

GARAGE DOORS EXTERNAL ROLLER SHUTTERS



All photos included in the index present DAKO products used in the project implementations. We would like to thank the investors for the opportunity to complete the session.

The presentation of the products in the photos is for illustrative purposes – due to the light in the images - the actual appearance of the colors and textures of individual products may slightly differ.



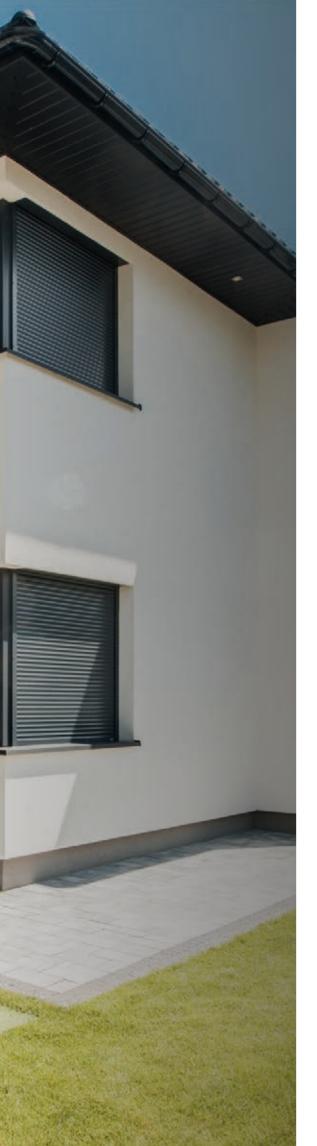


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Choose **COVERS and GARAGE DOORS** that will provide comfort and convenience for its residents







GARAGE DOOR is an important element of home furnishings, find a solution that suits it best!



What distinguishes DAKO garage doors?

SECURITY

The standard security package that our garage doors are equipped with is a guarantee of use without worrying about the safety of yourself and other household members.

AESTHETICS

A rich palette of colors, textures or decors provides the possibility of composing a dream garage door, stylistically matching the aesthetics of the building body or other facade elements.

FUNCTIONALITY

Different garage door track system solutions allow the garage door to be adapted to any garage room, regardless of size or other restrictions.

CONVENIENCE

Equipping the garage door with an automatic drive ensures easy and comfortable operation, and integration with the intelligent management system enables remote control.

THERMAL INSULATION

GARAGE DOORS

Different levels of thermal insulation of the garage door, depending on the panel thickness allow to choose a solution with optimal parameters.





Garage door perfectly fitted!

DAKO

Comfortable, aesthetic and durable solutions for your home.

GARAGE DOORS / SECTIONAL GARAGE DOORS





THE BEST THERMAL INSULATION GARAGE DOOR with DK-GP THERMO 2 6/16 in (60 mm) panel

The warmest solution for demanding customers

+ TIMELESS AESTHETICS, due to the smooth structure of the panel

DAKO

- + Maximum ENERGY EFFICIENCY
- + Excellent standard OF QUALITY AND DURABILITY

GARAGE DOORS / SECTIONAL GARAGE DOORS





THE WARMEST PANEL Thermo

2 6/16in (60 mm) thick panel, filled with CFC-free polyurethane foam.





AESTHETIC APPEARANCE OF THE GARAGE INTERIOR

Fittings and hinges painted white (9016 RAL) as standard.



VERY GOOD THERMAL INSULATION

A unique seal against heat loss.



GARAGE DOOR with 19/16in (40 mm) **panel** in three embossing variants

A proven solution with enhanced aesthetics





WARM PANEL

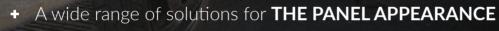
Durable 1 9/16in (40 mm) thick panel with optimal insulation parameters.



AESTHETICS TO CHOOSE FROM

Modern design in 3 variants of panel embossing.

GARAGE DOORS / SECTIONAL GARAGE DOORS



- + Optimal THERMAL INSULATION PARAMETERS
- + The perfect balance of **QUALITY AND PRICE**



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SECURITY

with DAKO standard security package

GARAGE DOORS / SECURITY



FINGER CRUSH PROTECTION

The special shape of the panels prevents your fingers from being crushed between them when closing the garage door.



PROTECTION IN THE EVENT OF FAILURE

In the event of wire or spring breakage, the system prevents the garage door blade from falling uncontrollably. The spring protection is fitted as standard for both panel thicknesses. The cable protection is used as standard for 2 6/16in (60 mm) and 1 9/16in (40 mm) panel garage doors from 96 7/8ft².



SAFE DRIVE

An overload switch, which is a standard protection of the automatic unit, stops its operation in the event of encountering an obstacle in the garage door closing path.



