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Our sectional garage doors are designed to provide safety and at the same time are aesthetically pleasing. Elegant panels are in line with the latest trends in architecture. Due to the modern design solutions our sectional garage doors can be installed in various types of garages. Choosing our sectional garage door you choose quality, reliability and professionalism at a reasonable price.

Guide rails are made of high quality polymers, which give the doors a unique smoothness and ease of use. The sectional garage panels are operating in vertical plane under the ceiling enabling an easy access to the garage.

The doors do not require headroom clearance of more than 7 cm which allows us to use the space under the ceiling.

Our panels are available in two sizes: 500 mm and 610 mm without ribs, panel with one ribs or small rib panel.

The panels are made of the highest quality zinc plated steel and subjected to further galvanising which makes them solid and more resistant to deformation.
They come in a variety of patterns: panels without ribs, one rib panels or small rib panels.

The sectional garage doors have a coating that provides high resistance of the panel to corrosion. The door panels are made of galvanised steel and they are filled with 40 mm layer of ecological polyurethane foam for thermal insulation. Panel's end caps are protected against corrosion by galvanising.

The door construction is made of high quality steel that ensures long and trouble-free operation.

External texture is available in two types: smooth and woodgrain. There is a wide choice of available colours from the standard ones like white, brown, anthracite, silver and wood-like shades (film finish) like golden oak, walnut, mahogany, rustic oak to individually chosen by a client (it is possible to order a garage door in any RAL colour).

Spring mechanisms with plastic clips and rollers with ball bearings provide quiet opening and closing. All these elements make the door operate lightly and quietly. We offer two kinds of drive: an electric drive by a recognised manufacturer Somfy Systems and a classic manual one.

In the case of industrial sectional doors our clients can choose from chain gear or side industrial drive.
Our garage doors ensure safety.

Door segments protect your fingers against crushing. In the event of power failure the door can be easily open using the emergency release. It is automatically stopped and pulled up when an obstacle happens to be at the door.

The spring systems applied have a minimum service life of 10 000 'open-close' cycles, which guarantees many years of trouble-free operation.

The thick layer of insulation protects the garage against both cold and heat. Panels maintain a constant temperature inside the garage which saves energy.

There is a possibility to install a sectional door with a glass profile or vents that allow light into the garage and provide air circulation where required.

All elements used in the production process have certificates of conformity with relevant technical approvals.

WE OFFER RESIDENTIAL GARAGE DOORS AND INDUSTRIAL GARAGE DOORS.
SECTIONAL VIEW: SECTIONAL GARAGE DOOR

1 - Door panel  
2 - Construction Angle  
3 - Horizontal Guide  
4 - C-Profile galvanised  
5 - Cable Drum  
6 - Steel Tube  
7 - Springs fitting  
8 - Bearing plate  
9 - Coupling  
10 - Upper aluminium profile  
11 - Spring  
12 - Upper seal  
13 - Side strut  
14 - Cable  
15 - Vertical angle  
16 - Track connection plate  
17 - Vertical angle seal  
18 - Upper handle  
19 - Middle hinge  
20 - Roller  
21 - Vertical track  
22 - Side hinges  
23 - Panel end caps  
24 - Reinforcement  
25 - Lock  
26 - Handle (push up)  
27 - Bottom bracket  
28 - Bottom profile  
29 - Bottom seal  
30 - Bumper

SIZES AVAILABLE: SECTIONAL GARAGE DOOR

<table>
<thead>
<tr>
<th>Product</th>
<th>WIDTH max [mm]</th>
<th>HEIGHT max [mm]</th>
<th>REVEAL DEPTH min [mm]</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sectional Door</td>
<td>5000</td>
<td>2870</td>
<td>100</td>
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</table>
TRACK TYPE

- STANDARD, MIN. HEIGHT OF HEADROOM: 350 MM
- RES-200, MIN. HEIGHT OF HEADROOM: 200 MM – HAND OPERATED, 250 MM – ELECTRICALLY OPERATED
- RES-70, MIN. HEIGHT OF HEADROOM: 70 MM – HAND OPERATED, 120 MM – ELECTRICALLY OPERATED

MEASUREMENTS OF GARAGE DOORS

PLEASE FILL IN AN ORDER FORM AND GIVE THE FOLLOWING MEASUREMENTS

- D – Light opening width
- H – Light opening height
- A, B – Reveal width
- C – Headroom height
Rolling garage doors can be installed in newly built buildings as well as already existing structures. Their big advantage is space-saving design. The car can be parked just outside the door and the space under the ceiling does not require any construction and can be used for other purposes.

Rolling garage doors protect construction openings in garages, industrial buildings and warehouses against weather conditions and burglary.

The doors are made of high quality steel which has increased resistance to unfavourable weather conditions and abrasion.

The rolled profile rolls up vertically so it can be successfully used where the driveway is too short or the access to the property is straight from the street.

The product is suitable for mounting both inside and outside the facility.
We offer door profiles in two heights: 55 mm (PA 55) and 77mm (PA 77). The shutter boxes for gates come in four sizes. After the door panel is lifted nothing limits the visibility.
Diversity of colours makes the garage doors a perfect decorative element.

Roller garage doors are equipped with SOMFY or SELVE motors with a wired control system or a radio control system.

All elements used in the production process have certificates of conformity with relevant technical approvals.

Profiles with windows provide lighting of the garage, while profiles with vents ensure air exchange.

SECTIONAL VIEW: ROLLING GARAGE DOORS

1 - Cap with adjustable steel pivot
2 - End cap
3 - Shutter box for gates – base
4 - Security spring
5 - Profile’s side lock
6 - Door curtain
7 - Guide channel
8 - Shutter box for gates – top
9 - Octagonal reel
10 - Adapting ring
11 - Standard motor or motor with emergency manual override
12 - Slats guide
13 - Cardan joint
14 - Bracket
15 - Handle
16 - End slat
## WINDING PARAMETERS FOR ROLLER DOOR

<table>
<thead>
<tr>
<th>Box size</th>
<th>Profil PA 55</th>
<th>Profil PA 77</th>
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<tbody>
<tr>
<td>Door box SK 205</td>
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<td>Door box SK 350</td>
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### MEASURING THE PA 55 ROLLER GARAGE DOOR

**DOOR WIDTH**

opening width + 2 x guide width

**DOOR HEIGHT**

opening height + box height

![Diagram of DOOR WIDTH and DOOR HEIGHT for PA 55]

### MEASURING THE PA 77 ROLLER GARAGE DOOR

**DOOR WIDTH**

opening width + 2 x guide width

**DOOR HEIGHT**

opening height + box height

![Diagram of DOOR WIDTH and DOOR HEIGHT for PA 77]
External roller shutters and top-mounted roller shutters are made of the highest quality materials. Shutters have increased resistance to weather conditions and abrasion confirmed by relevant certificates.

