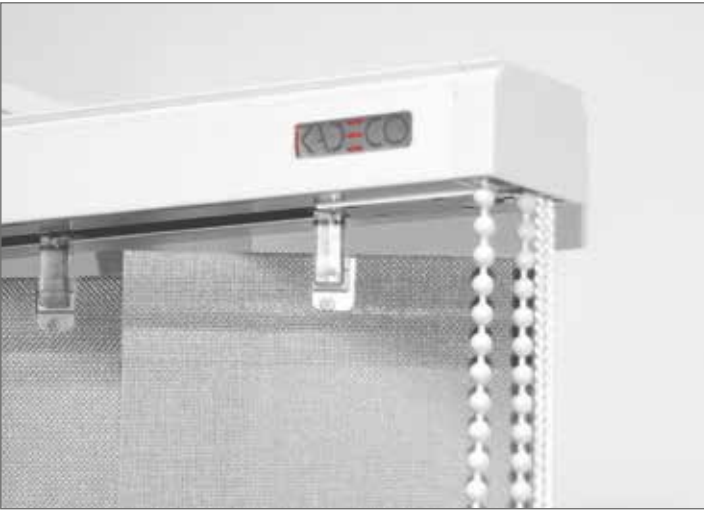
## Operating rod (BL)

The slats can not only be opened and closed with the operating rod, but also turned.



## DuoLine (DL)

Curved, sloped and ceiling systems are equipped with a conventional chain and cord operating mechanism as standard. The pulling cord is used to open and close the system, and the chain to turn the slats. Here again, the operating mechanism can be positioned on the left or right. For straight vertical blinds, DuoLine operation is an alternative to the OneLine version.



## ElectricLine (EL)

Practically all vertical blinds can be power-operated using low-voltage technology. The various activation options, using buttons, remote controls, timer switches, etc. make the system extremely easy to operate. Please do not hesitate to ask us for advice on the specific requirements for your home or property.



## Colour schemes



**Guide rails**  
The guide rails for vertical blinds are available in white or grey as standard. Special RAL colours are also possible with our highly modern powder coating installation. This is particularly interesting for commercial properties, where the colour of the guide rails is to be adapted to the frame colour of the window façades.



White, RAL 9016



Anodised E6/V1



**Operating chains/cords**  
The operating chains and cords for the vertical blinds are supplied in white.

## Weighting plates and spacer chains

The standard versions of the vertical blinds are supplied with weighting plates and spacer chains. Vertical blinds are optionally available with suspended weighting plates without spacer chains, or with welded weighting plates.



Weighting plates with spacer chains are available in three colours for slat widths 89 mm and 127 mm.

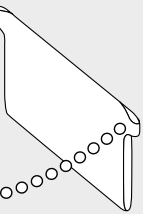


Suspended weighting plates without spacer chains are available for slat widths 89 mm, 127 mm and 250 mm.

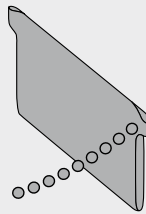


Enclosed weighting plates without spacer chains are optionally available for slat widths 89 mm and 127 mm at extra charge.

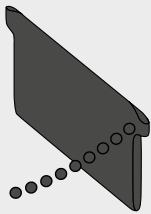
## Colours for weighting plates and spacer chains



