





# Foreword



Dear Customer,

We are delighted that you have reached for the ABAKUS joinery catalogue. It was specially created to present our products in a completely new light. You are only one step away from making an important decision – purchasing windows, because the ones that you choose will accompany you for many years, providing warmth, peace and security.

Technical perfection, aesthetics and ergonomics – these are the key criteria to keep in mind when choosing joinery. So let us introduce you to our products and assist you in selecting those that perfectly meet your expectations.

We are ready to serve you with our over quarter century of experience in the production of excellent windows.

Sincerely

The Board and employees of Abakus Windows

The history of the ABAKUS company dates back to 1994. Originally a small family business, it has been transformed into a leading Polish manufacturer of PVC and aluminium joinery thanks to continuous development. Such a result can only be achieved through the diligent work of goal-oriented and committed team. The application of the best kinds of raw materials and accessories, the latest trends in technology and quality management are among the main factors contributing to our success. The machine park at the ABAKUS manufacturing plant is one of the most modern in Europe. Unique, cutting-edge engineering allows us to continuously improve the parameters of our products so that they serve their users faultlessly for many years after installation.

Issues related to the aesthetics and design of joinery are a matter of the utmost importance to us. We attentively observe current trends in architecture, making sure that all the goods we provide are fully satisfactory.

Our sales strategy is based on a positive approach. We deeply believe that a good product sells itself. The systematic growth of our share in the European market may serve as proof of the company's constant development and its strong commitment to quality. Customer satisfaction has always been our best motivation for setting and achieving ever more daring goals.



# About the company







The machine park in which we manufacture ABAKUS windows is a real treasure. We have never hesitated to invest in it. That is why today it belongs to the most modern production plants in the joinery industry in Europe!

Fully automated, innovative ABAKUS production lines operate on the basis of an integrated, ecological management system – IRMC Production®. It is the heart of our factory, thanks to which we can optimize operations, rationalize energy consumption and at the same time constantly improve the parameters of windows and doors, so that they serve without failures for many years. The precision of our machines, combined with durability of profiles always guarantees the same highest quality. Each product that leaves our production hall is perfect in every way. Refined to the last millimeter.

## How does it look in practice?

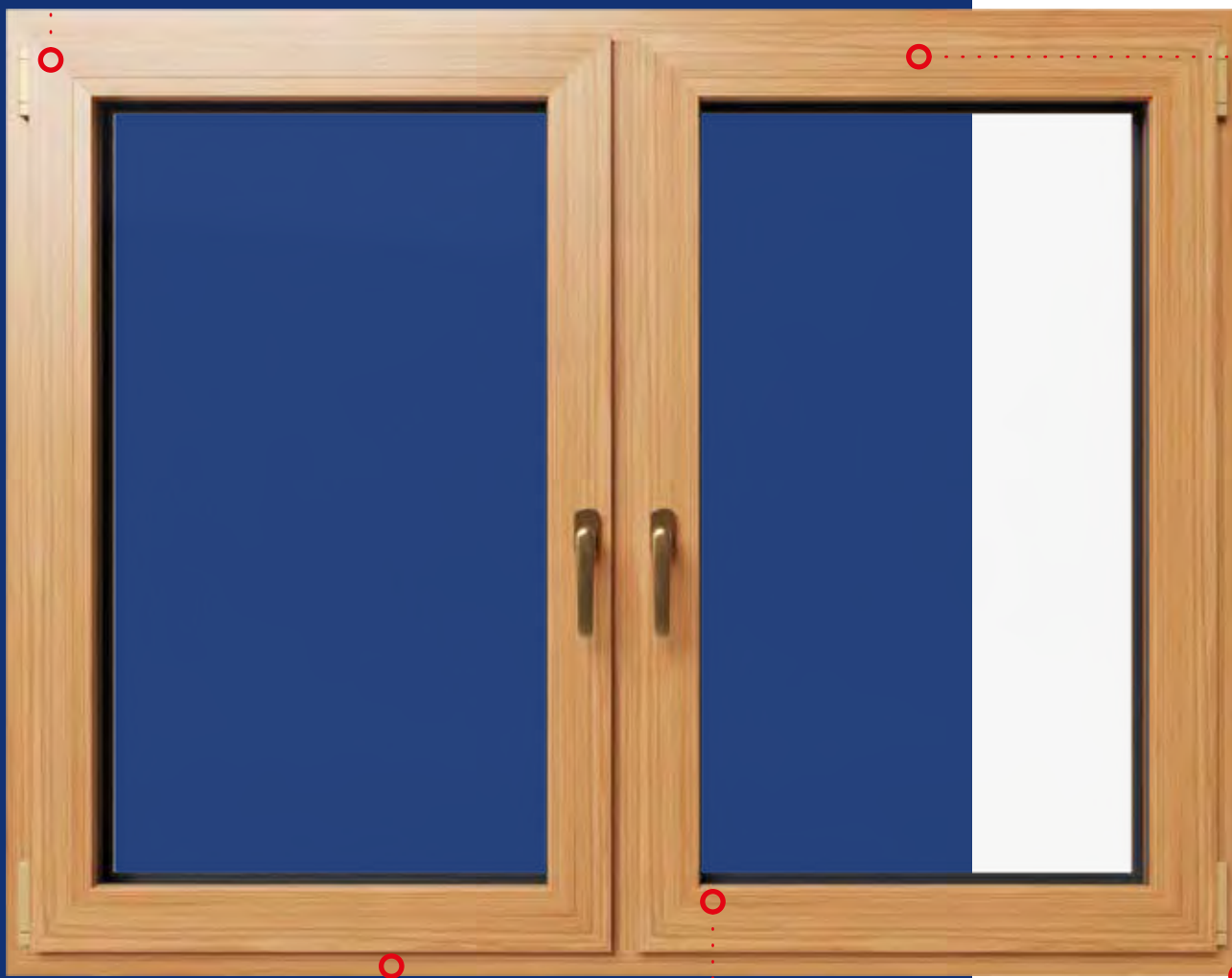
When we receive raw materials at the warehouse, we carefully examine their samples. Each component takes its place in a modern high bay warehouse, so that a fully automated system could easily find it and pass it to our employees in the next production steps.

The digitally programmed process includes: fitting the profiles with the appropriate steel sections, joining them into frames or sashes, strength tests, fitting the hardware, joining the frames with sashes and glazing. All with almost no need for manual handling and repositioning of elements.

