

## The advantages of Drutex roller shutters:

### Uncompromising safety

As a result of application of numerous solutions of blocking shutters raising and shutters control, the roller shutters improve the building safety level.

### Perfect acoustic insulation

Roller shutters guarantee reduction in the perceived noise, ensuring silence and comfort thanks to their stable structure and high-quality components used in the production.

### Perfect thermal insulation

The application of top production materials represents an investment in energy efficiency and in decreased energy consumption in the building, which significantly reduces heating costs.

Tests conducted at ITB have confirmed that IGLO 5 window with drawn shutters had thermal transmittance coefficient at 0,75 W/(m<sup>2</sup>K) level\*.

### Quality and aesthetics

Beautiful style, innovative approach to design and roller shutters functionality constitute their key strengths. They guarantee elegance and comfort in operation for many years thanks to the modern design solutions and perfect manufacturing at all production stages.

### Usage comfort

We offer a possibility to control roller shutters with a remote control, a tablet or a smartphone, manually or with an electric engine, which allows to use the roller shutters with ease and comfort.

\*for a window of 1500 mm x 1500 mm according to the ITB test

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# Roller shutters

PVC, ALUMINIUM

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# The system of external PVC shutters

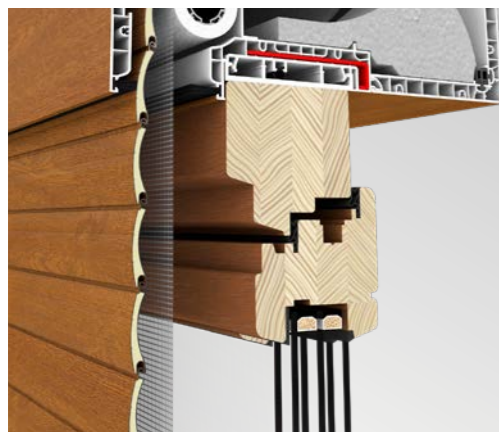
External PVC roller shutters is a system of shutters integrated with the window. It may be applied for buildings under construction or when exchanging windows. The wide color range of the boxes and guide rails made of PVC and of aluminum armors, as well as various roller drives and protection fulfill all Clients' expectations.

The system of Drutex external shutters enables a built-in internally and externally, so that the only visible parts are the roller guide, the aluminum armor and the bottom revision cover, which is an expression of modern construction and is in line with current trends in design.

Drutex external roller shutters are the work of own research and development department. We applied numerous innovative solutions that ensure both comfort and perfect parameters in energy efficiency.