The external roller shutters curtain is filled with durable polyurethane foam and therefore it provides the building with an increased sound insulation contributing to the comfort of its inhabitants.

The profiles are made of high quality metal. Shutters allow you to reduce the cost of energy up to 30%. In the summer they will help to lower temperature inside up to 10 degrees Celsius. To increase your comfort we offer a convenient way to operate our shutters by electrical drives controlled by a switch or remote control.

External roller shutters and top-mounted roller shutters protect your privacy and provide additional protection against burglary.

The use of mosquito nets helps to protect the interior of your home against insects. The shutters come in a wide range of colours and styles to satisfy the most demanding clients.

A large number of profiles’ and components’ colours for external roller shutters systems provides various options for combining shutters with facade and windows.
HOW TO MEASURE THE STANDARD ROLLER SHUTTER

SINGLE ROLLER SHUTTER

HOW TO MEASURE A SINGLE ROLLER SHUTTER:
shutter width = opening width + guide width (x2)
shutter height = opening height + shutter head box height

SHUTTER SET WITH THE SAME HEIGHT

HOW TO MEASURE MORE THAN ONE ROLLER SHUTTER:
set width = opening width + guide width (x2)
set width = S1 + S2 + guide width (x2)
B1 = S1 + P1 guide width
B2 = S2 + P1 guide width
shutter height = opening height + shutter head box height

WINDOW - DOOR SHUTTER SET

HOW TO MEASURE MORE THAN ONE ROLLER SHUTTER:
window - door shutter set width = opening width + P1 guide width (x2)
window - door shutter set = S1 + S2 + P1 guide width (x2)
B2 = S2 + P1 guide width (x2)
B1 = S1
h1 height = 1st opening height + shutter head box height
h2 height = 2nd opening height + shutter head box height
SINGLE ROLLER SHUTTER

HOW TO MEASURE A SINGLE ROLLER SHUTTER:
shutter width = opening width
shutter height = opening height

SHUTTER SET WITH THE SAME HEIGHT

HOW TO MEASURE MORE THAN ONE ROLLER SHUTTER:
shutter set width = opening width
shutter set width = S1 + S2
B1 = S1
B2 = S2
shutter height = opening height

WINDOW - DOOR SHUTTER SET

HOW TO MEASURE MORE THAN ONE ROLLER SHUTTER:
Window - door shutter set width = opening width
Window - door shutter set width = S1 + S2
B1 = S1
B2 = S2
height h1 = 1st opening height
height h2 = 2nd opening height
SECTIONAL VIEW: STANDARD ROLLER SHUTTER

1 - Shutter box - top
2 - Shutter box - base
3 - End cap
4 - Octagonal reel
5 - Adapting ring
6 - Cap
7 - Ball bearing
8 - Pulley
9 - Entry guide
10 - Steel retainer spring
11 - Aluminium profile
12 - Profile's side lock
13 - Endslat
14 - Endslat's side lock
15 - Guide channel

WINDING PARAMETERS FOR STANDARD ROLLER SHUTTER WITHOUT MOSQUITO NET

<table>
<thead>
<tr>
<th>Product</th>
<th>PA 39 reel</th>
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<th>PA 40 reel</th>
<th>PA 40 reel</th>
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</table>
There are also shutters equipped with a MOSQUITO system protecting interiors against insects. The system excludes insects without limiting visibility or the flow of air.

SECTIONAL VIEW: A STANDARD ROLLER SHUTTER WITH A MOSQUITO SYSTEM APPLIED

WINDING PARAMETERS FOR STANDARD ROLLER SHUTTERS WITH MOSQUITO NET

<table>
<thead>
<tr>
<th>Product</th>
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<td>2500 mm</td>
<td>2470 mm</td>
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</table>
Oval roller shutters are aesthetically appealing while maintaining all practical aspects of the shutters due to the rounded shapes of a shutter box and mask for guides. Oval shutters can be installed on already existing buildings.

SECTIONAL VIEW: OVAL ROLLER SHUTTER

1 - Shutter box Oval system - top
2 - Shutter box Oval system - base
3 - Round end caps
4 - Galvanized screw
5 - Galvanized screw - PVC caps with cover
6 - Aluminium rivets
7 - Octagonal reel
8 - Adapting ring
9 - Cap
10 - Ball bearing
11 - Pulley
12 - Entry guide
13 - Steel retainer spring
14 - Aluminium profile
15 - Profile's side lock
16 - Endslat
17 - Endslat's side lock
18 - Guide channel
19 - Guide plate
20 - Mask for guides
Shutters with rolled-up mosquito net protect your home against mosquitos.

SECTIONAL VIEW: OVAL ROLLER SHUTTERS WITH MOSQUITO NET

1.1 - Coupling with the spring
1.2 - Slide bearing
1.3 - Entry guide
1.4 - Endslat’s side lock
1.5 - String
1.6 - Cap seat
2 - Round reel with mosquito net
3 - Endslat for mosquito net
4 - Safety plate for end cap
5 - Brake (optional)
6 - Double guide channel with seals

WINDING PARAMETERS FOR OVAL ROLLER SHUTTERS WITHOUT MOSQUITO NET

<table>
<thead>
<tr>
<th>Product</th>
<th>PA 39 reel Φ 40</th>
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WINDING PARAMETERS FOR OVAL ROLLER SHUTTERS WITH MOSQUITO NET

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</table>
Integro roller shutters are mounted on a newly built structures or in already existing facilities after applying necessary changes within the lintel area. The system comprises of a built-up shutter box to help architects and designers provide the optimal solution. The shutter box is integrated into the lintel and blends into the facade.

The product can be used with a roll-up mosquito net which helps protect the interior of your house from insects.
SECTIONAL VIEW: INTEGRO ROLLER SHUTTER WITH MOSQUITO NET

1.1 - Coupling with the spring
1.2 - Slide bearing
1.3 - Bracket
1.4 - Entry guide
1.5 - Endslat’s slide lock
1.6 - String
1.7 - Cap seat
2 - Round reel with mosquito net
3 - Endslat for mosquito net
4 - Steel retainer for the Moskito system

WINDING PARAMETERS FOR INTEGRO ROLLER SHUTTERS WITHOUT MOSQUITO NET

<table>
<thead>
<tr>
<th>Product</th>
<th>PA 39 reel Φ 40</th>
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</table>
HOW TO MEASURE THE INTEGRO ROLLER SHUTTER

SINGLE ROLLER SHUTTER

**INTEGRO shutter 150**
- Width: 1330 mm, 940 mm, 800 mm, 640 mm, 890 mm, 750 mm
- Height: 1690 mm, 1650 mm, 1170 mm, 1050 mm, 1210 mm, 1120 mm

**INTEGRO shutter 165**
- Width: 2240 mm, 1850 mm, 1600 mm, 1500 mm, 1710 mm, 1490 mm
- Height: 2500 mm, 2500 mm, 2500 mm, 2470 mm, 2500 mm, 2500 mm