The final stage consists of the final inspection, quality approval and proper securing of the product. Thus prepared window we deliver to the indicated address. We ensure optimal logistics, transport of windows on steel stands and their unloading with a lift from the truck.



# Discover our windows



## Technology in the service of security

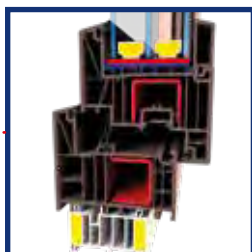
- + Roto NX tilt & turn hardware keeps even 2.6 metre high sashes weighing up to 130 kg! We assemble it as standard in all windows.
- + Handle with Secustik mechanism that makes it impossible to turn it from the outside.\*
- + We offer 2 security strikers to each sash as standard.
- + 3 sliding door systems – HST, PSK and SLIDE equipped with special anti-theft hardware. This is the best and the safest exit to the terrace.



\*as option

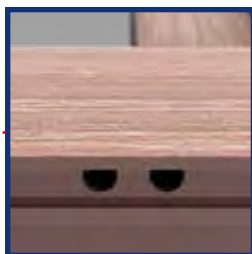
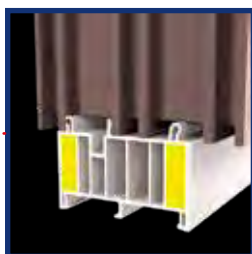
## Technology in the service of warmth

- ✦ Effective thermal insulation of our windows is guaranteed by 6-chamber profiles, airtight insulating glass units, warm edge and additional gaskets.
- ✦ The multi-chamber under-sill bar eliminates frost in this zone and protects the window frame during transport and assembly.
- ✦ Deeply embedded glazing enhances thermal insulation. Innovative technology of glazing bonded with sash improves the rigidity of the window. This is especially important in case of large-sized joinery. \*
- ✦ 2 mm galvanized steel reinforcement ensures window rigidity and high resistance to wind and rain.



## Technology in the service of beauty

- ✦ Our windows are available in many different veneers, including those inspired by wood and metal.
- ✦ Minimalistic line of profiles.
- ✦ Concealed, more aesthetic drainage system. \*
- ✦ IRMC technology enabled to obtain an aesthetic weld and a soft gasket in the corners.
- ✦ The precision of our machines combined with durability of profiles gives the effect of always the same, highest quality.
- ✦ Our patio doors - HST, PSK and SLIDE enable opening the house to the garden and spectacular aesthetic effect. At the same time they offer even higher comfort of use and protection against heat loss.



## Technology in the service of environment

- ✦ We manufacture our joinery with full respect for the environment. We meet all ecological standards, and even more! The use of modern solutions and production optimisation allows us, among others, to reduce energy and water consumption as well as to minimise CO<sub>2</sub> emissions.
- ✦ Windows and doors that effectively prevent heat escaping mean saving on heating, but also lower demand for thermal energy. Energy efficiency is eco-friendly.
- ✦ The recycled plastic has identical parameters as the original material. Recycling allows us to minimise waste and at the same time offer you a full-value, durable and safe joinery. Depending on the system, our window profiles contain from 25 % to even 100 % recycled plastic (bluENERGY GRETA).





blu

blu**ENERGY**





bluENERGY is the product of the exclusive passive windows line from ABAKUS. Excellent components and precise machining ensure that bluENERGY windows meet the strict conditions posed before manufacturers of passive designs. Aesthetic minimalism, ergonomics and perfect thermal insulation are qualities that have determined the success of this product. The purchase of bluENERGY windows is a good decision that will leave you satisfied for years.

Standard equipment:

- + white bluEvolution profile with three black or grey gaskets
- + circumferential fitting with handle and hinge covers in a chosen colour
- + triple glass unit with heat transfer coefficient  $U_g=0.5 \text{ W/m}^2\text{K}$
- + warm edge in one of six colours
- + sealed under-sill bar
- + 6-chamber frame and sash profiles made of the highest quality uPVC
- + 82 mm frame depth
- + micro-ventilation in Tilt & Turn sashes
- + two security strikers in each sash

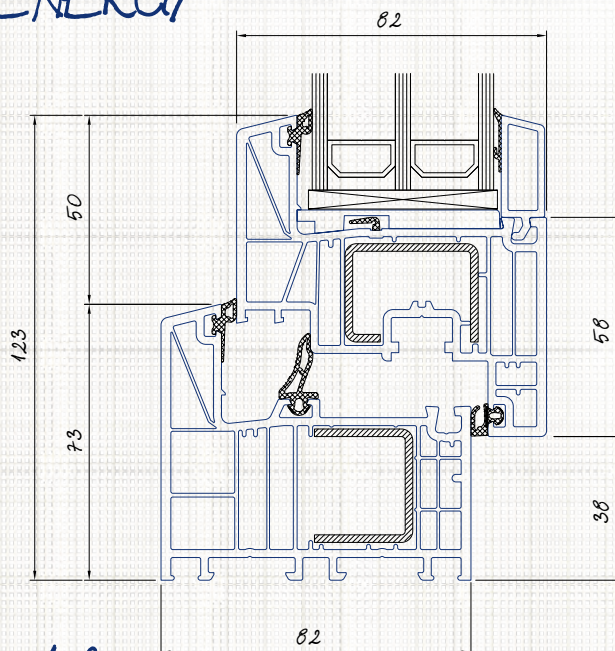
Product characteristics available on pages 28/29