TRACK SYSTEM

that guarantees reliable garage door operation



ST TRACK SYSTEM

- Used for garage doors with 1 9/16in (40 mm) panel with minimum 13 12/16in (350 mm) lintel, for garage doors with 2 6/16in (60 mm) panel with minimum 14 9/16in (370 mm) lintel.
- Torsion springs are mounted at the front to the lintel.
- Garage door with single horizontal guide rails.



LHF TRACK SYSTEM

- The required lintel height to install the garage door, is from 8 10/16in (220mm).
- Torsion springs are mounted at the front to the lintel.
- Garage door with double horizontal guide rails.



19/16in | 40 mm

LHR TRACK SYSTEM

- Used when the lintel height is at least 3 15/16in (100 mm) (for a manual garage door) and 5 14/16in (150 mm) (for an automatic garage door).
- Torsion springs mounted at the end of double horizontal guide rails.



N TRACK SYSTEM

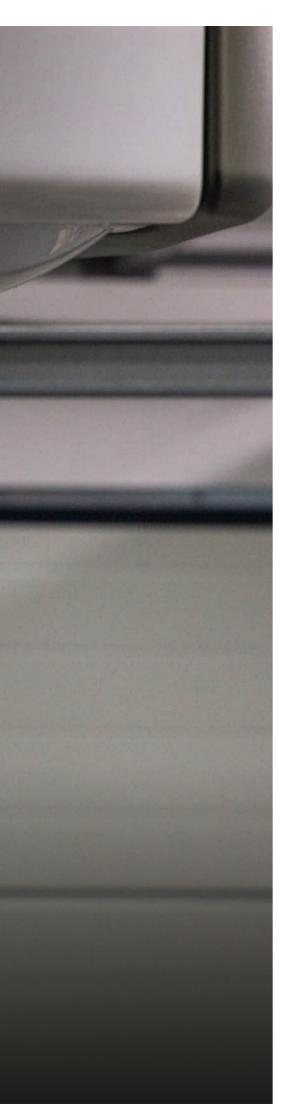
- Used for garages where there are no side walls or lintels.
- The minimum lintel height is 3 15/16in (100 mm) (for a manual garage door) and 5 1/8in (130 mm) (for an automatic garage door).
- Tension springs mounted in the angle bars of vertical guide rails.



18-19

CONTROL

ensuring comfortable garage door operation







AUTOMATIC CONTROL

SOMFY DRIVE

Modern and intuitive automatic garage door control systems.

- + Dexxo Optimo
- + Dexxo PRO
- + Dexxo PRO IO

LIFTMASTER DRIVE

UNIVERSAL DRIVE

Easy-to-use automatic control system at favourable price conditions.

- + Universal ECO
- + Universal

An alternative, lateral solution for garages where there is no room for mounting the drive under the ceiling.



MANUAL GARAGE DOOR

The manual operation option allows for cost reductions, but it also reduces the comfort of garage door operation.





ADDITIONAL EQUIPMENT

accessories to make your garage more convenient to use



REMOTE CONTROLS

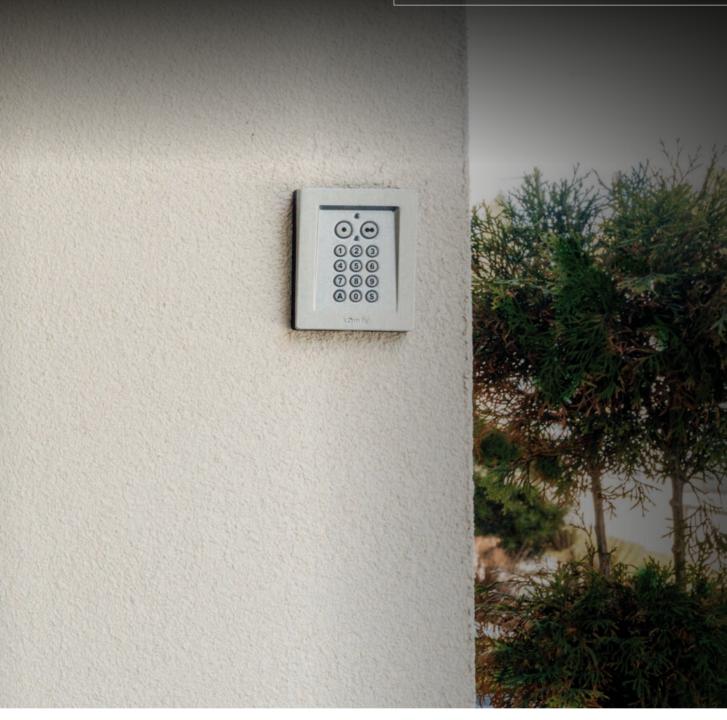
Convenient and wireless control of the garage door due to additional remote controls.



PHOTOCELLS

Detection of an obstacle in the path of the garage door blade, guaranteeing increased safety.

GARAGE DOORS / EQUIPMENT





EXTERNAL CODE KEYPAD

Comfortable opening and closing of the garage door after entering the code - without using the remote control.