## Did you know that ...

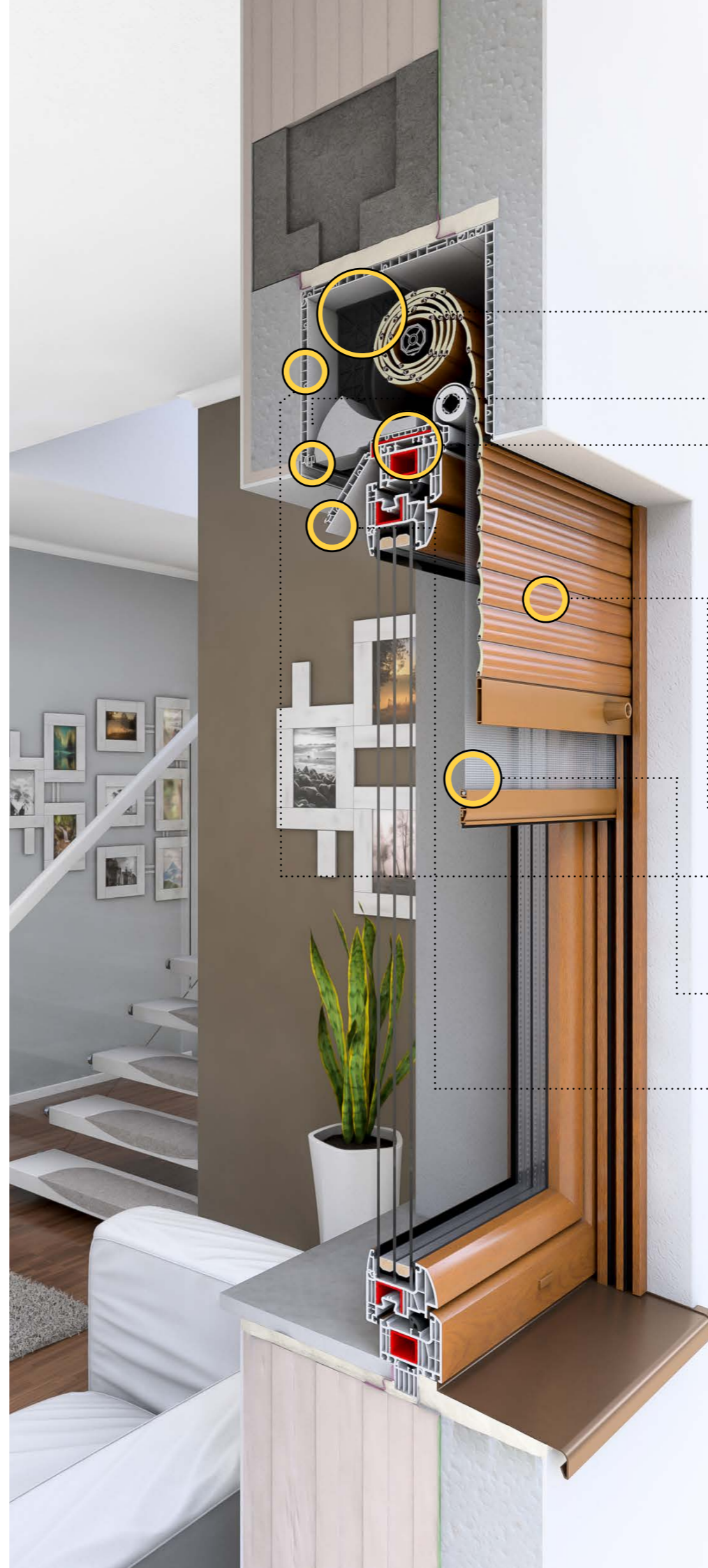
We offer the possibility to integrate the roller shutters with various window systems, including the aluminum or wooden systems, thanks to the application of a special adapter.



## ROLLER SHUTTERS WITH STYROFOAM BOX

Thermal and sound insulation, as well as the possibility to obtain a higher class of burglary protection.

- The application of the roller shutters significantly improves sound insulation by creating an extra barrier against external noise. The box itself as a standard ensures sound-proofing at 45 Db
- The roller shutter system allows RC2 burglary resistance in windows to be obtained, and the possibility of connecting them with external alarm systems further increases the level of security.
- The construction and structure of the roller shutter facilitates plastering and façade treatment.
- It is characterized by a large curtain chamber diameter - 205 mm diameter (competing shutters have only approx. 180 mm), which allows you to make shutters that can be mounted on larger window openings.
- The product also allows you to adjust the depth of the box to the wall thickness. The offer includes boxes with dimensions of 260, 300, 365 and 420 mm.



## System specification

- **The reinforcement console in Drutex roller shutters is made of plastic (so called warm)**, unlike steel consoles offered by other producers, it significantly improves the system energy efficiency parameters and it allows to obtain the optimum structure rigidity
- **The shutter closing, made of aluminum profiles**, enables to open it and it ensures additional reinforcement.
- **The roller shutter adapter - an original design of a lath that connects the roller shutter with the window in Iglo 5, Iglo Light and Iglo Energy**, equipped with EPDM seal. It guarantees optimum tightness and allows to obtain perfect parameters in thermal insulation and air permeability.
- **Specially designed reinforcement** ensures optimum system rigidity, as well as resistance to wind pressure and suction.
- **37 mm, 42 mm wide slats** filled with thermal insulation foam are available in various color variants.
- **Depending on the installed window and the applied adapter** the boxes are 215 mm high for Iglo 5 and Iglo Energy systems, and 225 mm high for other Drutex systems.
- **The roller shutter was designed** in a way that the installation of the mosquito net is possible on the outside and on the inside of the roller shutter armor.
- **Access to the box** for maintenance purposes is possible after the opening of the bottom of front revision.
- **The roller shutter equipped with electric drive with detection** improves usage safety level.

# The system of adaptation aluminum roller shutters

The system of external aluminum roller shutters has been designed for already existing buildings or buildings under construction. The roller shutter is made of aluminum and it is available in various shades of RAL palette and wood-like colors. Its stable structure ensured by the application of high-quality materials and thoughtfully designed construction, the work of own research and development department, allows to match any architectural style. Thanks to high thermal insulation Drutex aluminum roller shutters constitute a great energy efficient barrier and they are suited for thermal insulation and passive constructions.