Handle characteristics available on pages 30/31

Veneer catalogue available on pages 32/33

Spacer and muntin colours available on pages 34/35

bluENERGY

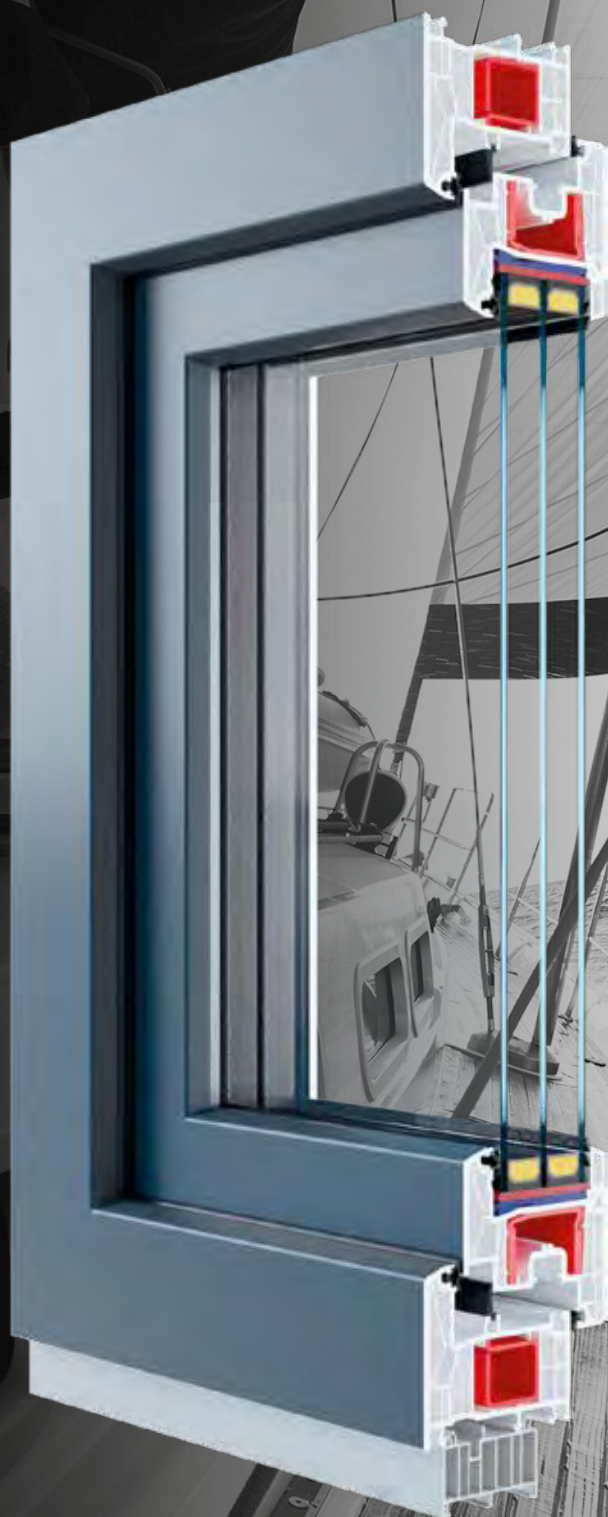


scale 1:2



blu

blu**SYNEGO**





ABAKUS bluSYNEGO is a premium quality product that meets the strict standards of the Passive House Institute. Excellent thermal insulation parameters, resistance to dirt thanks to a unique HDF formula and the possibility of installing the Smart Guard system make bluSYNEGO systems energy efficient, pleasant in maintenance as well as safe for children and the whole family. It is a fulfillment of innovation, reliability and durability for many years.

## Standard equipment:

- + white SYNEGO profile with three black or grey gaskets
- + incredibly smooth external surface, thanks to HDF technology
- + circumferential fitting with handle and hinge covers in a chosen colour
- + triple glass unit with heat transfer coefficient  $U_g=0.5 \text{ W/m}^2\text{K}$
- + warm edge in one of six colours
- + sealed under-sill bar
- + 7-chamber frame and 6-chamber sash profiles made of the highest quality uPVC
- + 80 mm frame depth
- + micro-ventilation in Tilt & Turn sashes
- + two security strikers in each sash

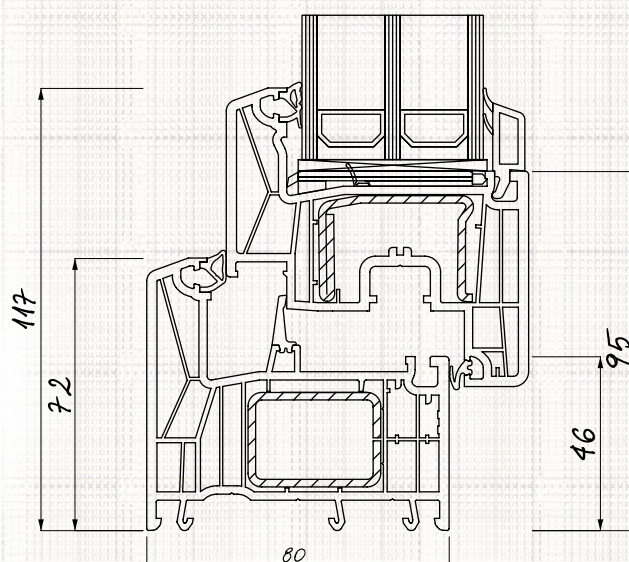
Product characteristics available on pages 28/29

Handle characteristics available on pages 30/31

Veneer catalogue available on pages 32/33

Spacer and muntin colours available on pages 34/35

bluSYNEGO



scale 1:2

blu

# blu**ENERGY PERFECT**



\*triple glass unit



\*double glass unit



# bluENERGY PERFECT

bluENERGY PERFECT PVC window, twin brother of the well-known and esteemed bluENERGY, is our answer to the need for energy-saving joinery and at the same time available at an economical price. Designed in a fashionable minimalist style, it is both functional and very durable. It provides effective thermal insulation thanks to two resistance gaskets. bluENERGY PERFECT windows is a reasonable choice that you will be satisfied with for many years.

## Standard equipment:

- + white bluEvolution profile with two gaskets welded in corners
- + durable Roto NX fittings, capable of lifting a sash weighing up to 130 kg
- + aluminium Abakus handle
- + double glass unit with  $U_g = 1.1 \text{ W/m}^2\text{K}$ ,  
optional triple glass unit with  $U_g = 0.5 \text{ W/m}^2\text{K}$
- + warm steel spacer
- + sealed under-sill bar, or optionally available STX bar
- + 6-chamber frame and sash profiles made of the highest quality uPVC
- + 82 mm frame depth
- + micro-ventilation in Tilt & Turn sashes
- + two security strikers in each sash

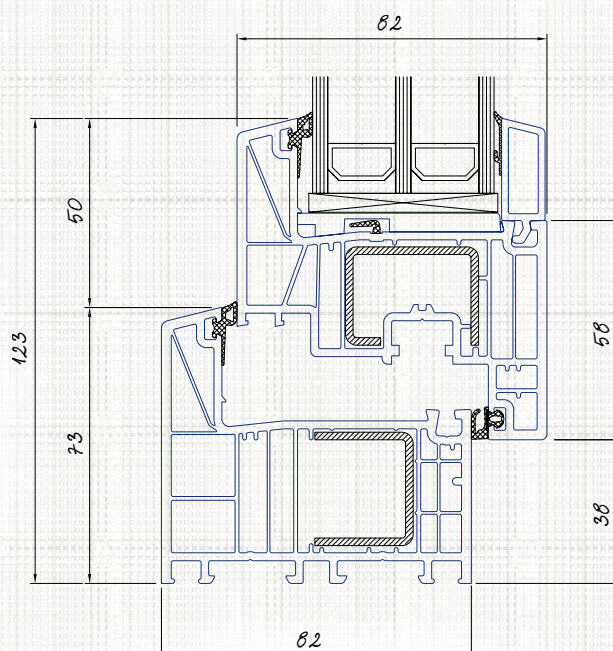
Product characteristics available on pages 28/29

