



## EXTERNAL VENETIAN BLINDS AND ROLLER SHUTTERS



**HOME**  
PRODUCTS FOR HOME

# COMPLETE DOOR AND WINDOW SOLUTIONS FROM ONE MANUFACTURER

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At KRISPOL, we offer consistent colours for all door and window joinery elements. External covers can perfectly match windows frames and garage and entrance doors. Thanks to the rich palette of colours, all components can be perfectly adapted to the requirements and function of the building. We are able to implement any sophisticated and creative visions of our clients to help fulfil their dream of a perfect home.

## PERFECT TIMING FOR DECISION

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External venetian blinds and external roller shutters, like any other construction product, must meet specific building requirements. Appropriate preparation of openings should primarily provide:

- Sufficient space for assembly
- Proper isolation of the contact points of the product elements with the wall
- Free access for service inspections

Each type of external venetian blinds or roller shutters requires a different preparation procedure, so ask for support the Technical and Commercial Advisor in your Show Room to determine conditions for a specific investment.





# EXTERNAL VENETIAN BLIND OR ROLLER SHUTTER?



Nowadays, almost all investors decide to install window protection. External venetian blinds and roller shutters are the most popular solutions. The main function they play is protection against sunlight and ensuring privacy in rooms. Both products can be installed outside the window, which does not interfere with the interior design or functionality.

Depending on the solution selected – they may also perform other important functions, e.g. external roller shutters have excellent thermal insulation properties, while blinds help freely adjust the amount of light entering the interior.

**Before making any decision, it is worth considering what final effect we do expect.**



# EXTERNAL VENETIAN BLIND

It is worth learning more about blinds construction to better understand how they work. It is also practical to learn which components take into account when choosing particular types of blinds or their colours.

## BLIND FIXING KIT

A set of upper brackets on which the entire structure of the blind is mounted. Depending on the type, they are additionally equipped with extensions for mounting shields.

## ELECTRIC DRIVE

It transmits torque to the bearings winding the tape responsible for pulling up and down, and controls the angle of the slats. The motors can be controlled by wire or radio.

## TOP U-PROFILE (HEAD RAIL)

It houses a drive system consisting of an electric drive and tilting bearings.

## COVER

Depending on the type of blind and type of installation, it can be hidden under plaster or visible - then it can be varnished in one of the selected RAL colours.

## NOTIONS

A set of textile tapes and ladders ensuring proper placement of lamellas and proper movement of blinds. Depending on the shape of the slats, it is available in black or grey.

## VERTICAL TRACK

Made of aluminium and equipped with PVC gaskets ensuring proper slip and guiding of the slats. Depending on the type of blinds, mounted on retainers from the ground or full mounted to the woodwork. Available in RAL colours.

## SLATS

Made of aluminium and covered with varnish resistant to weather conditions. Depending on the system, they have a C- or Z-shaped cross-section (C80 and Z90). Available in 8 colours.





# DESIGN AND LIGHT CONTROL IN ONE

External venetian blinds effectively protect against sunlight, and excessive heating of the room. **The advantage of this solution is the ability to freely adjust the amount of light entering the interior** - all thanks to the changing angle of slats. In addition, they also protect against burdensome noise. This solution is designed for modern construction with large-size glazing. It fulfils its functions, and additionally plays an important role in finishing the entire building.

## COMFORT LIGHT

External venetian blinds are gaining popularity on the Polish market. This modern element adds **lightness to the building's structure**. They are mounted outside and designed for buildings with a large glazing area or glass facades.

In the case of energy-saving and passive buildings, large glazing is used on the south side exposed to excessive sunlight. Blinds protect against excessive sunlight, and also adds a sense of privacy.

It is worth noting that the blinds provide effective thermal protection and supports the operation of air conditioning systems. A thermal barrier, i.e. a mass of air that slows the heat exchange, is created between slats and glass. Thanks to this, the indoor temperature can be lowered **even by up to 10 °C at 35 °C outside**.