**INTEGRO shutter 180**
- Width: 2500 mm, 2500 mm, 2500 mm, 2470 mm, 2500 mm, 2500 mm
- Height: 2500 mm, 2500 mm, 2500 mm, 2470 mm, 2500 mm, 2500 mm

**INTEGRO shutter 205**
- Width: 2500 mm, 2500 mm, 2500 mm, 2470 mm, 2500 mm, 2500 mm
- Height: 2500 mm, 2500 mm, 2500 mm, 2470 mm, 2500 mm, 2500 mm

WINDING PARAMETERS FOR INTEGRO ROLLER SHUTTERS WITH MOSQUITO NET

<table>
<thead>
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HOW TO MEASURE MORE THAN ONE ROLLER SHUTTER:
- Width of the set of shutters: \( S1 + S2 \)
- Shutter 1 width: \( B1 \)
- Shutter 2 width: \( B2 \)
- Shutter's height: \( H \)
SET OF TWO ROLLER SHUTTERS OF THE SAME HEIGHT

HOW TO MEASURE MORE THAN ONE ROLLER SHUTTER:
- Width of the set of shutters $= S_1 + S_2$
- $B_1 = S_1$
- $B_2 = S_2$
- Shutter's height $= H$

SET OF TWO ROLLER SHUTTERS: WINDOW + DOOR

HOW TO MEASURE MORE THAN ONE ROLLER SHUTTER:
- Width of the set of shutters $= S_1 + S_2$
- $B_1 = S_1$
- $B_2 = S_2$
- 1st shutter's height $= H_1$
- 2nd shutter's height $= H_2$
Opoterm top-mounted roller shutters are installed when the building is under construction or during major refurbishment. The shutter box is hidden behind the course of brickwork and therefore it blends seamlessly with the facade of the building. Revision panel is placed at the bottom or at the front of the shutter box.
1.1 - Coupling with the spring
1.2 - Slide bearing
1.3 - Bracket
1.4 - Endslat’s side lock
1.5 - String
1.6 - Cap seat
2 - Round reel with mosquito net
3 - Endslat for mosquito net
4 - Brake (option)
5 - Revision profile - base
6 - Box insulation
7 - End cap
8 - Guide channel
9 - Guide channel’s side lock

WINDING PARAMETERS FOR OPOTERM ROLLER SHUTTER WITHOUT MOSQUITO NET

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<th>Product</th>
<th>PA 39 reel Φ 40</th>
<th>PA 39 reel Φ 60</th>
<th>PA 40 reel Φ 40</th>
<th>PA 40 reel Φ 60</th>
<th>PA 45 reel Φ 40</th>
<th>PA 45 reel Φ 60</th>
<th>PA 52 reel Φ 60</th>
</tr>
</thead>
<tbody>
<tr>
<td>OPOTERM box 170</td>
<td>1890 mm</td>
<td>1730 mm</td>
<td>1090 mm</td>
<td>1130 mm</td>
<td>1120 mm</td>
<td>1170 mm</td>
<td>1170 mm</td>
</tr>
<tr>
<td>OPOTERM box 210</td>
<td>1890 mm</td>
<td>1730 mm</td>
<td>1090 mm</td>
<td>1130 mm</td>
<td>1120 mm</td>
<td>1170 mm</td>
<td>1170 mm</td>
</tr>
<tr>
<td>OPOTERM box 240</td>
<td>1890 mm</td>
<td>1730 mm</td>
<td>1090 mm</td>
<td>1130 mm</td>
<td>1120 mm</td>
<td>1170 mm</td>
<td>1170 mm</td>
</tr>
</tbody>
</table>
WINDING PARAMETERS FOR OPOTERM ROLLER SHUTTER WITH MOSQUITO NET

<table>
<thead>
<tr>
<th>Product</th>
<th>PA 39 reel Φ 40</th>
<th>PA 39 reel Φ 60</th>
<th>PA 40 reel Φ 40</th>
<th>PA 40 reel Φ 60</th>
<th>PA 45 reel Φ 40</th>
<th>PA 45 reel Φ 60</th>
<th>PA 52 reel Φ 60</th>
</tr>
</thead>
<tbody>
<tr>
<td>OPOTERM box 170</td>
<td>1600 mm</td>
<td>1220 mm</td>
<td>890 mm</td>
<td>890 mm</td>
<td>940 mm</td>
<td>940 mm</td>
<td>910 mm</td>
</tr>
<tr>
<td>OPOTERM box 210</td>
<td>2490 mm</td>
<td>1980 mm</td>
<td>1600 mm</td>
<td>1390 mm</td>
<td>1600 mm</td>
<td>1680 mm</td>
<td>1450 mm</td>
</tr>
<tr>
<td>OPOTERM box 240</td>
<td>2500 mm</td>
<td>2500 mm</td>
<td>2500 mm</td>
<td>2500 mm</td>
<td>2500 mm</td>
<td>2500 mm</td>
<td>2450 mm</td>
</tr>
</tbody>
</table>

HOW TO MEASURE THE TOP-MOUNTED ROLLER SHUTTERS

SINGLE ROLLER SHUTTERS

HOW TO MEASURE A SINGLE ROLLER SHUTTER:

- **Shutter’s width** = Window’s width
- **B** = S
- **Shutter’s height** = Window’s height + box’s height
- **H** = h + box’s height
SET OF ROLLER SHUTTERS OF THE SAME HEIGHT