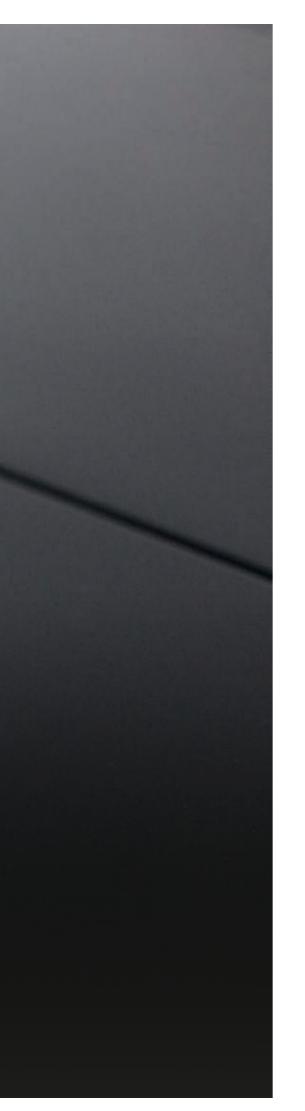


Light signal informing about the garage door operation and the necessity to be careful.



DECORS AND GLAZINGS

that add character to the garage door



GARAGE DOORS / DECORS



DECORATIVE ELEMENTS

Elements of various geometric shapes are glued on the panels from the outside, made of lightweight, damage-resistant material.



GLAZING WITH A PLASTIC FRAME

Solid polycarbonate in a plastic frame, mounted in the panels of the garage door blade. Available in white, brown, black, golden oak, nut, mahogany and anthracite grey.



GLAZING WITH A STAINLESS STEEL FRAME

Solid polycarbonate in a stainless steel frame, mounted in the panels of the garage door blade.



ALUMINUM GLAZED PANEL

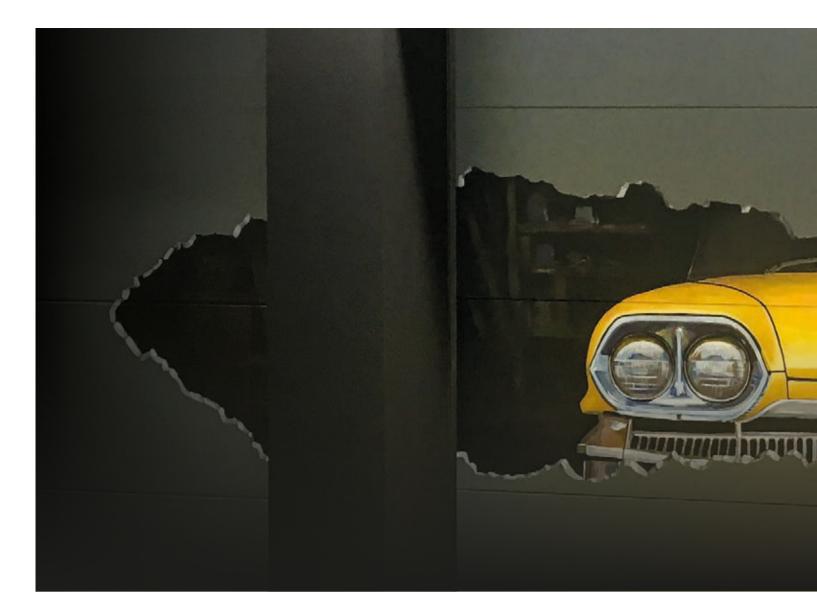
Panel filled with solid polycarbonate, double glazed. Installed in place of the garage door panel in order to light up the garage interior.



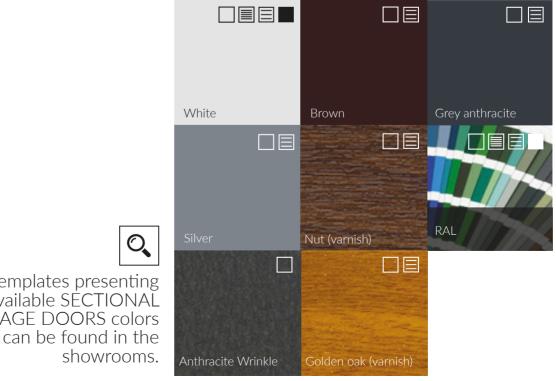
ALUMINUM PERFORATED PANEL

Panel filled with perforated steel sheet pattern. Installed in place of the door panel in order to ventilate and light the room.