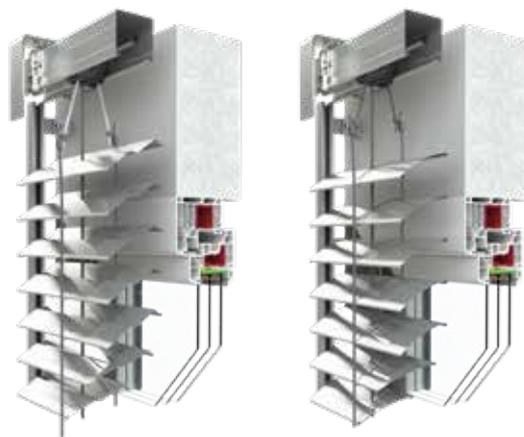


### SET OF ADVANTAGES

- Light and simple aluminium construction
- Protection and thermoregulation
- High class of varnishing coatings
- Smooth control



# AVAILABLE SYSTEMS



SERVICING FROM THE OUTSIDE OF THE BUILDING

**STANDARD BLIND**  
WITH C80 / Z90 PROFILE

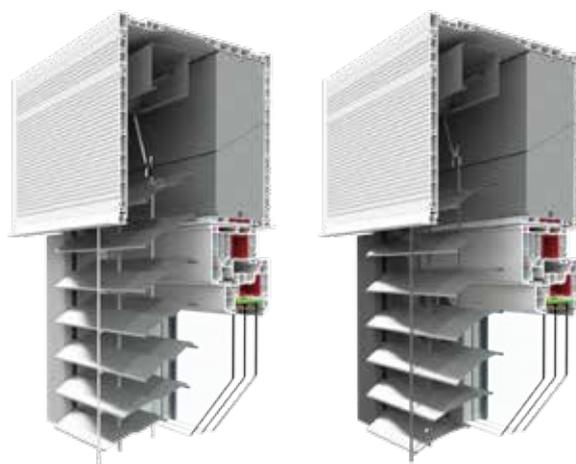


BOX CONCEALED IN THE LINTEL ALUMINIUM



SERVICING FROM THE OUTSIDE OF THE BUILDING

**BUILT-IN BLIND**  
WITH C80 / Z90 PROFILE



BOX WITHOUT HOUSING



BOX HOUSED ON BOTH SIDES



BOX HOUSED ON ONE SIDE (FROM THE INSIDE)

**BUILT-ON BLIND**  
WITH C80 / Z90 PROFILE



SERVICING FROM THE OUTSIDE OF THE BUILDING



BOX HOUSED ON ONE SIDE (FROM THE OUTSIDE)

# MODERN AUTOMATIC SYSTEM FOR BLINDS

## EVERYDAY COMFORT AND RELIABILITY

External venetian blinds allow you to freely control the incoming light, providing the comfort you expect in your dream home. The comfort of everyday use is primarily influenced by well-composed and selected automatic system; wide range of options allows you to tailor it to your needs.

## SMOOTH AND SMART CONTROL OF YOUR BLINDS.

A modern, quiet and durable drive is a guarantee of product satisfaction. It allows you to smoothly adjust the position of the slats to the current weather conditions, effectively protecting the product against damage, by detecting for example icing or snow settling between the slats of the shell.

## CONVENIENCE AT HAND

External venetian blinds control has never been so easy thanks to intuitive remote controls. The devices allow you to set the blinds in any location convenient for the investor and can also be combined with the smartphone application.

## ADAPTED TO YOUR DAILY ROUTINE

You can program modern external venetian blinds to your daily routine. They can be automatically pulled up or down in the evening, adjusted to your children's nap time or a given season of the year. Blinds can also create the impression of household members being present during the holidays or a long delegation. This is an additional aspect of security that you should consider.



# BEFORE YOU DECIDE, EXPLORE THE FEATURES

## CONTROL METHODS DEDICATED TO EXTERNAL VENETIAN BLINDS:

- **Wired control** – external venetian blinds alike, key switches or switches with a built-in timer are mounted on the wall.
- **Radio control** – allows you to control the blinds using wall transmitters or portable remote controls.
- **Bidirectional radio control** – a convenient and intuitive solution that allows the investor to control the blinds also from a smartphone or tablet. Messages about the current system status appear in the application.

An additional and indispensable device that helps in safe use of external venetian blind, ensures their proper functionality and protects the structure against damage is a wind sensor. The blind rolls up after exceeding set parameters.



## SYSTEMS THAT MEET YOUR EXPECTATIONS

Smart systems will support wired or wireless controllers selected for you:

### SETTING ADDITIONAL POSITION OF YOUR BLINDS

The option allows for stop your blinds at any height (e.g. half open). Depending on the individual preferences of your household members, you can pull up or down your blinds to the favoured position.

### CLIMATE SENSORS

They allow to adjust to changing weather conditions, for example - wind, rain or sunlight – by easy changing the position of the blinds.

### SIMULATION OF FAKE PRESENCE IN THE HOUSEHOLD

This function relies on an automatic, time-programmable scenario for individual blinds and can be used while you are away. Thanks to this function, our home effectively discourages potential burglars.