Handle characteristics available on pages 30/31

Veneer catalogue available on pages 32/33

Spacer and muntin colours available on pages 34/35

bluENERGY PERFECT



scale 1:2

blu

# bluSYNEGO PERFECT



\*triple glass unit



\*double glass unit



# bluSYNEGO PERFECT

bluSYNEGO PERFECT PVC windows are a successful combination of energy efficiency, modern design and attractive price. Their name is no accidental. It is a perfect joinery. The younger brother of the valued bluSYNEGO windows, thanks to Roto NX hardware and anti-burglary strikers, ensures security and comfort of use, as well as high wind and rain resistance. The optional use of closed steel in the frame allows even better parameters of structural rigidity to be achieved.

Standard equipment:

- + white SYNEGO profile with two rebate gaskets welded in corners
- + durable Roto NX fittings, capable of lifting a sash weighing up to 130 kg
- + aluminium Abakus handle
- + double glass unit with  $U_g = 1.1 \text{ W/m}^2\text{K}$   
optional triple glass unit with  $U_g = 0.5 \text{ W/m}^2\text{K}$
- + warm steel spacer
- + sealed under-sill bar, or optionally available STX bar
- + 6-chamber frame and sash profiles made of the highest quality PVC profiles
- + 80 mm frame depth
- + micro-ventilation in Tilt & Turn sashes
- + two security strikers in each sash
- + available in a wide range of colours as well as metal and wood-effect veneers

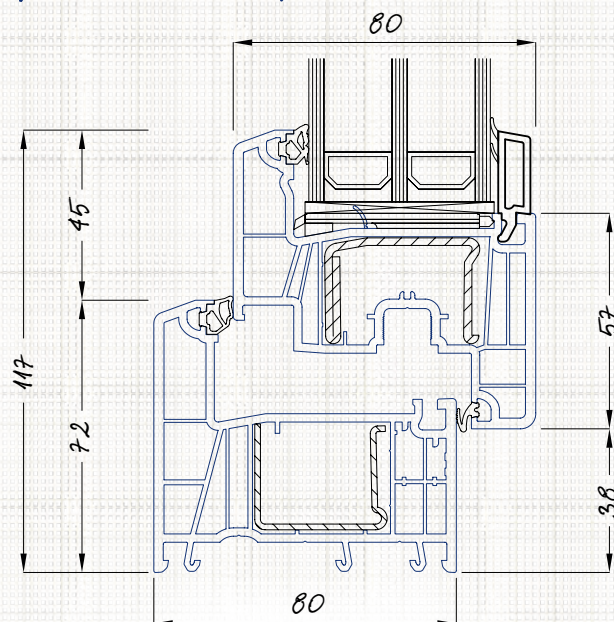
Product characteristics available on pages 28/29

Handle characteristics available on pages 30/31

Veneer catalogue available on pages 32/33

Spacer and muntin colours available on pages 34/35

bluSYNEGO PERFECT



scale 1:2



blu**DECORO**

bluDECORO is our response to the growing interest in all-in-one joinery. It is made of the best profiles, fitted with a special exterior trim bordering the splay. The frame, connected to the elevation finishing trim, creates an aesthetic whole that is available in a wide range of colours. The uniqueness of this product lies in the fact that it can be assembled after the completion of work on the facade. From now on, the splay will no longer be blemished with damp patches and moss.

## Standard equipment:

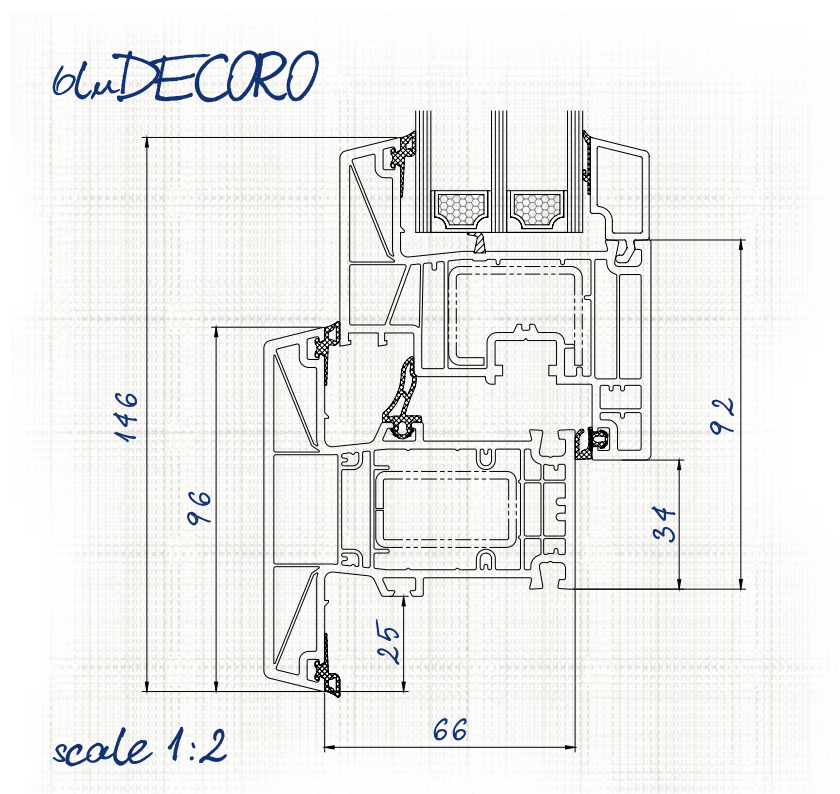
- + white uPVC profile with three black or grey gaskets
- + circumferential fitting with handle and hinge covers in a chosen colour
- + triple glass unit with heat transfer coefficient  $U_g=0.5 \text{ W/m}^2\text{K}$
- + warm edge in one of six colours
- + sealed under-sill bar
- + 82 mm frame depth
- + two security strikers in each sash

Product characteristics available on pages 28/29

Handle characteristics available on pages 30/31

Veneer catalogue available on pages 32/33

Spacer and muntin colours available on pages 34/35





blu



blu**INTERO**

bluINTERO - a brand new window manufactured by ABAKUS that does not require processing of internal embrasure. Its unconventional appearance has been achieved thanks to a trim adhering to the wall and extending beyond the outline of the frame. Sashes of a window made in such technology swing up to a 180 degree angle, which opens up new possibilities in both operation and design. bluINTERO will also work well where we have to deal with narrow wall or a sandwich panel and in cases where it is impossible to make an internal embrasure. Remarkable solutions like this are our hallmark.