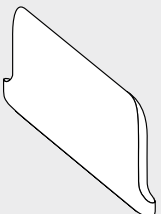
White



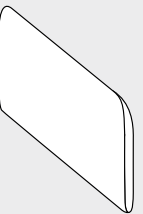
Grey



Black

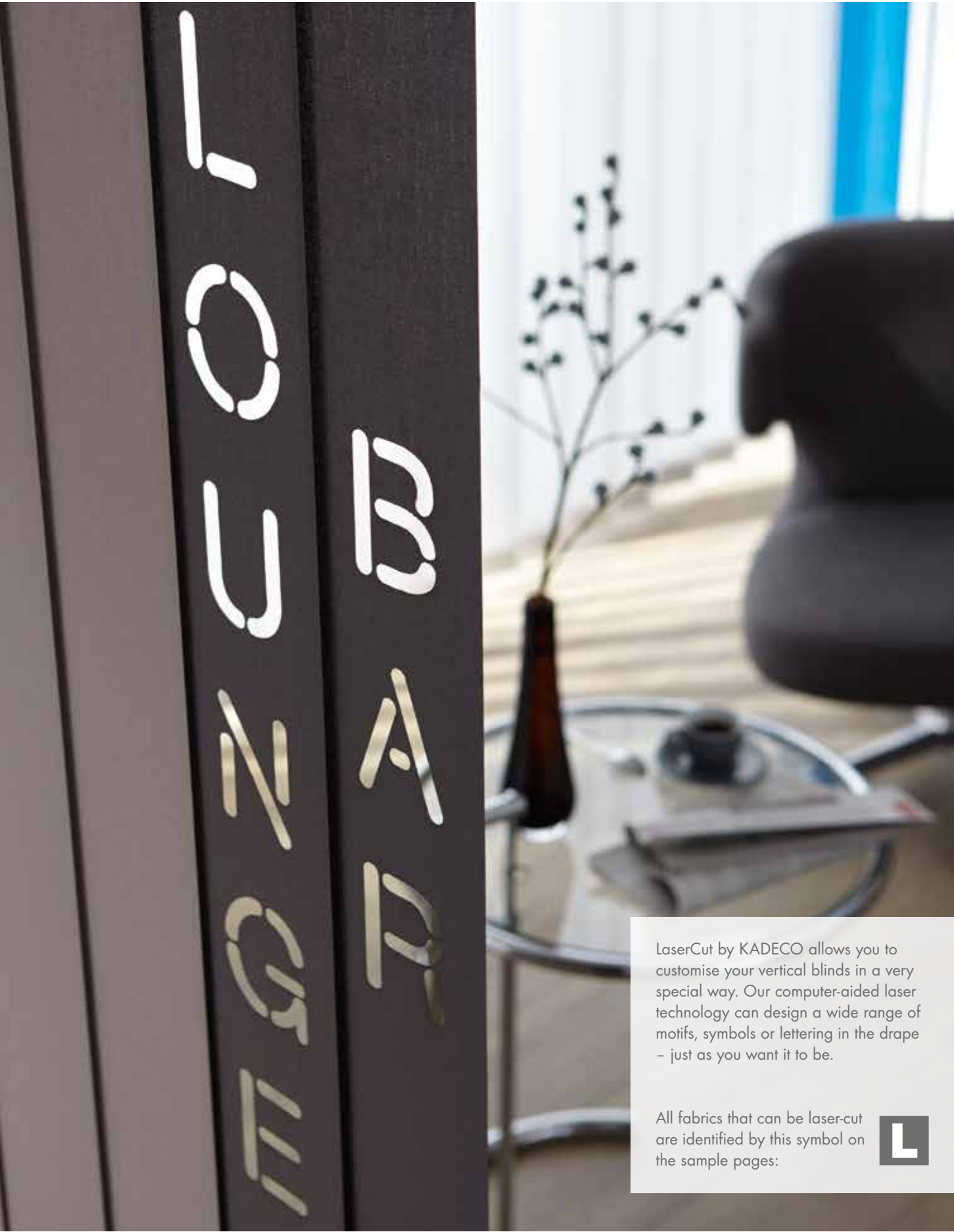


White

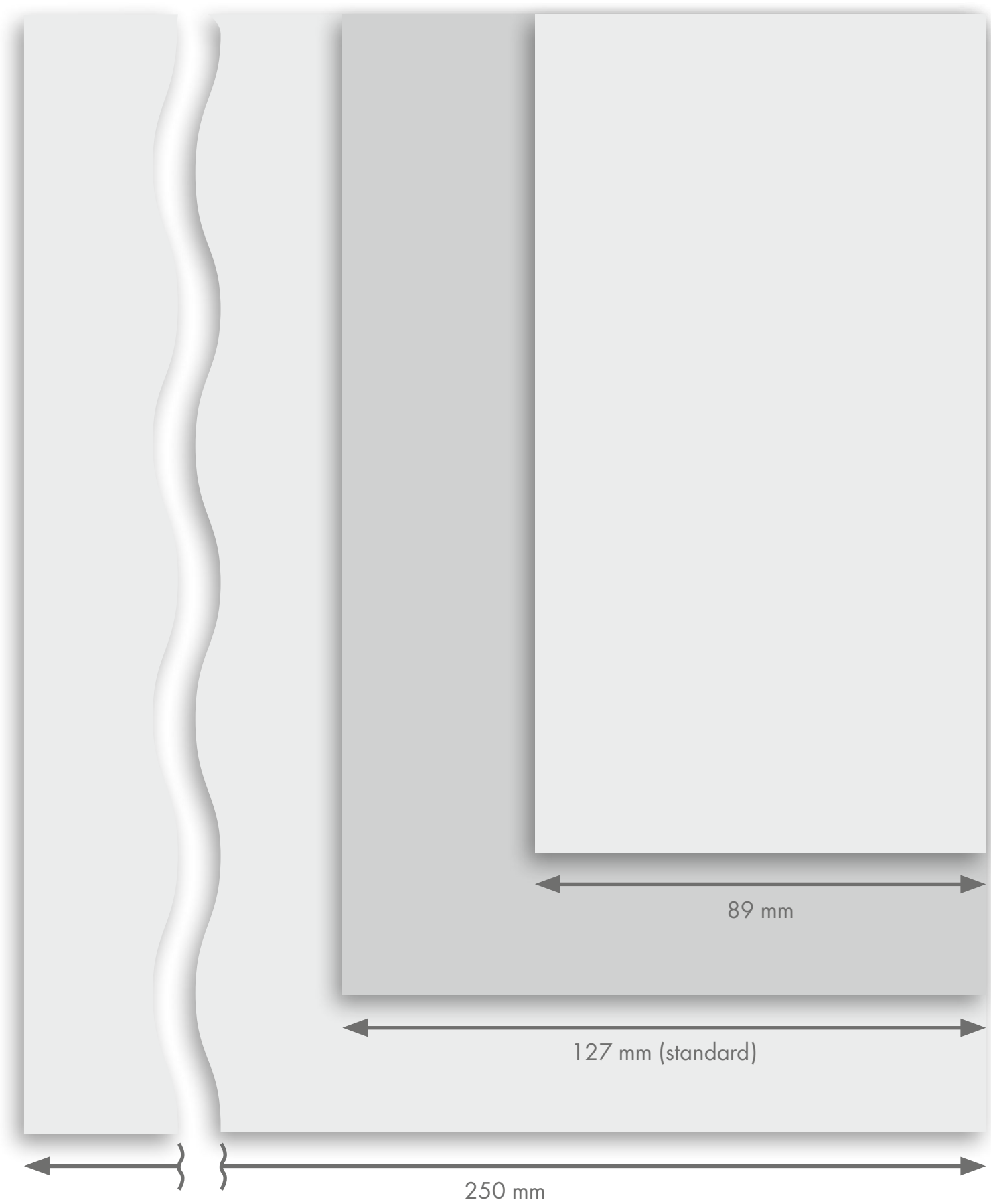


White





The available slat widths depend on the fabric used.  
Please note our information on this on the sample pages.





# Fabric properties



### Teflon® finish

KADECO fabrics with Teflon® finish ensure invisible protection against soiling from a large number of household substances. Teflon® remains just as effective after cleaning and has been dermatologically tested. We recommend the use of these fabrics in kitchens and cafeterias, for example.



### ÖKO-Tex Standard 100

Fabrics bearing this label meet a whole range of human ecological requirements. Strict limits are imposed regarding the substances they contain and any additional features, for example. The “Öko-Tex Standard 100” is a uniform global testing and certification system that covers the entire production chain from the sourcing of raw materials and processing right through to disposal. It is subject to constant scrutiny.



### Q mark

The Q mark awarded by the German association for interior privacy and sun protection (VIS, Verband innenliegender Sicht- und Sonnenschutz) guarantees that the material properties and functional capabilities are monitored on the basis of the latest technical standards. Stress tests are performed by independent, impartial bodies.



### Pearlescent finish

KADECO’s pearlescent-coated slat fabrics offer multiple benefits: the coating ensures a particularly high level of reflection of light and heat radiation. We particularly recommend these fabrics for large areas of glass as well as for offices or conservatories.



### Aluminisation

Aluminised fabrics not only have particularly good reflection properties; they are also available with varying degrees of transparency. In addition to protecting against glare and heat, they also maintain visibility to the outside.



### Aqua-Tex

The water and dirt-repelling finish on both sides makes Aqua-Tex fabrics particularly suitable for damp locations. Even if the blind comes into direct contact with water, mould cannot penetrate the fabric, thanks to the fungicidal treatment.



### Antimicrobial protection

Vertical blind fabrics featuring permanent antimicrobial protection are an effective precaution, particularly in locations where hygiene is of the utmost importance, such as doctor’s surgeries, hospital wards, etc. They prevent the growth of various types of bacteria and fungus (e.g. in damp rooms), thereby significantly reducing the risk of infection.