If you want to take full advantage of wide range of automation options and learn how to adapt it to your needs contact an expert when choosing external venetian blinds. Remember that after making the final decision, the seller should give you a schematic drawing necessary for the preparation of the electrical wiring.





## EXTERNAL SHUTTERS EFFECTIVE PROTECTION, AESTHETICS AND DISCRETION

Outdoor roller shutters have excellent thermal insulation properties, which can be highly appreciated in winter. They allow you to reduce expenses related to heating your home as the most of heat escapes through the windows that – **even as much a dozen or so percent!** The space between the window and the lowered shutter creates thermal insulation, i.e. airbag. As a result, the heat stays inside the building, which measurably translates into bill amounts, reducing heating expenses by up to several percent. Outdoor roller shutters also protect against noise.



Even the best quality windows should be equipped with shutters. In addition to the isolation function, they significantly increase everyday comfort of life.



**BOX CONCEALED  
IN LINTEL  
ALUMINIUM**



**SERVICING  
FROM THE OUTSIDE  
OF THE BUILDING**

## BUILT-IN SHUTTERS

The decision on purchasing shutters is best taken at the design stage of the house. Some roller shutter models require including them in the design and prior preparation of window openings. It is necessary to use the appropriate shape of the lintel in which the roller shutter box is mounted. This is the case with built-in shutters, ideal for energy-saving or passive houses. Their advantage is the possibility of building in the roller shutter box in a way that completely eliminates thermal bridges.



**INNOVATION**



**BOX  
CONCEALED IN LINTEL  
PVC SERVICE COVER**



**SERVICING  
FROM THE OUTSIDE  
OF THE BUILDING**

## BUILT-IN SHUTTERS WITH PVC INSPECTION COVER

Thoughtful, compact design, which was created from a combination of two different materials - aluminium (box, guides and shell) and PVC (inspection cover). This hybrid built-in roller shutter is a rigid and functional bottom profile construction, to which the revision cover is „clicked“ into place, does not require additional screws or rivets and is matched in colour or veneer to the rest of the frames. PVC inspection cover gives exceptional rigidity even with very large widths and dimensions of the shutters.

**This roller shutter model allows for the use of LED backlight over the entire width of the box.**



**OBLIQUE  
BOX 45°  
ALUMINIUM**



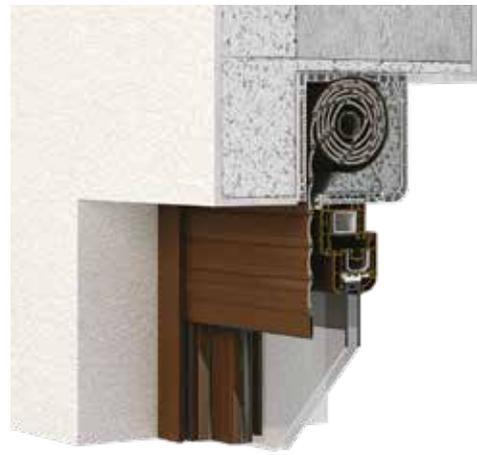
**SEMI-ROUND  
BOX  
ALUMINIUM**



**SERVICING  
FROM THE OUTSIDE  
OF THE BUILDING**

## FACADE SHUTTERS

If the house is already finished and the windows do not need to be replaced, the best solution is to install facade shutters. They are mounted on the wall, above the window recess. This installation method does not require prior planning in the building design, and the shutters can be adapted to all types of windows. The roller shutter box can be painted into one of over 200 RAL colours or veneered (KALIMA RS), thanks to which it is an aesthetic element of the house.



**BOX  
HOUSED FROM  
ONE SIDE  
(FROM THE  
OUTSIDE)**



**BOX  
HOUSED FROM  
ONE SIDE  
(FROM THE  
INSIDE)**



**BOX  
HOUSED FROM  
TWO SIDS**



**BOX  
WITHOUT  
HOUSING**



**SERVICING  
FROM THE INSIDE  
OF THE BUILDING**

## BUILT-ON SHUTTERS

Another type of shutters is ideal for a house at the shell state where shutters were not designed. Window shutters are mounted in the recess together with the window. They can also be installed when renovating and replacing windows. Similarly as in the case of built-in shutters - the box of shutters can be concealed under plaster after installation. In the case of window shutters, remember to reduce their size by the height of the roller shutter box when purchasing windows.