**HOW TO MEASURE MORE THAN ONE ROLLER SHUTTER:**

Width of the set of shutters = 1st window’s width + 2nd window’s width

Width of the set of shutters = S1 + S2

B1 = S1

B2 = S2

Shutter’s height = window’s height + box’s height

H = h + box’s height

SET OF ROLLER SHUTTERS: WINDOW - DOOR

**HOW TO MEASURE MORE THAN ONE ROLLER SHUTTER:**

Width of the set of shutters = window’s width + door’s width

width of the set of shutters = S1 + S2

B1 = S1

B2 = S2

1st shutter’s height = window’s height + box’s height

H1 = h1 + box’s height

2nd shutter’s height = door’s height + box’s height

H2 = h2 + box’s height
<table>
<thead>
<tr>
<th>TYPE OF ADAPTER</th>
<th>MANUFACTURE AND WINDOW PROFILE</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSAW/8</td>
<td>DOBROPLAST: Avantgarde 7000, Avantgarde 9000, Ovlo, Ovlo Classic, Encore, Prime</td>
</tr>
<tr>
<td></td>
<td>GEALAN: S 8000 IQ, S 8000 IQ+, S 3000, 5001</td>
</tr>
<tr>
<td></td>
<td>KBE (PROFINE): Nova 70, 5401KBE 70, 5401KBE 58</td>
</tr>
<tr>
<td></td>
<td>KOEMERLING: 5401KO Eurodur, 5402KO Futur</td>
</tr>
<tr>
<td></td>
<td>PROFIALIS: Dimex Komfort 60</td>
</tr>
<tr>
<td></td>
<td>REHAU: Basis/Thermo/Nova 60 mm, Basis/Thermo/Nova 70 mm</td>
</tr>
<tr>
<td></td>
<td>STOECKEL: 3113, EcoDesign + Twinste</td>
</tr>
<tr>
<td></td>
<td>THYSSEN: 5402THP Prestige</td>
</tr>
<tr>
<td></td>
<td>TROCAL: 88+</td>
</tr>
<tr>
<td>PSA</td>
<td>BRUEGMANN: AD/MD, bluEvolution 82 AD/MD</td>
</tr>
<tr>
<td></td>
<td>FORIS: 100, 500, 501</td>
</tr>
<tr>
<td></td>
<td>KBE (PROFINE): 80 Plus</td>
</tr>
<tr>
<td></td>
<td>KOEMERLING: 80+</td>
</tr>
<tr>
<td></td>
<td>LB-PROFILE: CL4-25, AL 7-5, AL 1-3</td>
</tr>
<tr>
<td></td>
<td>PROFIALIS: 2500, 300</td>
</tr>
<tr>
<td></td>
<td>ROPLASTO: 5402ROP 58 mm</td>
</tr>
<tr>
<td></td>
<td>TROCAL: Seria 9000</td>
</tr>
<tr>
<td>PSAW/6,8</td>
<td>ACTUAL: 70</td>
</tr>
<tr>
<td></td>
<td>ALUPLAST: Ideal 2000, Ideal 3000, Ideal 4000, Ideal 5000, Ideal 6000, Ideal 7000, Ideal 8000</td>
</tr>
<tr>
<td></td>
<td>BRUEGMANN: bluEvolution 92, Salamander SL/3D, Salamander 2D 70, Salamander 2D</td>
</tr>
<tr>
<td></td>
<td>DRUTEX: Iglo 5</td>
</tr>
<tr>
<td></td>
<td>INOUTIC: Arkade</td>
</tr>
<tr>
<td></td>
<td>PROFIALIS: Zendow</td>
</tr>
<tr>
<td></td>
<td>SCHUECO: Corona CT70, Corona AS60</td>
</tr>
<tr>
<td></td>
<td>VEKA: Alphaline 90MD, Efectline, Perfectline, Sofline 82, Sofline 213, Topline 70AD</td>
</tr>
<tr>
<td></td>
<td>THYSSEN: 5402THY Elite</td>
</tr>
<tr>
<td>PSAW/7</td>
<td>DRUTEX: Iglo energy</td>
</tr>
<tr>
<td></td>
<td>INOUTIC: Eforte</td>
</tr>
<tr>
<td></td>
<td>SCHUECO: Corona SI82</td>
</tr>
<tr>
<td></td>
<td>WOJMARPLAST: e Forte</td>
</tr>
<tr>
<td>PSAW/8/2</td>
<td>GEALAN: S 9000</td>
</tr>
<tr>
<td></td>
<td>TROCAL: InnoNova 70.A5 classic, InnoNova 70.A5elegance, InnoNova 70.A5natura, InnoNova 70.A5balance, InnoNova 70 A</td>
</tr>
</tbody>
</table>
Cleverbox top-mounted roller shutters are installed when the building is under construction or during major refurbishment. Front profile of the shutter box can be hidden in the wall what makes the box invisible from the outside. There are two models of Cleverbox roller shutters available: Cleverbox (with the access plate at the bottom) and Cleverbox Mini (with the access plate at the front and at the bottom). The mosquito net protects your home from insects.

SECTIONAL VIEW: CLEVERBOX ROLLER SHUTTER

1 - Side/End cap
2 - Connecting plate
3 - Guide channel for curtain
4 - Endslat for mosquito net
5 - Guide channel for mosquito net
6 - Stop for endslat for mosquito net
7 - Profile
8 - Profile's side lock
9 - Endslat's side lock
10 - Shutter’s endslat
11 - Entry guide
12 - Ball bearing
13 - Pulley
14 - Front profile - outside
15 - Top profile of the box
16 - Spring for mosquito net
17 - Mosquito net's cover
18 - Adapting profile
19 - Bottom profile of the box
20 - Mosquito net
21 - Spring system
22 - Reel's end plug
23 - Box insulation
24 - Tape guide
25 - Access plate cover
26 - Front profile - inside
27 - Profile hanger
28 - Tape
29 - Recoil box
30 - Adapting ring
31 - Octagonal reel
SECTIONAL VIEW: CLEVERBOX MINI ROLLER SHUTTER

1. Side/End cap Mini
2. Connecting plate
3. Guide channel for curtain
4. Endslat for mosquito net
5. Guide channel for mosquito net
6. Stop for endslat for mosquito net
7. Profile
8. Profile’s side lock
9. Endslat’s side lock
10. Shutter’s endslat
11. Entry guide
12. Ball bearing
13. Pulley
14. Front profile - outside
15. Top profile of the MINi box
16. Spring system
17. Mosquito net’s cover
18. Adapting profile
19. Bottom profile of the box
20. Mosquito net
21. Spring system
22. Reel’s end plug
23. Box insulation
24. Tape guide
25. Access plate cover MINI
26. Profile hanger
27. Tape
28. Recoil box
29. Octagonal reel
30. Adapting ring

WINDING PARAMETERS FOR CLEVERBOX TOP-MOUNTED ROLLER SHUTTERS

<table>
<thead>
<tr>
<th>Product</th>
<th>PA 39</th>
<th>PA 40</th>
<th>PA 45</th>
</tr>
</thead>
<tbody>
<tr>
<td>CLEVERBOX 165</td>
<td>2000 mm</td>
<td>1300 mm</td>
<td>1500 mm</td>
</tr>
<tr>
<td>CLEVERBOX 165 with mosquito net</td>
<td>1000 mm</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>CLEVERBOX 205</td>
<td>2700 mm</td>
<td>2000 mm</td>
<td>2300 mm</td>
</tr>
<tr>
<td>CLEVERBOX 205 with mosquito net</td>
<td>2550 mm</td>
<td>1700 mm</td>
<td>1850 mm</td>
</tr>
<tr>
<td>CLEVERBOX 245</td>
<td>3500 mm</td>
<td>2700 mm</td>
<td>3300 mm</td>
</tr>
<tr>
<td>CLEVERBOX 245 with mosquito net</td>
<td>2550 mm</td>
<td>2550 mm</td>
<td>2550 mm</td>
</tr>
</tbody>
</table>
Free Hanging Roller Blinds

Roller blinds have been enjoying enormous popularity thanks to their aesthetic and simple design. There are two types of free pendent roller blinds: MINI designed to be mounted on the window sash and STANDARD which is ideally suited to cover wide bay windows.