Templates presenting available SECTIONAL GARAGE DOORS colors can be found in the

GARAGE DOORS / COLORS

COLORS

of sectional garage doors

EXTENDED



1 Golden oak | 2 Nut | 3 Dark grey | 4 Winchester | 5 Swamp oak | 6 Dark grey silk | 7 Mahogany | 8 Silver grey | 9 Brown | 10 Basalt grey | 11 Quartz grey | 12 White | 13 Creamy white | 14 Sheffield oak | 15 Green | 16 Dark green | 17 Light grey | 18 Agate GREY | 19 Navy blue | 20 Mountain pine | 21 Platinum crown | 22 Oregon III | 23 Smooth basalt grey | 24 Smooth silver grey | 25 Ruby | 26 Light oak | 27 Dark grey Alux | 28 Desert oak | 29 Black | 30 Matt black | 31 Chocolate oak | 32 Monument oak | 33 Mountain oak | 34 Natural oak | 35 Matt dark grey



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SERVICE WICKET

Functional additive for increased comfort of use

- + EASY ACCESS to the garage without lifting the entire garage door
- + Low aluminum threshold for COMFORTABLE MOVEMENT
- + Aesthetic filling of the wicket door sash with garage door panels ensuring **VISUAL CONSISTENCY.**

GARAGE DOORS / SERVICE WICKET





COMFORT OF USE

The low threshold wicket door is equipped with a low 1 3/16in (30 mm) aluminum threshold for comfort and safety.





AESTHETIC APPEARANCE

The high quality of manufacturing makes the garage door look elegant.



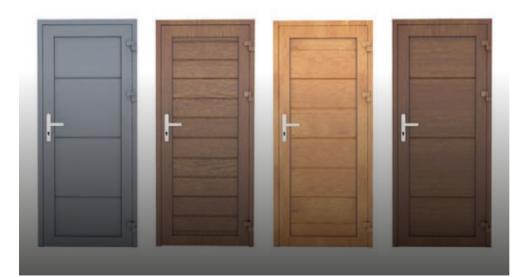






A WARM AND DURABLE SOLUTION

The aluminum frame profile with panel filling ensures the optimal level of door thermal insulation.





HIGH LEVEL AESTHETICS

Panel fillings allow to match the appearance of the door to the garage door.



GARAGE DOORS / SIDE GARAGE DOORS

SIDE garage doors

Convenient access to the garage without lifting the garage door

- CONSISTENT APPEARANCE with the garage door finish enhances the aesthetics of the overall appearance
- + EASY AND QUICK ACCESS to the garage
- Warm profile with A THERMAL BREAK guarantees very good thermal insulation



Alternative option

For garages where thermal insulation goes into the background

GARAGE DOORS / ROLL-UP GARAGE DOORS

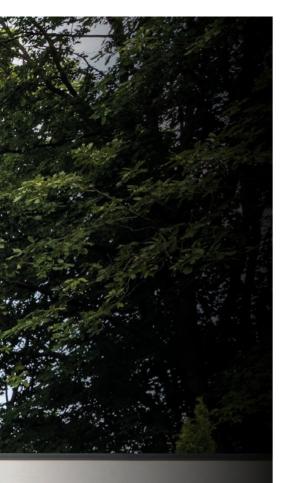
GARAGE DOORS Roll-UP



ROLL-UP GARAGE DOOR

Ideal solution for smaller garage spaces

- + HIGH QUALITY of workmanship
- AESTHETIC CASING, in which the garage door blade is hidden
- + An option for **SMALL GARAGE ROOMS** due to the use of vertical track system and no ceiling guide rails





RICH STANDARD OF EQUIPMENT

It includes a control system as well as an emergency opening crank and an emergency brake integrated in the drive (radio version).

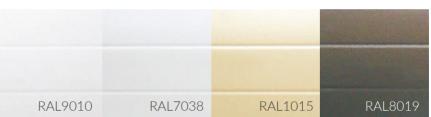


ADDITIONAL ACCESSORIES

Solutions such as sensors or photocells increase the comfort and safety of using the garage door.

AVAILABLE COLORS

BASIC



EXTENDED



1 Dark wood | 2 Nut | 3 Golden oak | 4 Silver RAL 9006 | 5 Black RAL 3003 | 6 Red | 7 Dark green RAL 6009 | 8 Light green | 9 White RAL9001 | 10 Navy blue RAL5011 | 11 Anthracite grey RAL7016 | 12 Light brown RAL 8014





FEE COMFORTABLE

by ensuring yourself silence, privacy and security



EXTERNAL Roller Shutters

Solutions full of advantages

ENERGY SAVING

The external covers increase the level of thermal insulation of the building, which prevents the rooms from overheating in the summer and in winter they significantly contribute to energy savings.

SOUND INSULATION

Increased sound absorption allows for a significant noise level reduction inside.

SECURITY

The installation of external covers provides better protection of the house against burglars and an increased sense of security for the residents of the house.

EXTERNAL ROLLER SHUTTERS

WINDOW PROTECTION

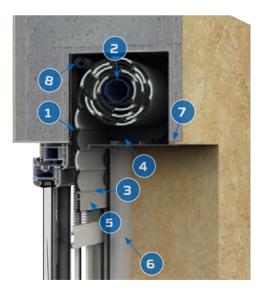
Against sun, wind, rain, snow and other atmospheric conditions.