# ADVANCED AUTOMATIC SYSTEM FOR SHUTTERS

## REMOTE SUN

There is no doubt that automatic shutters have become a standard. They provide comfort, facilitate energy saving and improve the effectiveness of anti-burglary protection. It is worth to take full advantage of the wide range of options for automation and adjust its capabilities to your own needs.

## TYPES OF MOTORS FOR SHUTTERS

The motors for external roller shutters are placed inside a steel roller shaft, on which the shell is tilted up when the roller shutter is lifted. Drives differ among others regarding their power, which depends on the size and weight of the shutter, control method, as well as the method of setting the so-called roller shutter end positions (places where the shutter stops when it is fully raised or lowered). When choosing motors for roller shutters, it is worth paying attention to whether they are equipped with so-called **detection function**. It stops the roller shutter motor as soon as increased resistance is detected. This protects the motor against overload and the roller shutter from damage, e.g. when the shell freezes.

## RECEIVERS

Radio-controlled engines must be equipped with receivers, i.e. devices receiving signals from the transmitter. If we choose remote control from the beginning, the seller will advise us engines with a **built-in radio**. If you change the control method from wired to radio one, you will need to buy separate receivers. They are usually mounted in a flush-mounted box under the switch.



# THE LATEST TECHNOLOGY

## CHOOSE YOUR CONTROL METHOD

- **Wired control** – shutters are controlled with key switches or switches with a built-in timer mounted on the wall.
- **Radio control** – allows you to control the shutter using wall transmitters or portable remote controls.
- **“Mixed” solution** – key switches at each roller shutter are connected to a remote control that supports the whole group of blinds.

The latest solution in the area of automation for external venetian blinds is **two-way radio control**. Its unique advantage is immediate feedback transmitted to the user. In practice, this means that the application displays a message about the execution (or not) of the command and the current system status. In this case, you can replace the remote control or wall transmitter with a tablet or smartphone. Modern automation for roller shutters can also be connected to the „smart home” system (SIRI, Google, Alexa, IFFT), which allows comprehensive management of all systems in the home, including the gate, lighting, ventilation and even TV and radio equipment.



## SMART SYSTEMY

Depending on the manufacturer and type, wired and wireless controllers can be equipped with many additional options:

### SETTING ADDITIONAL ROLLER SHUTTER POSITION

The option of setting roller shutters at any height (e.g. half open), which depends on the individual preferences of the household members, and then pulling the blinds up and won in line with such arrangements.

### CLIMATE SENSORS

For example - wind, rain or sunlight; it can change the position of the shutters according to weather changes.

### FAKE HOUSEHOLD PRESENCE

This feature is based on the automatic, programmed movement of shutters - copying the user's natural behaviour by recording for a certain time each manual opening and closing of the shutters, and then replaying the resulting scenario.

To take full advantage of the extensive automation possibilities and adjust it to your needs, it's best to discuss it with an expert before choosing shutters. After making the final decision, the seller should provide us with a wiring diagram. It is also worth ensuring that both shutters and automation come from reputable manufacturers.



# ROLLER SHUTTERS

What to pay attention for when ordering shutters?  
It is worth learning more about their construction to make a conscious decision.

## BOX

Depending on the type of blinds and the type of installation, it can be hidden under plaster or stay visible; then it is possible to varnish it in any colour or finish in a veneer selected from several dozen patterns.

## TILT ROLLER

The shell is tilted on it.

## DRIVE

Installed in the tilt roller, it can be manual or electric.

## SHELL

It consists of aluminium profiles filled with polyurethane foam. Available in three options of profile height, in over 20 attractive designs and colours.

## BOTTOM SLAT

It is finished with a gasket and can be also equipped with additional protections. It is a stabilizing element of the shell.

## TRACKS

Depending on the system, it is made of aluminium or PVC, and equipped with brush gaskets to ensure smooth and quiet operation of the shutter.