These blinds undoubtedly give a decorative touch to any interior, but it’s not their only function. They provide an excellent solution for preventing unwanted sun.

They can be fixed to the window with screws or installed in a non-invasive way. Due to the use of self-stopping system you can stop the blind at the exact position you want.

Additionally, the blinds equipped with the trimmers or magnets perform well even in the case of tilting windows or drafts. Moreover, the STANDARD roller blind can be mounted on the wall or on the ceiling.

Simple and elegant design makes the blinds an ideal choice for both offices and private apartments.
**MINI FREE HANGING ROLLER BLINDS**

**SECTIONAL VIEW: MINI FREE PENDENT ROLLER BLINDS**

1. Bracket MINI + caps
2. Bearing insert MINI
3. Chain mechanism MINI
4. Reinforced tape 19 mm
5. MINI ball chain
6. Ball chain connector
7. Top steel retainer
8. Adhesive tape 15 mm
9. Plug MINI Φ 17 mm
10. Steel tube Φ 17 mm
11. Bottom hook
12. Bottom rail plug
13. Guidance pin
14. Adhesive lath
15. Bottom rail
16. String
17. Fabric

**FABRIC RANGE:**
A wide range of beautiful colours and patterns enhance the interior arrangement.

**THE MECHANISMS COME IN:**
white and brown.

**SIZES AVAILABLE - MINI FREE PENDENT ROLLER BLINDS**

<table>
<thead>
<tr>
<th>Product</th>
<th>Min Width [mm]</th>
<th>Max Width [mm]</th>
<th>Max Height [mm]</th>
</tr>
</thead>
<tbody>
<tr>
<td>Free hanging roller blinds</td>
<td>250</td>
<td>1400</td>
<td>depending on the selected fabric</td>
</tr>
</tbody>
</table>
STANDARD FREE HANGING ROLLER BLINDS

SECTIONAL VIEW: STANDARD FREE PENDENT ROLLER BLINDS

FABRIC RANGE:
A wide range of beautiful colours and patterns enhance the interior arrangement.

THE MECHANISMS COME IN:
white and brown.

SIZES AVAILABLE - STANDARD LOOSE HANGING ROLLER BLINDS

<table>
<thead>
<tr>
<th>Product</th>
<th>Min Width min. [mm]</th>
<th>Max Width [mm]</th>
<th>Max Height [mm]</th>
</tr>
</thead>
<tbody>
<tr>
<td>Free hanging roller blinds</td>
<td>300</td>
<td>2400</td>
<td>depending on the selected fabric</td>
</tr>
</tbody>
</table>
Cassette roller blinds with side rails are aesthetic window blinds at an affordable price. The cassette protects the fabric against the elements prolonging its life. The side rails make the fabric always adhere to the window, even in the case of tilting windows. Cassette roller blinds with side rails are mounted to the window sash.

THERE ARE TWO TYPES OF CASSETTE ROLLER BLINDS WITH SIDE RAILS:
- BAMAR with a modern looking cassette and C shaped side rails
- MAGNOLIA with a rounded cassette and flat siderails

Cassette roller blind with side rails can be used both to enhance the decor of the room as well as provide an excellent solution for preventing unwanted sunlight from entering a room.

The Bamar system is totally non-invasive as the cassette and the guides are mounted on the window sash using double-sided adhesive tape, whereas in the case of Magnolia system the head box is fixed with the screws and the side rails using adhesive tape.

The blinds are equipped with a self-locking mechanism that allows you to stop them at the desired height.

COLOURS AVAILABLE FOR CASSETTES AND SIDERAILS:
BAMAR: white, brown, gray anthracite, golden oak, walnut, mahogany, wenge.
MAGNOLIA: white, brown, golden oak, walnut.

THE FABRIC FOR OUR BLINDS COME IN A WIDE RANGE OF COLOURS.
SECTIONAL VIEW: BAMAR CASSETTE ROLLER BLINDS WITH SIDE RAILS

EXPLODED VIEW: MAGNOLIA CASSETTE ROLLER BLINDS WITH SIDE RAILS

SIZES AVAILABLE - CASSETTE ROLLER BLINDS WITH SIDE RAILS

<table>
<thead>
<tr>
<th>Product</th>
<th>Min Width [mm]</th>
<th>Max width PVC [mm]</th>
<th>Max width ALU [mm]</th>
<th>Max height [mm]</th>
</tr>
</thead>
<tbody>
<tr>
<td>BAMAR roller blind</td>
<td>300</td>
<td>1800</td>
<td>2000</td>
<td>depending on the selected fabric</td>
</tr>
<tr>
<td>MAGNOLIA roller blind</td>
<td>300</td>
<td>not applicable</td>
<td>1600</td>
<td>depending on the selected fabric</td>
</tr>
</tbody>
</table>
The Day and Night roller blinds is an interesting and contemporary solution. They combine the function of blinds, roller blinds and window curtain in one. Day and Night roller blinds can be of two types: free hanging type and cassette type.

Day and Night system allows adjustable amount of sunlight using fabric that combines translucent and opaque horizontal stripes. Two layers of striped fabric are joined together, and by pulling down the chain the opaque and translucent stripes glide past each other and easily adjust sunlight.

THE DAY AND NIGHT ROLLER BLINDS COME IN A WIDE RANGE OF COLOURS AND STYLES.
DAY AND NIGHT ROLLER BLINDS
MINI

SECTIONAL VIEW: DAY AND NIGHT MINI FREE HANGING ROLLER BLINDS

1 - Top steel retainer spring
2 - Top lath D&N
3 - Metal clip
4 - Foam tape
5 - Bracket D&N MINI
6 - D&N MINI mechanism
7 - Cover plate D&N MINI
8 - Tube
9 - Plug D&N MINI
10 - Adhesive tape
11 - Reinforced tape 19 mm
12 - Fabric D&N
13 - Tube and bottom rail connector
14 - Bottom tube’s plug D&N
15 - Weight bar D&N
16 - Bottom weight D&N

DAY AND NIGHT ROLLER BLINDS
STANDARD

SECTIONAL VIEW: DAY AND NIGHT STANDARD FREE HANGING ROLLER BLIND

1 - Metal clip
2 - Bracket D&N STANDARD H
3 - Mounting rail STANDARD
4 - Bracket D&N STANDARD V
5 - Profile STANDARD
6 - Screw
7 - Adhesive bar
8 - Bearing insert D&N STANDARD
9 - Tube bearing plug D&N STANDARD
10 - Mechanism D&N STANDARD
11 - Tube
12 - Chain connector
13 - Ball chain
14 - D&N Fabric
15 - D&N bottom bar’s side lock
16 - D&N bottom weight
17 - D&N weight bar
18 - Tube and bottom weight connector
DAY AND NIGHT ROLLER BLINDS
CASSETTE ROLLER BLIND