COMFORT

The covers make it possible to adjust the amount of light entering the interior of the rooms to the current needs of the household members. It is also a guarantee of home privacy protection.

1.75





Roller shutter **DK-RSP**

Roller shutter casing | 2. Winding pipe | 3. Curtain | 4. Access panel |
Bottom slat | 6. Guide rail | 7. Plaster profile | 8. Mosquito net (option)

EXTERNAL ROLLER SHUTTERS / FLUSH-MOUNTED ROLLER SHUTTERS

Flush-Mounted ROLLER SHUTTERS

A modern solution for newly built facilities

- + Roller shutter casing **FULLY INTEGRATED** into the facade
- OPTIMAL PARAMETERS for excellent thermal and acoustic insulation
- + ACCESS PANEL located on the outside



Front-Mounted Exterior Roller Shutters

Solution for newly constructed and modernised facilities

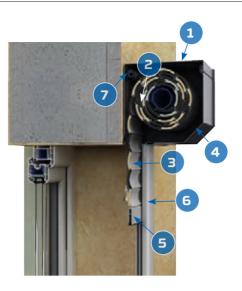
 Installation OF THE SHUTTER FROM THE SIDE OF THE BUILDING'S FACADE,
Det requiring any interference with the structure of the building

not requiring any interference with the structure of the building.

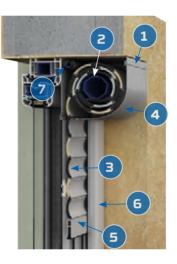
- + Possibility to select **THE SHAPE OF THE SHUTTER CASING** to the character of the building
- Maintenance without disturbing THE PRIVACY OF THE HOUSEHOLD



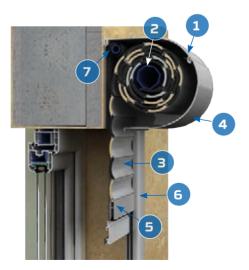
EXTERNAL ROLLER SHUTTERS / FRONT-MOUNTED EXTERIOR ROLLER SHUTTERS



Roller shutter **DK-RZS**



Roller shutter **DK-RZP**



Roller shutter **DK-RZO**

1. Roller shutter casing | 2. Winding pipe | 3. Curtain | 4. Access panel | 5. Bottom slat | 6. Guide rail | 7. Mosquito net (option)



TWO SYSTEM VARIANTS:



TOP-MOUNTED ROLLER SHUTTERS IN VINYL **CASING**



TOP-MOUNTED ROLLER SHUTTERS IN EPS **CASING**



EXTERNAL ROLLER SHUTTERS / ROLLER SHUTTERS TOP-MOUNTED

Top-Mounted ROLLER SHUTTERS

A proven choice already at the building design stage

- + **AESTHETIC OPTION** to completely cover the roller shutter casing
- Possibility OF ADDITIONAL EQUIPMENT with a mosquito net rolled up to the roller shutter casing
- + **TWO MATERIAL VARIANTS** of the roller shutter casing



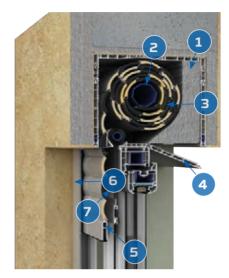
Top-Mounted ROLLER SHUTTERS

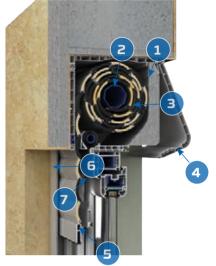
In VINYL or EPS **casing**



EXTERNAL ROLLER SHUTTERS / TOP-MOUNTED ROLLER SHUTTERS

Top-mounted roller shutters in **VINYL CASING** available in two shape variants.

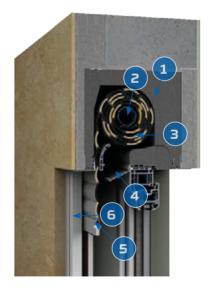




Roller shutter **DK-RNB**

Roller shutter **DK-RNC**

Top-mounted roller shutters in **THE EPS CASING** with increased thermal insulation parameters.

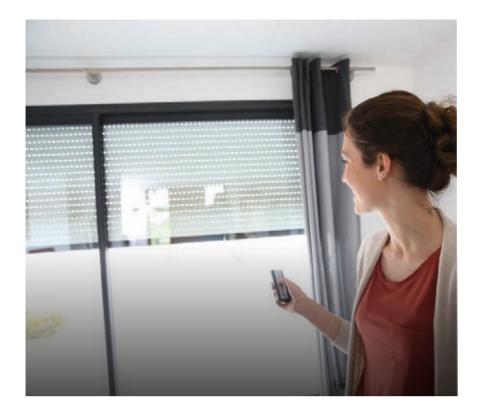


Roller shutter **DK-RNT**

Roller shutter casing | 2. Winding pipe | 3. Curtain | 4. Access panel |
Bottom slat | 6. Guide rail | 7. Mosquito net (option)

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AUTOMATIC CONTROL

DAKO External roller shutters are equipped with several types of drives from renowned suppliers.