### Sound absorbing

In order to improve indoor acoustics, we offer sound-absorbing fabrics that have measurable effects and which are certified in sound-absorbing classes according to DIN EN ISO 11654.

Material abbreviations	
ALU	Aluminium
CO	Cotton
FG	Fibreglass
PES	Polyester
PET	Polyethylene terephthalate
PVC	Polyvinyl chloride
Trevira CS	Trevira CS



# Care information

KADECO slats are resistant to dust and dirt because of the special coating that is applied to both sides. However, should you still wish to clean your blind, you will first need to remove the weighting plates and spacing chains from the drape. It is essential that you follow our specific care instructions by referring to the cleaning symbols.

Mechanical parts of electrical and winding units must not come into contact with water! Never use abrasive or alkaline detergents to clean glass or window frames. We cannot accept any liability for fabric damage caused by condensation, detergents or insects soiling the fabric. Nor can we accept any liability for any consequential damage due to incorrect handling of our products.



### Brushing

Soiling (e.g. dust) can generally be removed with a soft clothes brush or carefully vacuumed off using a brush attachment.



### Damp cloth

To wipe the individual slats with a damp cloth, place them on a smooth surface. Wipe the slats carefully on both sides with a soft cloth which has been moistened with mild detergent.



### Hand wash

You can easily clean KADECO slats that are suitable for hand washing yourself. Please note that you must first remove the weighting plates and spacing chains from the vertical blind (if welded weighting plates are present, they can be left as they are). Clean the slats as follows:

- Remove the curtain of slats and gently roll 2 or 3 slats up together, without bending them.
- Place the rolls in a vessel containing a mild detergent solution (approximately 40 ml of detergent in 10 l of water) at a temperature of around 30° C for five to ten minutes. Then immerse them in clean water several times, or rinse them through, and leave to drip dry. Important: do not bend or wring the slats!
- Re-hang the slats whilst they are still wet and allow them to dry with the window open.



### Machine wash

Please note that you must first remove the weighting plates and spacing chains from the vertical blind. If welded weighting plates are present, please follow the “Hand wash” instructions.

- Remove the slats and roll a maximum of 10 up together, without bending them.
- Carefully put the roll in a curtain washing bag and use mild detergent to wash one roll at a time, with the washing machine on a setting no hotter than 30° C. Important: do not use a spin cycle!
- Once they have been washed, hang the slats back into the rail whilst they are still wet. Place a towel underneath the slats to catch drips and allow them to dry with the window open.
- Attach the weighting plates and clip on the chain.

### Ironing

We recommend that you iron only our uncoated fabrics, i.e. all Trevira CS qualities with the exception of the aluminised fabrics. Please use a steam iron at the lowest heat, with a cotton cloth between the slat and the iron, but only after consultation with us.





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## Light properties

The climate in a room and the optical effect of a vertical blind are dictated by the fabric's response to incident sunlight. For the purpose of making technical estimates, we assign percentage light and solar values to each individual fabric.

### Photometric values

In physics, the visible range of the spectrum between 380 and 780 nm is defined as light. The reflection, transmission and absorption values indicated below always add up to 100 %.



#### Light reflection

The degree of light reflection indicates the percentage of visible light that is reflected to the outside.



#### Light transmission

The degree of light transmission of a sunshade indicates the percentage of visible light that is transmitted from the outside to the inside.



#### Light absorption

The degree of light absorption indicates the percentage of visible light that is absorbed by the sunshade.

### Energy efficiency

The effect of the sunshade on the system comprising glazing and interior sun protection is defined using two key technical indicators: total energy transmission value ( $g_{total}$ ) and reduction ( $F_c$ ) factor.



#### Total energy transmission value

The total energy transmission value ( $g_{total}$ ) indicates how much solar energy can penetrate the overall system of glazing and sun protection into the room. If the aim is to save cooling energy in summer or prevent the room from heating up, then the total energy transmission value must be minimised. The sunshade should therefore reduce total transmission – the total energy transmission value should be as low as possible.



### Solar values

Solar radiation in both the visible and the invisible ranges must be considered when calculating the total energy transmission value. These values differ compared to visible light.



#### Radiation reflection/Degree of solar reflection

The degree of radiation or energy reflection of a sunshade indicates the radiation across the entire solar spectrum that is reflected by the sunshade to the outside.



#### Radiation transmission/Solar transmission

Solar transmission indicates the share of total radiation (light and infrared and UV) that is transmitted from the outside to the inside.