SECTIONAL VIEW: DAY AND NIGHT CASSETTE ROLLER BLIND

1 - BAMAR D&N cassette
2 - Foam tape 19 mm
3 - Screw
4 - Tube
5 - Tube’s side lock
6 - Bracket cover
7 - Mechanism BAMAR D&N
8 - Reinforced tape 19 mm
9 - Adhesive bar
10 - Foam tape
11 - BAMAR guide channel
12 - Ball chain loop
13 - D&N fabric
14 - Weight bar

SIZES AVAILABLE: DAY AND NIGHT ROLLER BLINDS

<table>
<thead>
<tr>
<th>Product</th>
<th>Min width [mm]</th>
<th>Max width PCV [mm]</th>
<th>Max width ALU [mm]</th>
<th>Max height [mm]</th>
</tr>
</thead>
<tbody>
<tr>
<td>Free hanging roller blind</td>
<td>300</td>
<td>1800</td>
<td>2000</td>
<td>depends on the selected fabric</td>
</tr>
</tbody>
</table>

depends on the selected fabric

Free hanging roller blind

Formelana
Roof window blinds are an ideal solution for loft windows. They protect your room from sunlight and in the summer they lower the inside temperature.

The fabric is always stretched due to the use of spring mechanism. The fabric can be stopped at the desired position as the roller blind is equipped with a handle grip and a brake.

The guide channel and the bottom bar with the brush seal roller blind perfectly adheres to the window.
Roof window blinds are compatible with all skylights available in Poland and abroad.

COLOURS AVAILABLE
STANDARD TYPE: SILVER
WOOD-LIKE TYPE: LIGHT PINE, DARK PINE.
Wooden blinds have natural beauty that gives any interior a unique charm and subtle touch. The materials used for components of wooden blinds are of highest quality and durability.

Wooden blinds are made of solid basswood. The product has aesthetic trim and fittings such as the valance, bottom rail and wooden end of the string.

Wooden blinds can be mounted on the window, on the wall and to the ceiling.

Width of slats: 25 mm and 50 mm.

The 25 mm wooden blind - operated by a cord (raising and lowering) and a tilt wand (to control the amount of light that comes in through the window).

The 50 mm wooden blind - all functions (raising, lowering, controlling) are operated by cord.

SLATS, VALANCES AND BOTTOM RAILS COME IN A WIDE RANGE OF COLOURS.
SECTIONAL VIEW: 25MM WOODEN BLIND

1 - Headrail
2 - Wooden bottom rail
3 - Tape roll support
4 - Tape roll
5 - Rod
6 - Rod connector
7 - Cord lock
8 - Wand tilter
9 - Wood wand hook
10 - Wood wand end
11 - End cap for head rail
12 - Stop ring
13 - Twist bracket
14 - Magnet
15 - Valance bracket
16 - Valance
17 - Cord lock
18 - Wooden slat 25 mm
19 - Cord
20 - Wooden wand
21 - Cord tassel
22 - Bottom rail button
23 - Angle installation bracket
24 - String Socket
25 - Ladder tape
26 - Steel cord

SECTIONAL VIEW: 50MM WOODEN BLIND

1 - Headrail
2 - Wooden bottom rail
3 - Cord lock
4 - Tape Roll support 51x57
5 - Tape roll
6 - Square rod 6x6
7 - Tilter 50 mm
8 - Ring for tilt rod
9 - End cap for head rail
10 - Conical spring
11 - Stop ring
12 - Twist bracket 50 mm
13 - Magnet
14 - Magnet bracket
15 - Valance clip
16 - Valance
17 - Plastic clip
18 - Cord
19 - Cord tassel
20 - Wood button of bottom rail
21 - Stop ring
22 - Angle installation bracket
23 - Guidance pin
24 - Ladder tape
25 - Wooden slat 50 mm
26 - Steel cord
standard venetian blinds

Aluminium Venetian blinds are traditional window blinds. They are made of high quality materials, thus ensuring long use and enjoyment.

Venetian blinds can control the amount of sunlight entering the room without being elevated up. Venetian blind is operated by cord and wand. It can be mounted on the wall, on the window or the ceiling.

Width of slats: 16 mm and 25 mm.

Control the sunlight level in the room.

AVAILABLE IN A WIDE RANGE OF COLOURS THEY ARE IDEAL FOR ANY DECOR.
1 - Headrail
2 - Bottom rail
3 - Tape roll
4 - Tilter
5 - Hook for plastic wand
6 - Transparent wand
7 - Cord lock
8 - Tape Roll support
9 - Tilt rod
10 - Metal Axle
11 - Plastic sleeve
12 - Plastic bracket
13 - Bolt for plastic bracket
14 - Stop ring
15 - Headrail cap
16 - Clip
17 - Aluminium slat
18 - Ladder tape
19 - Bottom rail side lock
20 - Mansard angle
21 - Cord button
22 - Angle installation bracket
23 - Bottom rail side lock
24 - End of plastic wand
25 - Cord tassel
26 - Cord
27 - Plastic wire

1 - Head Rail
2 - Bottom Rail
3 - Ladder tape
4 - Tape Roll
5 - Tape Roll support
6 - Tilt Rod
7 - Wire + Steel sleeve + steel coupling
8 - End Cap for Head Rail
9 - Inter-glass blind bracket
10 - Clip
11 - Cord Guide with metal eyelet
12 - Cord
13 - Cord roll
14 - Plastic wand
15 - Cord tassel
16 - Zaczep pokrętła
17 - Bottom plug
18 - Bottom rail side lock
19 - Aluminium tape

Min Width: 260 mm
Max Width: 2400 mm
Max Height: 2400 mm
Max Surface: 5,76 m²
Venus Venetian Blinds add contemporary touch to your home. They are made of high quality materials. They perfectly protect any interior against sunlight.

Venus Venetian Blinds are controlled with a ball chain. The blind is mounted on a window sash. The string lead makes the blind always adhere to the window, whereas flat head rail does not interfere with wide opening of the window.

Width of slats: **16 mm and 25 mm.**
SECTIONAL VIEW: VENUS VENETIAN BLINDS

1 - Head Rail
2 - Bottom Rail C
3 - Hexagonal Rod
4 - Tape Roll Support
5 - Tape roll VENUS
6 - Gear box
7 - Ball Chain
8 - Distance plate
9 - Mounting Plate
10 - Side cover
11 - Side guide for plastic wire
12 - Clip
13 - Ladder Clip
14 - Aluminium Slat
15 - Ball Chain Connector
16 - Ball chain cleat
17 - Bottom Rail End C-Type
18 - Tape Lock Button
19 - Ladder button
20 - Bottom lock for plastic wire
21 - Guidance pin
22 - Cord ladder
23 - Control Cord
24 - Plastic wire

SIZES AVAILABLE: ALUMINIUM VENUS BLIND

<table>
<thead>
<tr>
<th>Type of Blind</th>
<th>Min Width. [mm]</th>
<th>Max Width [mm]</th>
<th>Max Height [mm]</th>
<th>Max Surface [m²]</th>
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</thead>
<tbody>
<tr>
<td>Venus 16 mm</td>
<td>330</td>
<td>2000</td>
<td>2200</td>
<td>4,4</td>
</tr>
<tr>
<td>Venus 25 mm</td>
<td>330</td>
<td>2000</td>
<td>2200</td>
<td>4,4</td>
</tr>
</tbody>
</table>
Kama Style Venetian Blind give a contemporary touch to your window. Kama Style Venetian Blind protects your room against sunlight.