## Types of adaptation roller shutters



### 45° ROLLER SHUTTER

- available in: 137, 165 and 180 mm (the box width and height)
- is characterized by the special cut-off box that removes the right angle



### OVAL ROLLER SHUTTER

- available in: 139x144; 167x171; 182x188 mm (the box width and height)
- the oval shape matches perfectly the delicate construction elements



### RECESSED ROLLER SHUTTER

- available in: 137, 165 or 180 mm (the box width and height)
- may be assembled in a number of ways thanks to the opening valve at the bottom of the box
- possibility to assemble it at the front of the box



## System specification

- The box constitutes a decorative element** and it matches the building façade thanks to the wide color range.
- Access to the box** for the 45° and oval roller shutter is at the front, and for the recessed roller shutter – at the bottom, which enables to build it in completely.
- The box and the guide** are available in rich colors of the entire RAL palette, which makes the blinds stand out aesthetics and modern design.
- The armor is made of aluminum profiles**, filled with polyurethane foam, is rolled inside the box fitted on the wall or in the window frame, which improves the system energy efficiency qualities.
- The end slat** is available in various colors in the RAL color range, which improves consistency and elegance of the structure.
- There is the possibility to install a **mosquito net integrated with the roller shutter**, which determines higher functionality and usage comfort.

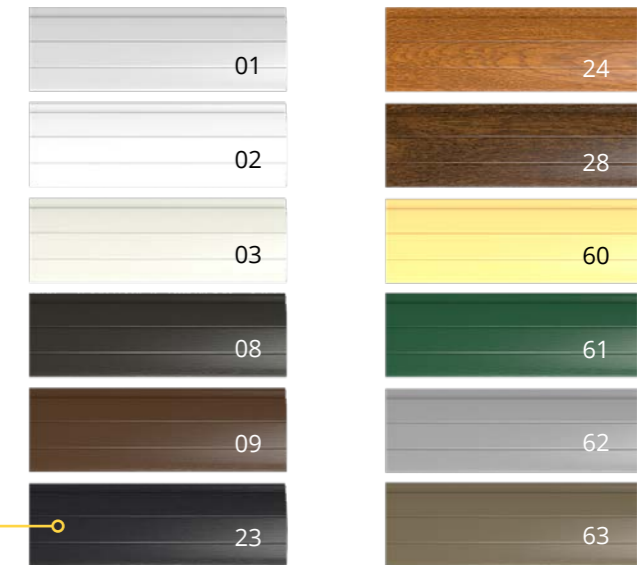
### Did you know that...

Drutex aluminum roller shutters perfectly comply with requirements of smart building. The possibility to control roller shutters with a tablet, a smartphone or a remote control and connect them with the alarm system improve the woodwork usage comfort and determine their safety level.

# Modern design

Roller shutters more and more often are applied both in modern construction as well as classic structures. Their numerous advantages regarding safety, usage comfort and elegant design determine popularity of this solution. Thoughtfully designed structure of Drutex external roller shutters is the work of own research and development department and it ensures great system functionality.

Aluminum shutter slats filled with polyurethane foam are available in a wide range of colors that allows you to customize the appearance of the shutter to the specifics of the building. There is a possibility to apply end slats in the same color, which significantly improves aesthetic qualities and the look of the whole roller shutter. High quality and the stability of the slats guarantee perfect energy efficiency, durability and resistance to wind load. Additionally, the wide color range of the roller shutter slats determines its elegant finish and the solution's aesthetics.



### The armor color range 37 mm:

- |               |                   |
|---------------|-------------------|
| 01 silver     | 24 golden oak     |
| 02 white      | 28 nut-brown      |
| 03 grey       | 60 ivory          |
| 08 dark brown | 61 moss green     |
| 09 brown      | 62 grey aluminum  |
| 23 charcoal   | 63 metallic brown |

### The armor color range 42 mm:

- |               |
|---------------|
| 01 silver     |
| 02 white      |
| 03 grey       |
| 08 dark brown |
| 23 charcoal   |
| 60 ivory      |

### The armor color range 55 mm:

- |               |
|---------------|
| 02 white      |
| 03 grey       |
| 08 dark brown |
| 23 charcoal   |
| 60 ivory      |