SOMFY AND MATIC:

- + Radio motors
- + Radio motors with obstacle detection
- + Solar radio motors
- + Cable motors
- + Cable motors with obstacle detection





MANUAL OPERATION

Operation of the roller blinds is possible by using tape/string retractors or cardan joint.



EXTERNAL ROLLER SHUTTERS / CONTROLLED

CONTROL SYSTEM

for comfortable operation of roller shutters

DAKO

Additional EQUIPMENT

ensuring peace and convenience



EXTERNAL ROLLER SHUTTERS / ADDITIONAL EQUIPMENT



WALL-MOUNTED REMOTE CONTROLS

Mounted on the wall to control the roller shutters, depending on the model, they support a different number of channels. Available for radio drives.



MOBILE REMOTE CONTROLS

They enable remote control of radio-motor roller shutters. Depending on the model, they support from 1 to 99 channels. Available in various designs.



CONTROL PANELS

They allow the adaptation of cable motors to be controlled by remote controls.



RELAYS AND SWITCHES

Available in flush-mounted or surface configuration, they are used to control one roller shutter or groups of roller shutters with cable motors.

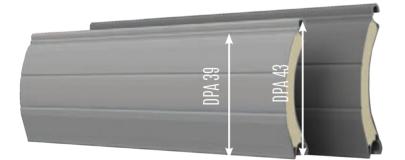


For a complete list of remote controls and control devices for roller shutters, please visit **dakowindows.com** or visit our showrooms.



APPEARANCE AND FUNCTIONALITY

- + External roller shutters curtains are available in **A PERFORATED AND FULL VERSION**
- + As a standard, curtains are made in a perforated version
- The first six upper profiles are made in a full version to reduce light transmission due to inaccurate closing of the shutter



CURTAIN TYPES:

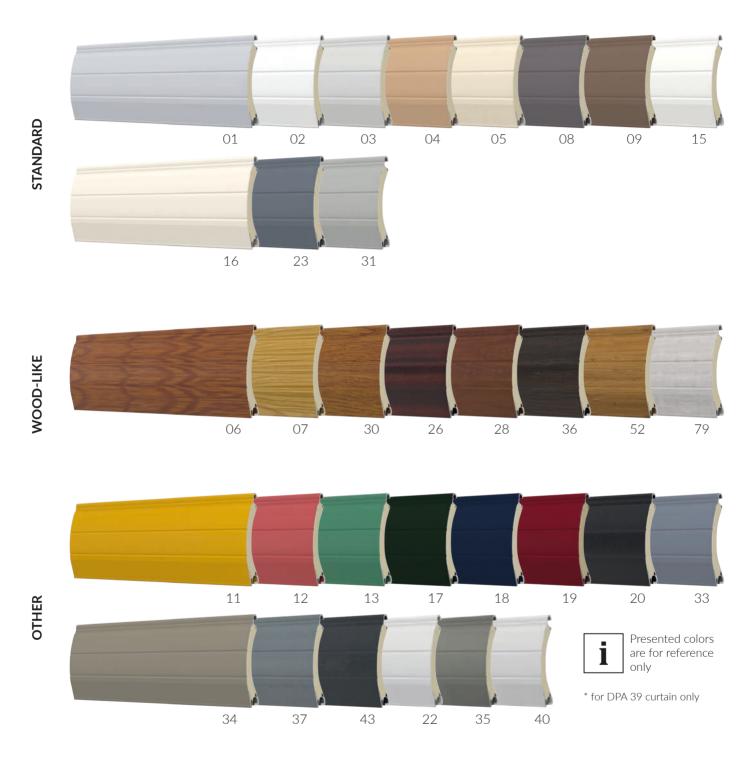
- DPA 39 armor with height 1 1/2in (39mm) - max. area 64 ft² (6 m²), max. width 9 ft (2900 mm)
- DPA43 armor with height 111/16in (43 mm) - max. area 86 ft² (8 m²), max. width 10 ft (3200 mm)





EXTERNAL ROLLER SHUTTERS / COLORS

ROLLER SHUTTERS CURTAIN COLORS



01 - silver | 02 - white | 03 - grey | 04 - dark beige* | 05 - beige | 08 - dark brown | 09 - brown | 15 - creamy white | 16 - ivory | 23 - grey anthracite | 31 - light grey | 06 - dark wood | 07 - light wood* | 30 - golden oak | 26 - mahogany | 28 - nut | 36 - swamp oak | 52 - winchester | 79 - sheffield oak* | 11 - yellow* | 12 - red* | 13 - green* | 17 - green fr** | 18 - steel blue* | 19 - maroon* | 20 - black | 33 - basalt grey | 34 - quartz grey | 37 - grey aluminum | 43 - grey anthracite pearl matt* | 22 - ultra white | 35 - grey concrete | 40 - white pearl matt*