Width of slats: **16 mm and 25 mm.**

Product is equipped with a brake mechanism so the blind can be stopped at the desired height. Kama Style Venetian Blind is operated with a ball chain.

Blind has a string lead which makes it always adhere to the window.

Flat head rail does not interfere with the smooth and wide opening of the window.

IT IS DESIGNED TO BE MOUNTED ON THE WINDOW SASH. THE SLATS AND THE VALANCE COME IN A WIDE RANGE OF COLOURS TO MATCH ANY INTERIOR.
SIZES AVAILABLE: ALUMINIUM KAMA-STYLE BLIND

<table>
<thead>
<tr>
<th>Type of blind</th>
<th>Min Width [mm]</th>
<th>Max Width [mm]</th>
<th>Max Height [mm]</th>
<th>Max Surface [m²]</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kama-Styl 16 mm</td>
<td>340</td>
<td>1800</td>
<td>2400</td>
<td>4,32</td>
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<td>340</td>
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vertical blinds

Vertical Blinds add an impressive touch to any decor. They are ideally suited for covering wide, glazed openings.

They are especially meant for commercial spaces giving them a unique feel and style. They can be mounted on walls, ceilings or at the bay windows.

Width of slats: **89 mm and 127 mm.**

Our Vertical Blinds are characterised by variety of colours, textures and patterns of fabric we use.

Our wide selection includes diverse fabric with special features confirmed by hygienic certificates and certificates of flame retardant so our blinds can be used in public buildings.

We are able to produce electrically operated vertical blinds (special order).
SECTIONAL VIEW: VERTICAL BLIND

1 - Aluminium Head Rail rounded
2 - End set rounded
3 - Pulling cord for vertical blinds
4 - Plastic ring
5 - Plastic link runner with hook
6 - Rod
7 - Plastic spacer adjuster
8 - Spacer Adaptor
9 - Rod support with magnet
10 - Cord drive runner
11 - Retaining washer
12 - Distance tube
13 - Angle bracket
14 - Metal clip
15 - Slat Weight
16 - Connecting ball chain
17 - Pulling cord weight
18 - Ball Chain Connector
19 - Fabric
20 - Operating ball chain
21 - Slat holder

SIZES AVAILABLE: VERTICAL BLIND

<table>
<thead>
<tr>
<th>Product</th>
<th>Min Width [mm]</th>
<th>Max Width [mm]</th>
<th>Max Height [mm]</th>
<th>Max Surface [m²]</th>
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</thead>
<tbody>
<tr>
<td>Vertical Blind</td>
<td>300</td>
<td>5000</td>
<td>4000</td>
<td>20</td>
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</table>
Panel Blinds combine aesthetics and an oriental touch of a curtain in a contemporary way. The product consists of a head rail and the sliding panels. They are recommended as a good alternative to curtains and lace curtains.

Panel blinds can be used as a window curtain as well as partitions within a room. Range of fabric available for panel blinds is the same as for roller blinds.

Available width of a panel: **50 cm to 120 cm.**

Number of panels: **2 to 5.**

Panel Blinds can be mounted on ceilings, walls and recess.

**THE COLOUR OF HEAD RAIL:** white.
Panel Blinds can be mounted on ceilings, walls and recess.

1. Top Rail 2, 3, 4, 5 track
2. TWIST Hanger
3. Square plug with a screw
4. Rail's Side Lock
5. Fabric
6. Cord Connector
7. Cord Weight
8. Braking Angle
9. Master Runner
10. T-profile
11. Carrier linkage System
12. Bottom Weight
13. Cord

SIZES AVAILABLE: PANEL BLINDS

<table>
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<tr>
<th>Product</th>
<th>Number of tracks</th>
<th>Min Width [mm]</th>
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framed mosquito nets

Mosquito nets protects facilities against insects. Mosquito Frame is made of solid extruded profile and mosquito nets is made of high quality fiber glass in grey.

The net is resistant to atmospheric agents and it has plastic corners. The frame’s profile has a flange which adheres to the window increasing the tightness of the system.

Mosquito Frames are designed to be mounted on most commercially available window profiles.

STANDARD COLOURS OF FRAMES:
white, brown, grey anthracite.

WOOD-LIKE FINISH:
golden oak, walnut, mahogany.
TO SELECT THE RIGHT HOOK, FOLLOW THE FORMULA:

A - the height of the hook
B - the thickness of the window profile
A = B - 9 mm

If the A value differs from the values given in the chart below, to select the right size of the hook add +/- 1mm. The hook should adhere to the seal, but it shouldn’t damage it.
Rolling Mosquito Nets is a proven way to protect the interior against insects. There are two types of Rolling Mosquito Nets available: for window and for terraces.

They can be mounted on windows, walls or recesses. The system comprises of a cassette with net and guide channels.

The spring mechanism rolls the net inside the cassette. Mosquito net is made of high quality materials.

The net is made of high-class fibreglass (in grey). The net used for the rolling mosquito net system is resistant to adverse weather conditions.

COLOURS OF FRAMES: white, brown.
SECTIONAL VIEW: ROLLING MOSQUITO NETS FOR WINDOW

1 - Round Reel with Mosquito Net
2 - VELIA Clip
3 - VELIA Cassette
4 - Brush Seal
5 - Spring Reel
6 - End Cap Left
7 - Plastic Ring
8 - End Cap Right
9 - Spring
10 - Guide Channel
11 - Net
12 - Bottom Bar Side Lock
13 - Bottom Bar
14 - Guide Channel Lock
15 - Cord with tassel
16 - Bottom Bar Handle

SECTIONAL VIEW: ROLLING MOSQUITO NETS FOR DOOR

1 - End Cap Right
2 - Guide Channel
3 - Bottom Bar Side Lock
4 - Guide Channel Lock
5 - Plastic Ring
6 - Seal
7 - Spring Tube
8 - Net
9 - Spring
10 - Side Bar
11 - Magnetic Slat
12 - Bottom Bar Handle
13 - VELIA Cassette
14 - Magnetic Profile
15 - VELIA Clip
16 - Side Bar Lock
17 - Guide Channel Ring
18 - Round Reel
19 - End Cap Left

SIZES AVAILABLE: ROLLING MOSQUITO NETS FOR WINDOW

<table>
<thead>
<tr>
<th>Min Width</th>
<th>Max Width</th>
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SIZES AVAILABLE: ROLLING MOSQUITO NETS FOR DOOR

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<th>Min Width</th>
<th>Max Width</th>
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<tr>
<td>800 mm</td>
<td>2500 mm</td>
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Door Mosquito Nets provides your house with a very good protection against insects. This type of Mosquito nets is used on French doors.