## Standard equipment:

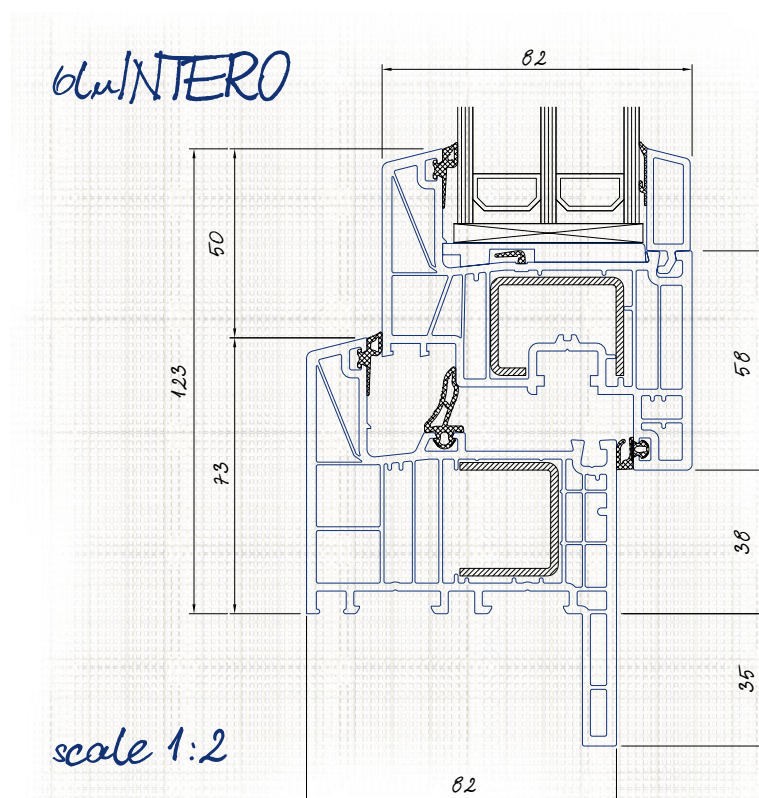
- + white uPVC profile with three black or grey gaskets
- + circumferential fitting with handle and hinge covers in a chosen colour
- + triple glass unit with heat transfer coefficient  $U_g=0.5 \text{ W/m}^2\text{K}$
- + warm edge in one of six colours
- + sealed under-sill bar
- + 6-chamber frame and sash profile made of the highest quality uPVC
- + micro-ventilation in Tilt & Turn sashes
- + two security strikers in each sash

Product characteristics available on pages 28/29

Handle characteristics available on pages 30/31

Veneer catalogue available on pages 32/33

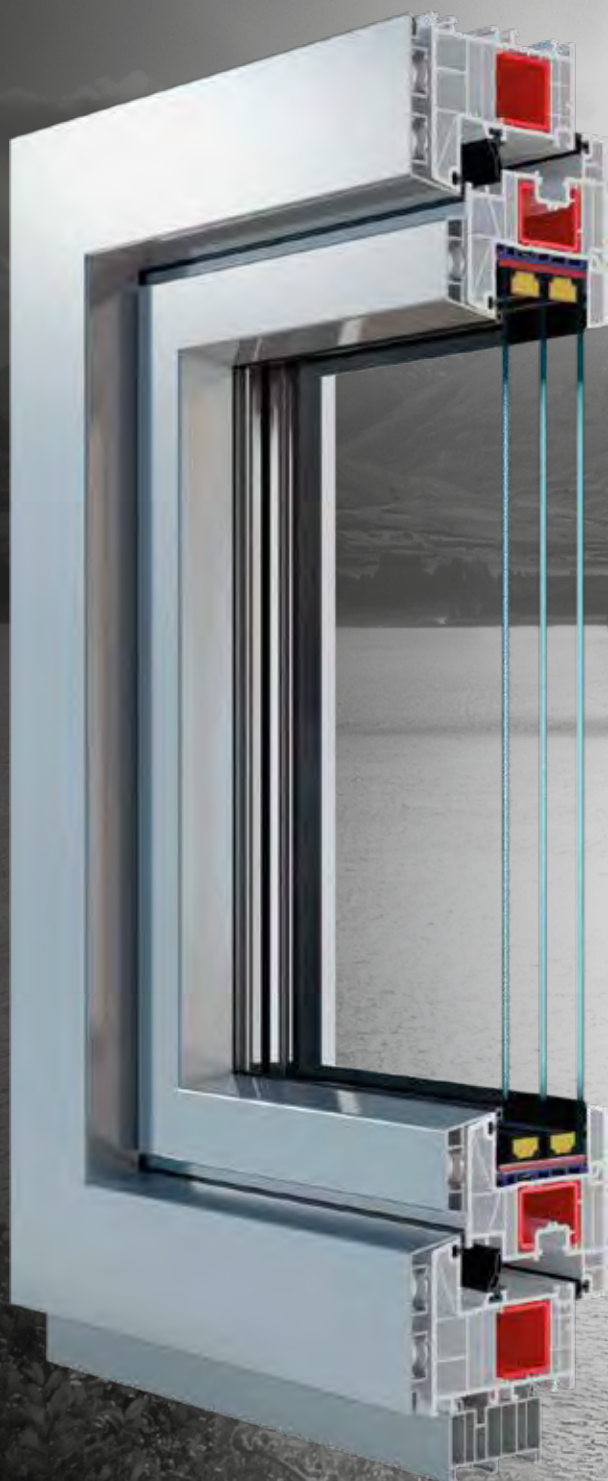
Spacer and muntin colours available on pages 34/35





blu

blu**ALU**





Anyone who wants to maximise the life of their PVC windows should consider installing our aluminium clads. Systems consisting of strips, welded or crimped in corners, are an effective way to protect joinery against the harmful influence of weather phenomena. Simple installation with the use of systemic hooks guarantees the independence both PVC and aluminium structures. We offer aluminium clads in a wide range of RAL colours – so that everyone can find something suitable.