#### Radiation absorption/Degree of solar absorption

The degree of radiation or energy absorption indicates the share of radiation across the entire solar spectrum that is absorbed by the sunshade.



#### Reduction factor

The second (alternative) measuring criterion for assessing sun protection fabric is the reduction ( $F_c$ ) factor. It indicates the extent to which the sun protection fabric reduces the energy input to the overall system. The value is determined by comparing the energy input with and without sunshade. Since the energy input should be as low as possible, the reduction of energy input should be as great as possible. In this case, the reduction factor should therefore be as great as possible.

## Child-safe operation as per EN 13120

The European standard EN 13120 stipulates special requirements in respect of the child safety of sunscreens. The aim is to minimise the risk of a small child being strangled by operating chains or cord loops. If a product is fitted with such operating mechanisms, a minimum floor clearance (generally 150 cm) and the use of special safety components are mandatory.

As a responsible manufacturer, we naturally make very sure our products comply with the standard, and offer child-safe operating mechanisms for all of our models. When selecting your KADECO sunsreen, please bear in mind any local constraints in respect of child-safe and convenient operation. Further information is available at [www.kadeco.de](http://www.kadeco.de), from your local industry association (e.g. in Germany: ViS - Verband innenliegender Sonnenschutz) or your national standards body.



## Commercial buildings and offices

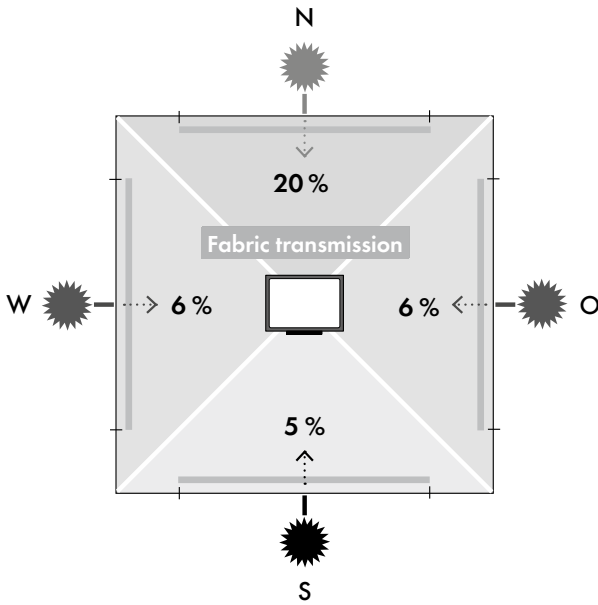
Architects and planners are well aware of the benefits of decorative and flexible sun protection measures - providing as they do privacy, not to mention glare and thermal protection. Special Trevira CS fabrics that look like silk and textile screen fabrics are characterised by the back of the fabric being aluminised. These high-tech fabrics are available in modern colours befitting a commercial setting and come in flame-resistant versions, thus contributing to a pleasant working environment.

### Shading for workstations

Nowadays, computers and monitors form an integral part of any modern work environment. Various laws and ordinances regulate how workstations should be designed to reflect the latest findings on employee health maintenance. In Germany, the regulations governing computer workstations have been in force since 12/08/2004 and were derived from the EU regulation adopted in 1990. The following stipulates standards and regulations of significance for employers:

- Ergonomic requirements for office work with visual display terminals ISO 9241-6
- German workplace ordinance (Sections 7 and 9)
- German workplace guidelines
- German employers' liability insurance association information (BGI 827/Prevention)

In summary, these standards dictate that all windows must be fitted with suitable and adjustable glare protection devices to prevent annoying glare and reflection on screens. The adjustability of the systems must ensure visibility to the outside, at least for some of the time. The maximum transmission values to the corresponding compass direction must be taken into account in the interests of ensuring as much daylight as possible, with as little glare protection as necessary.



### Further issues to be addressed when designing workstations:

- Position/orientation of screens (90° angle to the window)
- The colour of the glare protection must match the room environment
- White or very pale fabrics can lead to internal reflections
- Subdued, matt colours and surfaces produce the best results
- Darkening glare protection devices may necessitate the use of artificial light

You will find more practical information about implementing the EU directive in the brochure published by the German association VIS (Verband innenliegender Sicht- und Sonnenschutz e. V.).

### Note:

This information does not claim to be complete, and does not exclude any other equivalent technical solutions that are equally safe. The information provided above is based on case studies according to information from the VIS and is used merely for determining the necessary transmission values. In certain unfavourable situations, additional externally located glare protection may be necessary.



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