Mosquito Frame is made of solid extruded profile. The frames are connected by inside corners what makes the frame even more rigid.

The net is mounted on the window frame or a door frame with self closing hinges.

The net is made of high-class fibre glass (in grey) and is resistant to adverse weather conditions.

Door Mosquito Net has a brush seal around the perimeter of the frame which additionally seals the interior.

STANDARD COLOURS OF FRAMES:
white, brown, grey anthracite.

WOOD-LIKE FINISH OF FRAMES:
golden oak, walnut, mahogany.
SECTIONAL VIEW: DOOR MOSQUITO NETS

1 - Self closing Hinge
2 - Inside Corner
3 - Mosquito Net’s seal
4 - Net
5 - Brush Seal for Mosquito Net
6 - Connecting Profile
7 - Connecting Profile’s Lock
8 - Magnet
9 - Door Handle
10 - Door Frame
11 - Door Panel

SIZES AVAILABLE: DOOR MOSQUITO NETS

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<th>Width</th>
<th>Height</th>
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<tr>
<td>Size including connecting profile</td>
<td>1500 mm</td>
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sliding mosquito nets

The system is used for winter gardens, terraces and large glazed niches. Sliding Mosquito Nets protects your home against insects. Its elements are made of solid extruded profile.

The frames are connected by inside corners what makes the frame even more rigid.

A large number of tracks makes the sliding mosquito net compatible with various types of windows and doors.

Sliding Mosquito Net works seamlessly with roller shutters. Sliding Mosquito Net sash is sealed with brush seals.

The system has a brake which slows down the movement of the sash in its final position and a bumper to prevent the sash from hitting the frame.

The net is made of high-class fibre glass (in grey) and is resistant to adverse weather conditions.

COLOUR OF NET: grey.
STANDARD COLOURS OF FRAMES: white, brown, grey anthracite.
WOOD-LIKE FINISH OF FRAMES: golden oak, walnut, mahogany.
1 - Main profile  6 - Net  
2 - Internal corner  7 - Side lock of connecting profile  
3 - Net seal  8 - Leading element of main profile  
4 - Connecting profile  9 - Adjustable roller

SECTIONAL VIEW: SLIDING MOSQUITO NETS - A SASH

1 - Top rail of sliding mosquito net  4 - Edge bumper  
2 - Seal  5 - Sash of sliding mosquito net  
3 - Break of sliding mosquito net  6 - Bottom rail of sliding mosquito net  
7 - Middle bumper

SECTIONAL VIEW: SLIDING MOSQUITO NETS - WITH AN OPEN FRAME

MAXIMUM SIZES AVAILABLE: SLIDING MOSQUITO NETS - A SASH

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<th>Size without connecting profile</th>
<th>Size including connecting profile</th>
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<td>1700 mm</td>
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<td>2000 mm</td>
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Maximum width of Sliding Mosquito Nets is 6 m.
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</tbody>
</table>
### 1. Standard colours:
- 01-silver (RAL 9006)
- 02-white (RAL 9016)
- 03-grey (RAL 7038)
- 04-dark beige (RAL 1019)
- 05-light beige (RAL 1013)
- 08-dark brown (RAL 8019)
- 09-light brown (RAL 8014)
- 15-cream white (RAL 9001)
- 16-ivory (RAL 1015)
- 23-anthracite grey (RAL 7016)
- 31-light grey (RAL 7047)

### 2. Wood-imitation colours:
- 06-wood-dark
- 07-wood-light
- 24-golden oak (old)
- 26-mahogany
- 27-piedmont
- 28-nut
- 30-golden oak (new)
- 36-wenge
- 52-winchester

### 3. Extra colours:
- 11-yellow (RAL 1033)
- 12-red (RAL 3003)
- 13-green (RAL 6005)
- 14-blue
- 17-fir green (RAL 6009)
- 18-steel blue (RAL 5011)
- 19-bordeau (RAL 3005)
- 20-black (RAL 9005)
- 22-ultra white (RAL 9016)
- 33-basalt grey (RAL 7012)
- 34-quartz grey (RAL 7039)
- 35-concrete grey (RAL 7023)

### Profile’s height, Thickness, Quantity of slats per 1 m height, Weight per 1 m², Max. width of roller shutters, Max. curtain surface, Max. surface of curtain with mosquito net 1.6 / 2.5, Max. width of shutter with mosquito net 1.6 / 2.5, Max. height of shutter with mosquito net 1.6 / 2.5

<table>
<thead>
<tr>
<th>Profile’s height</th>
<th>Thickness</th>
<th>Quantity of slats per 1 m height</th>
<th>Weight per 1 m²</th>
<th>Max. width of roller shutters</th>
<th>Max. curtain surface</th>
<th>Max. surface of curtain with mosquito net 1.6 / 2.5</th>
<th>Max. width of shutter with mosquito net 1.6 / 2.5</th>
<th>Max. height of shutter with mosquito net 1.6 / 2.5</th>
</tr>
</thead>
<tbody>
<tr>
<td>PA 39</td>
<td>39 mm</td>
<td>9,0 mm</td>
<td>25,6 szt.</td>
<td>2,8 kg</td>
<td>2800 mm</td>
<td>6,0 m²</td>
<td>3,2 m² / 5,0 m²</td>
<td>2000 mm / 2000 mm</td>
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<tr>
<td>PA 40</td>
<td>40 mm</td>
<td>8,7 mm</td>
<td>25 szt.</td>
<td>3,3 kg</td>
<td>3200 mm</td>
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<td>PA 45</td>
<td>45 mm</td>
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<td>2,9 kg</td>
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<td>PA 52</td>
<td>52 mm</td>
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<td>19 szt.</td>
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<td>3300 mm</td>
<td>8,0 m²</td>
<td>3,2 m² / 5,0 m²</td>
<td>2000 mm / 2000 mm</td>
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<tr>
<td>PA 55</td>
<td>55 mm</td>
<td>14,0 mm</td>
<td>18 szt.</td>
<td>3,4 kg</td>
<td>4000 mm</td>
<td>9,5 m²</td>
<td>(OPOTERM only)</td>
<td>(OPOTERM only)</td>
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<tr>
<td>PA 77</td>
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<td>13 szt.</td>
<td>4,8 kg</td>
<td>4500 mm</td>
<td>15,0 m²</td>
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European Funds – for the development of innovative economy. We invest in your future.
Project co-financed by the European Regional Development Fund under the Operational Programme Innovative Economy.

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