## Standard equipment:

- + white uPVC profile with three black or grey gaskets
- + circumferential fitting with handle and hinge covers in the chosen colour
- + triple glass unit with heat transfer coefficient  $U_g=0.5 \text{ W/m}^2\text{K}$
- + warm edge in one of six colours
- + sealed under-sill bar
- + 6-chamber frame and sash profiles made from uPVC of the highest quality
- + 94 mm frame depth
- + micro-ventilation in Tilt & Turn sashes
- + aluminium cladding with hooks, powder-coated in one of twenty three colours
- + two security strikers in each sash

Product characteristics available on pages 28/29

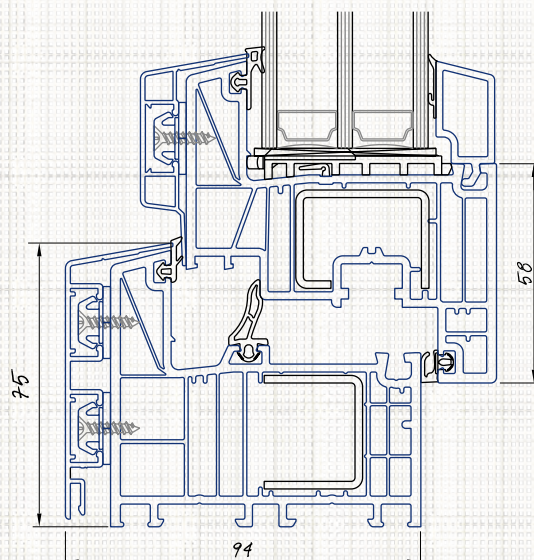
Handle characteristics available on pages 30/31

Veneer catalogue available on pages 32/33

Spacer and muntin colours available on pages 34/35

Colours of aluminium clads available on page 44

bluALU



scale 1:2



HS

HS





Our proposal for impressive terrace doors is the lift and slide HS system made of PVC. We would like to draw your attention to the ease of sliding the huge door leaves of the HS system, thanks to the application of top quality HS Abakus-portal fittings. A sliding system consisting of carriages moving in aluminium guides is a guarantee of smooth and quiet movement of the system segments. A low, energy-efficient threshold will also make it easier for the disabled to function, and the panoramic sashes ensure perfect lighting for the interiors as well as facilitate their arrangement due to the space-saving design of the construction. A building equipped with the HS system will be protected against burglary thanks to as many as 4 locking points as standard. So you can sleep well and wake up in a house full of sunshine!

Standard equipment:

- + white uPVC profile with two black or grey gaskets
- + HS-portal fittings with systemic handle in the chosen colour
- + triple glass unit with heat transfer coefficient  $U_g=0.5W/m^2K$
- + warm edge in one of six colours
- + low energy-saving aluminium threshold with increased insulation
- + frame depth 190 mm (Rehau), 194 mm (Salamander)

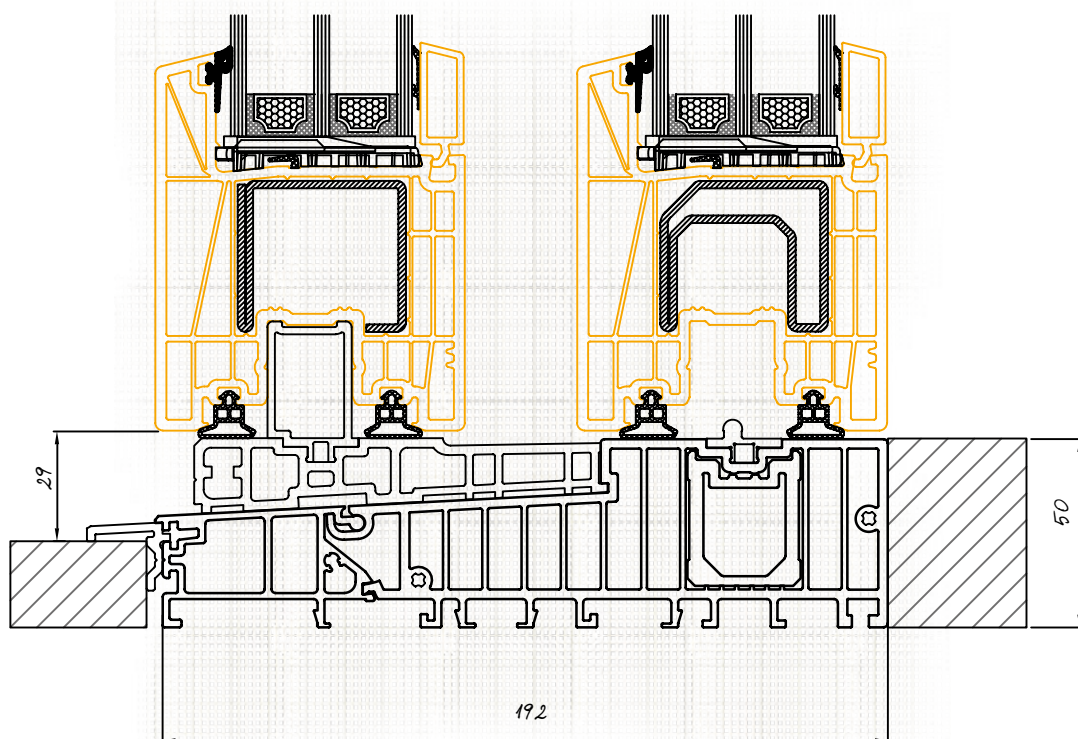
Product characteristics available on pages 28/29

Handle characteristics available on pages 30/31

Veneer catalogue available on pages 32/33

Spacer and muntin colours available on pages 34/35

*HS Salamander*



*scale 1:2*





PSK

PSK



We present energy-efficient sliding doors with one of the finest ventilation systems. Tilt and slide patio doors PSK, equipped with Roto Patio Alversa system, are available in variants - the KS economical variant equipped with tilt function and in the PS Air COM parallel sliding system, which has a unique ventilation system automatically assisted in the tilt position. Due to the sliding system of the leaves, PSK doors are ergonomic and extremely comfortable to use. Created by them impressive glazing reaching up to 3 metres in width, optically enlarge the interior and add class to it. By choosing PSK doors you gain guarantee of perfect ventilation, illuminated interior and high comfort of use.