# SAFE SHUTTERS

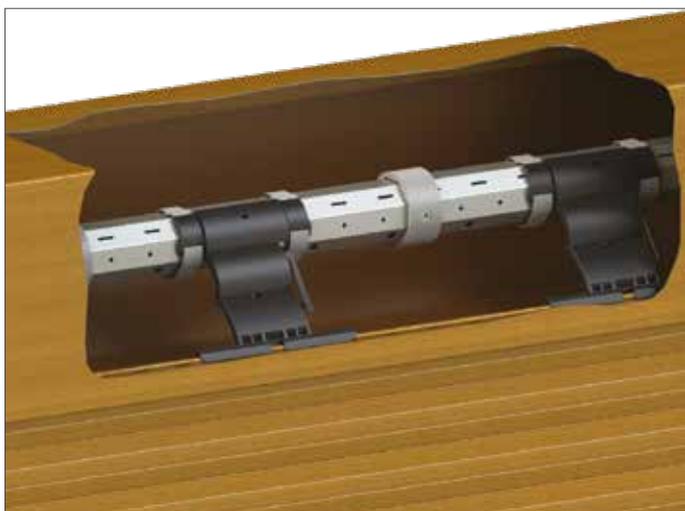
After disabling the alarm, the burglar faces a shutter, which can be strengthened with additional **security elements**. We have several solutions to choose from, and their selection depends on the type of shutters you have chosen.

In roller shutters with electric drive, these are so-called **anti-push up hangers** which are the items installed inside the box. They provide a rigid connection between the drive shaft and roller shutter shell, which prevents the shell from being lifted and raised from the outside.



## DOUBLE PROTECTION

The obstacle detection function built into electric drives is designed to protect both its users and the device. When an obstacle is detected, the mechanism retracts the shell and in the case of freezing it stops the engine.



## ANTI-PUSH UP HANGERS

Perfect protection against lifting the shell from the outside, available in roller shutters with electric drive.

Shutters with manual drives can be equipped with two types of security mechanisms. The first of them is the most commonly used and does not require additional maintenance – it is an automatic bolt. As the name suggests, when closing roller shutter steel bolts located in the bottom slat automatically lock in the guides. The mechanism is designed so that to unlock it, shell lifting must start from the drive side. Otherwise the bolts will remain in the guides preventing the shell from being lifted from the outside.

The second, alternative solution is a bolt lock located in the bottom slat. It is operated with a key, and its locking mechanism works in the same way as the one found in the automatic bolt.



## INTEGRATION WITH ALARM

Shutters with electric drive can cooperate with intelligent installations - alarms and group control. They can also work independently, simulating the presence of household members.



## AUTOMATIC BOLT

It locks the shell after it has been fully pulled down and unlocks when being opened with a tape or string. Used in roller shutters with manual drive.



## CHOOSE YOUR COLOUR

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A huge palette of colours and design possibilities allows you to match all elements of the frames to your own taste, also the colours of blinds and shutters.

You can find more inspiration at:  
[krispol.pl/en/gallery](https://krispol.pl/en/gallery)



# BLINDS COLOURS

## FINISHING OPTIONS:

Shutter shell available in over 20 colours. The housing, track and bottom slat, like other KRISPOL products, are available in over 200 RAL colours and several dozen veneers consistent with the frames.

## AVAILABLE SHELL COLOURS:



Dark beige **04**



Beige **05**



Dark wood **06**



Silver **01**



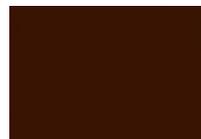
White **02**



Grey **03**



Light wood **07**



Dark brown **08**



Brown **09**



Green **13**



Cream **15**



Ivory **16**



Fir green **17**



Black **20**



Anthracite **23**



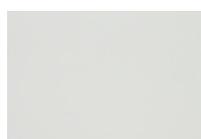
Mahony **26**



Walnut **28**



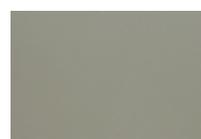
Golden oak **30**



Light grey **31**



Basalt grey **33**



Quartz grey **34**



Wenge **36**



Grey aluminium **37**



Winchester **52**



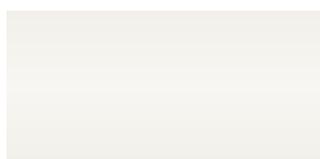
Light Oak **79**

# SHUTTERS COLOURS

## FINISHING OPTIONS:

Shutter slats available in 7 industrial colours. Housing and track - available in over 200 RAL colours.

## AVAILABLE SHELL COLOURS:



White **RAL 9016**



Grey **RAL 7035**



Silver **RAL 9006**



Silver aluminium **RAL 9007**



Anthracite **RAL 7016**



Embossed anthracite **DB 703**



Brown **RAL 8014**



Black **RAL 9005**



## COMPREHENSIVE HOME SOLUTIONS



### EXPERTS

KNOWLEDGE AND EXPERTISE



### INSTALLATION

QUICK AND PROFESSIONAL



### SERVICE

UNDER CONTROL



### WARRANTY

UP TO 5 YEARS\*



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\* Warranty conditions available on the website: [krispol.pl/en/](http://krispol.pl/en/)