Exterior Window Blinds

A modern alternative for roller shutters

- + Thermoregulatory AND PROTECTIVE PROPERTIES
- + OPTION TO ADJUST THE AMOUNT OF LIGHT entering the room
- + Light and simple aluminum construction for **MODERN BUILDING FINISH**

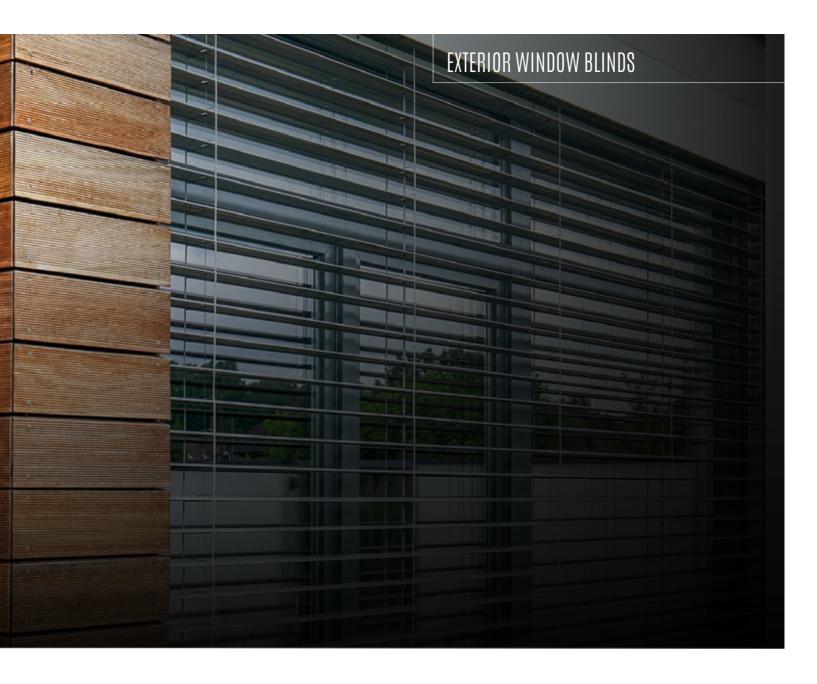
INSTALLATION OF EXTERNAL blinds

TOP-MOUNTED **DK-ZFN**



The best solution already at the building design stage:

- Blinds profiles are located in the PVC top-mounted casing.
- Perfect insulation eliminating thermal bridges.



ELEVATION **DK-ZFS**



For buildings where finishing work has been completed:

- Blinds mechanism with the profiles is hidden behind the cover plates.
- The possibility of matching the colour of the mechanism to the blinds profiles.



VARIANTS AND COLORS OF EXTERIOR WINDOW BLINDS



TWO VARIANTS OF THE LAMELLA SHAPE



C- 80 C-shaped lamella 3 i 3/16in (80 mm) wide.

•

•



Z- 90 Z-shaped lamella 3 i 1/2in (90 mm) wide.

LAMELLA COLORS





SMART HOME Management system

Remote home control

- + **COMFORTABLE, WIRELESS** control of electrical devices at home
- Possibility of creating INDIVIDUAL OPERATING scenarios
- + FEEDBACK on the status of devices

Three advanced control solutions work with DAKO products and enable wireless control of home appliances from anywhere in the world.



DAKO SMART HOME

- Opening and closing garage doors and roller blinds as well as awnings and jalousie. Switching on, off and operating other devices. (including: electronics,
- Management of the alarm, fire, heating, air conditioning, ventilation and lighting systems.
- Feedback possible after installation of opening sensors.

SMART HOME MANAGEMENT SYSTEM





DAKO SMART CONNECT

- Opening and closing of garage doors and roller shutters.
- Possibility of obtaining realtime feedback from devices related to the system.



DAKO SMART CONTROL

- Possibility of controlling garage doors, roller shutters, awnings, watering system or home and garden lighting.
- Feedback available for devices in a two-way version.



GLOSSARY

ofterms

SECTIONAL GARAGE DOOR – a type of garage door made up of special panel segments which, when opened, move upwards along vertical and horizontal overhead guide rails, up to the ceiling, thus providing maximum light for the passage.

ROLLER GARAGE DOOR – a type of a garage door made of curtains set in vertical guide rails, rolled up to an aluminum casing. It is distinguished by the lack of ceiling guide rails, therefore it is used mainly as an alternative to small garages, where there is no space to install such guide rails.

MANUAL GARAGE DOOR – type of manually operated garage door, i.e. without a drive.

VERTICAL GUIDE RAIL ANGLE BAR – An angle bar fixing the garage door structure to the wall. A vertical guide rail is mounted directly to the angle bar.