#### Standard equipment:

- + white PSK profile with gaskets in black or grey
- + triple glass unit with heat transfer coefficient  $U_g=0.5 \text{ W/m}^2\text{K}$
- + warm edge in one of six colours
- + micro-ventilation
- + frame depth 82 mm (Salamander), 80 mm (Rehau)

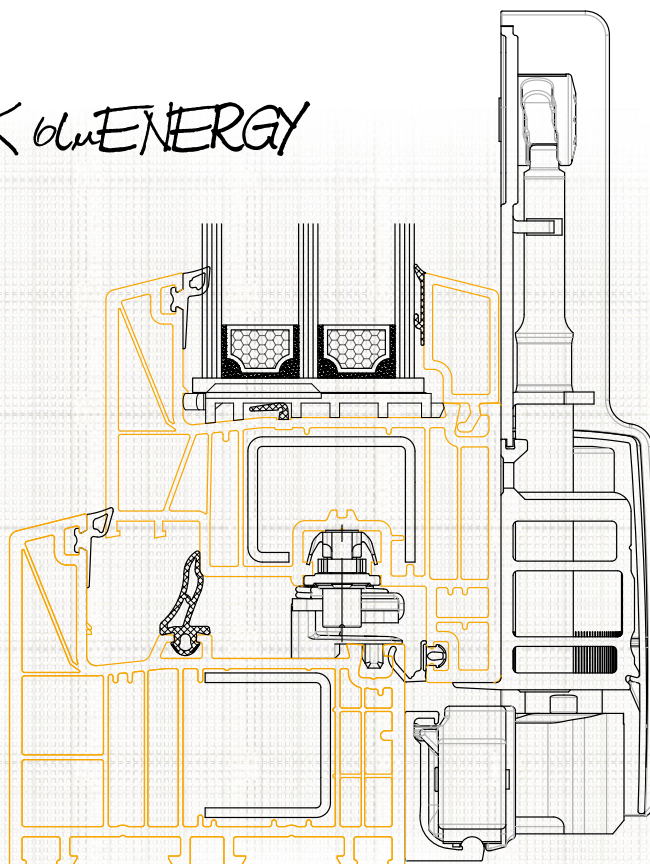
Product characteristics available on pages 28/29

Handle characteristics available on pages 30/31

Veneer catalogue available on pages 32/33

Spacer and muntin colours available on pages 34/35

PSK *blue* ENERGY



scale 1:2



SLIDE

SLIDE



# SLIDE

Here are some of the smartest sliding doors for modern home. Patio door SLIDE is a product in which innovation and modernity are manifested in every parameter and design. Unusual lightness of sliding and new comfort of opening make the door perfect for children and the whole family. On request, we equip them with the SoftClose function, which gently slows the sash during closing and brings it to the end position. Moreover, the SLIDE has excellent thermal insulation properties and enhanced burglary protection. The innovative mechanism also ensures perfect fit of the perimeter gasket for high tightness even during heavy rainfall. With SLIDE door you can enjoy unparalleled warmth, blissful silence and the highest security in your own home.

Standard equipment:

- + white Slide profile with two black gaskets
- + triple glass unit with heat transfer coefficient  $U_g=0.5 \text{ W/m}^2\text{K}$
- + warm edge in one of six colours
- + low energy-saving threshold with increased insulation
- + frame depth 152 mm (Salamander), 156 mm (Rehau)

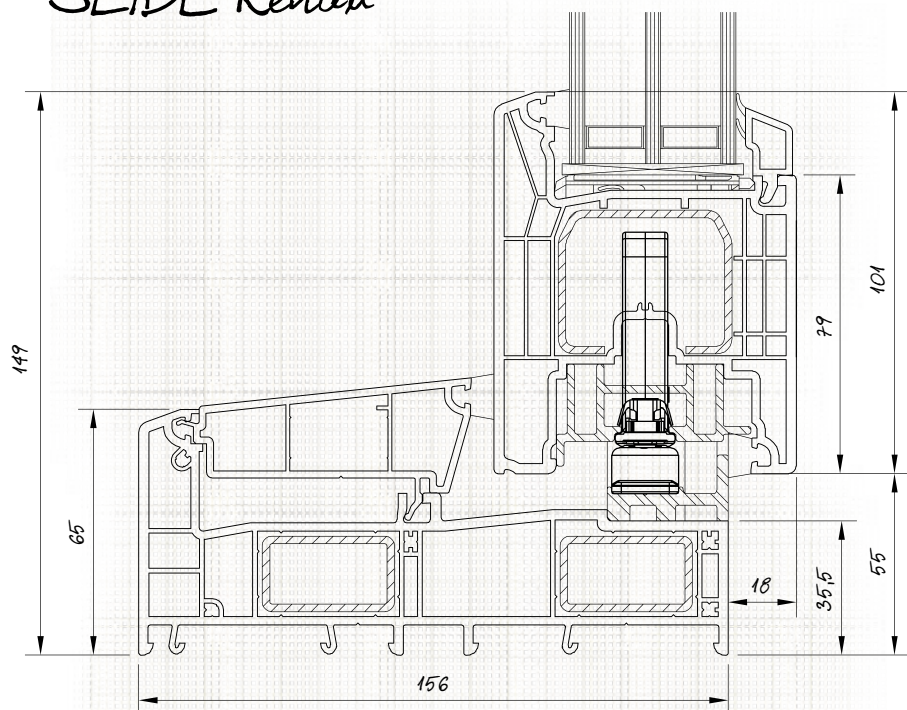
Product characteristics available on pages 28/29