ACCESS PANEL - a box element, i.e. the roller shutter casing, enabling access to the mechanism located in the box and performing necessary maintenance and service works. Depending on the system, it can be inside or outside of the building.

EMERGENCY LIFT CRANK – used for Roll-up garage doors in case of power failure.

LINTEL – structural element in the form of a beam placed above the openings in the wall in order to support the building structure. Its main function is to transfer the loads from a part of the wall above the opening to the wall on both sides of the opening.

DRIVE – a type of power supply for the door, thanks to which it automatically opens and closes in one or more selected ways, e. g. with the remote control and/or code keypad.

PANEL – part of the door shutter . Depending on the size of the garage door, the shutter consists 3 to 6 panels.

ROLLER BLIND SHUTTER – the main element of the Roller blind consists of horizontally arranged aluminum slats, also called lamellas. The lamellas are filled with foam and rolled up to the roller blind box.

PERFORATED SHUTTER – roller shutter consisting of perforated profiles, which after slight lifting gives the possibility to light and ventilate rooms.

FULL VERSION (NON-PERFORATED) – shutter - roller blind shutter consisting profiles without perforations. In order to light or ventilate the rooms, roll the shutter up to the box.

GARAGE DOOR SHUTTER – the main element of a sectional garage door made up of joined together door panels placed in side vertical guides. During opening, it moves upwards along the vertical and horizontal guides up to the ceiling.

TRACK SYSTEM – a system of vertical and ceiling guides adapted to the given garage room. The guides are adjusted to the lintel height .

GLOSSARY OF TERMS

PANEL MOULDINGS – horizontal recesses in the panel of the sectional door, arranged at equal intervals, affecting the aesthetics of the entire door.

EXTERNAL ROLLER BLIND – a type of window cover, installed mainly to improve the energy balance of the whole building by limiting excessive heating and cooling of the interior.

SOLAR ENGINE – a type of drive for a roller shutter, which uses solar energy to function.

ROLLER SHUTTER CASING – a component of the external roller blind. The box contains a mechanism for lifting and lowering the roller shutter. Depending on the system, the box may be a visible or invisible (built-in) element of the blind.

TENSION SPRINGS – springs are mounted in angle profile of vertical rail. When the door closes the spring stretches thanks to the steel rope system, which balances the weight of the door.

TORSION SPRINGS – the part of the garage door which is installed parallel to the upper edge of the entrance opening, enabling it to be opened and closed without difficulty. Torsion springs operate on the principle of torsional forces that drive a shaft with a drum on which a steel rope is rolled on attached to the lower part of the door shutter.

CABLE CONTROLL – a type of automatic control of the roller blind by switch located on the wall. This is the easiest way to automate roller blinds, but only in unfinished houses, as it is necessary to run a cable from the roller blind to a switch located on the wall. **RADIO CONTROL** – a type of automatic roller blind control requiring only a power supply to each blind . A remote control is responsible for controlling the roller blind it sends a command with a radio signal to a receiver located in the roller blind engine.

SEALING – additional protection in the form of a set of gaskets that protect the sectional garage door against heat loss. Depending on the choice of system, the door may have a side seal or a side and bottom seal.

EXTERNAL ROLLER BLIND – a type of window cover, installed mainly to improve the energy balance of the whole building by limiting excessive heating and cooling of the interior.

The heat transfer coefficient is marked with U $[W/m^2K]$. The lower its value, the better - the low heat transfer coefficient informs about the fact that the garage door has good thermal insulation properties and guarantees the reduction of heat losses.

OVERLOAD SWITCH – standard equipment of sectional garage door, switching off operation of the drive, in case of encountering an obstacle.





DAKO BRAND

BOAKO[®]

A PRESTIGIOUS POLISH BRAND CLOSE TO YOU

Commitment, passion and hard work are the features due to which the family company DAKO, established in 1994 in Nowy Sącz, is today a thriving brand with an established position on the joinery market. A modern machine park with an area of 26 000 m², working under the supervision of qualified specialists, allows us to provide our customers with products of the highest quality. Thanks to an extensive network, well equipped showrooms and professional support of advisers, DAKO products are available almost everywhere.

27 YEARS OF EXPERIENCE AROUND THE WORLD

The long history of the brand's existence means successes not only on the domestic market, but also experience on foreign markets such as Belgium, France, Germany, Italy, Canada, New Zealand, or the USA and Japan. Currently, more than half of the production is made up of various types of products that are purchased by export markets from all over Europe, whose trust in the brand is due to the high quality of services offered.

COMPREHENSIVE PRODUCT OFFER

The high quality of the brand's products is confirmed not only by numerous and systematic tests and certificates or a long warranty period. The most reliable and valuable opinions about our products are primarily a growing group of satisfied customers who have placed their trust in DAKO windows, doors, roller shutters and garage doors, choosing a comprehensive brand offer to make their dreams of their own home come true. We are particularly proud of this fact.

62-63 **• DAKO**°