Handle characteristics available on pages 30/31

Veneer catalogue available on pages 32/33

Spacer and muntin colours available on pages 34/35

*SLIDE Rehau*



*scale 1:2*

# ABAKUS windows and doors characteristics

	blu line			
	bluENERGY	bluSYNEGO	bluENERGY PERFECT	bluSYNEGO PERFECT
Frame depth	82 mm	80 mm	82 mm	80 mm
6-chamber profiles SALAMANDER bluEvolution 82	✓	✗	✓	✗
6-chamber profiles REHAU SYNEGO 80	✗	✓	✗	✓
EQUIPMENT				
Roto NX fittings	✓	✓	✓	✓
Roto Designo - concealed hinges	○	○	○	○
TiltFirst fittings - child safety system	○	○	○	○
Two security strikers	✓	✓	✓	✓
RC1N burglar inhibiting fittings	○	○	○	○
RC2N burglar inhibiting fittings	○	○	○	○
Lifting mishandling device	○	○	○	○
Roto Line Secustik handle	✓	✓	○	○
Roto Swing Secustic handle	○	○	○	○
Aluminium handle - white or brown	○	○	✓	✓
Glass bonded with sash	○	○	○	○
Balcony bullet catch	○	○	○	○
Handle brake - stay	○	○	○	○
Micro-ventilation in Tilt & Turn sashes	✓	✓	✓	✓
Double glazing 4/16/4 Ug = 1.1 W / m²k	○	○	✓	✓
Triple glazing 4/18/4/18/4 Ug = 0.5 W / m²k	✓	✓	○	○
Spacer bar made of compound insulation material (warm edge)	✓	✓	○	○
Spacer bar made of steel (warm edge)	○	○	✓	✓
Sealed under-sill bar	✓	✓	✓	✓
SOLAR CONTROL GLASS				
Antisol Brown - tinted glass	○	○	○	○
Antisol Green - tinted glass	○	○	○	○
Antisol Grey - tinted glass	○	○	○	○
Stopsol Brown - reflective glass	○	○	○	○
Stopsol Green - reflective glass	○	○	○	○
Stopsol Grey - reflective glass	○	○	○	○
LAMINATED GLASS				
O2 - Safety glass	○	○	○	○
P2 - Burglar-proof glass	○	○	○	○
P4 - Burglar-proof glass	○	○	○	○
SOUND-PROOF GLASS				
39 dB	○	○	○	○
40 dB	○	○	○	○
45 dB	○	○	○	○

✓ - available    ✗ - unavailable    ○ - optional





blu line			HS Rehau/ Salamander	PSK				SLIDE Rehau/ Salamander
bluDECORO	bluINTERO	bluALU		bluENERGY	bluSYNEGO	bluENERGY PERFECT	bluSYNEGO PERFECT	
82 mm	82 mm	94 mm	190/194 mm	82 mm	80 mm	82 mm	80 mm	152/156 mm
✓	✓	✓	✗	✓	✗	✓	✗	✗
✗	✗	✗	✗	✗	✓	✗	✓	✗

EQUIPMENT

✓	✓	✓	✗	✗	✗	✗	✗	✗
○	○	○	✗	✗	✗	✗	✗	✗
○	○	○	✗	✗	✗	✗	✗	✗
✓	✓	✓	✗	✓	✓	✓	✓	✓
○	○	○	✗	○	○	○	○	✗
○	○	○	✗	○	○	○	○	✗
○	○	○	✗	✗	✗	✗	✗	✗
✓	✓	✓	✗	✗	✗	✗	✗	✗
○	○	○	✗	✗	✗	✗	✗	✗
○	○	○	✗	✗	✗	✗	✗	✗
○	○	○	○	○	○	○	○	○
○	○	○	✗	✗	✗	✗	✗	✗
○	○	○	✗	✗	✗	✗	✗	✗
○	○	○	○	○	○	○	○	○
○	○	○	✗	✗	✗	✗	✗	✗
○	○	○	✓	○	○	✓	✓	○
✓	✓	✓	○	✓	✓	○	○	✓
✓	✓	✓	✓	✓	✓	○	○	✓
○	○	○	○	○	○	✓	✓	○
✓	✓	✓	✗	✓	✓	✓	✓	✗

SOLAR CONTROL GLASS

○	○	○	○	○	○	○	○	○
○	○	○	○	○	○	○	○	○
○	○	○	○	○	○	○	○	○
○	○	○	○	○	○	○	○	○
○	○	○	○	○	○	○	○	○
○	○	○	○	○	○	○	○	○

LAMINATED GLASS

○	○	○	○	○	○	○	○	○
○	○	○	○	○	○	○	○	○
○	○	○	○	○	○	○	○	○

SOUND-PROOF GLASS

○	○	○	○	○	○	○	○	○
○	○	○	○	○	○	○	○	○
○	○	○	○	○	○	○	○	○

# Handles characteristics

Available colours	old gold		black*	
		titanium		grey brown
		light silver		old gold
		brown		titanium matt
		white		silver
				medium brown
				white
				anthracite*
				
Handle model				
	standard	Roto Line Secustik	Roto Line button	Roto Line key
bluENERGY	o	✓	o	o
bluSYNEGO	o	✓	o	o
bluENERGY PERFECT	✓	o	o	o
bluSYNEGO PERFECT	✓	o	o	o
bluDECORO	o	✓	o	o
bluINTERO	o	✓	o	o
bluALU	o	✓	o	o
HS	x	x	x	x
PSK	x	x	x	x
SLIDE	x	x	x	x

✓ - available    x - unavailable    o - optional

\*available for handles Roto Line Secustik and Roto Line key





anthracite\*

black

silver

brown

white

				
Swing Secustik	Swing button	Swing key	HS standard	PSK/SLIDE
o	o	o	x	x
o	o	o	x	x
o	o	o	x	x
o	o	o	x	x
o	o	o	x	x
o	o	o	x	x
o	o	o	x	x
x	x	x	✓	x
x	x	x	x	✓
x	x	x	x	✓

\*only HS

# Window veneers

## SALAMANDER - STANDARD



Anthracite Grey (55)



Mooreiche (25)



Golden oak (51)



Walnut (21)



Nebraska (33)



Mahagoni (26)



Anthracite Satin (88)

## SALAMANDER - SEMI-STANDARD



Jet black matt (18)



Woodec Oak (91)



Silver Grey (42)



Schwarzbraun (71)

## SALAMANDER - OPTIONAL



MattAmber CoolWood (08)



Woodec Alpine (92)



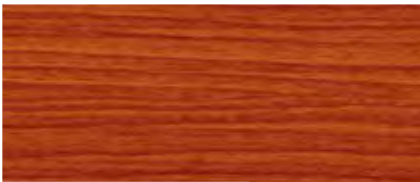
MattWalnut CoolWood (30)



Dark green (03)



Polareiche (43)



Stripe douglas (27)



Metbrush alu (69)



REHAU - STANDARD



Anthracite Grey (4443)



Mooreiche 2 (4914)



Golden oak (7512)



Walnut (225L)



Winchester XA (1208L)



Mahagoni (9632)



Anthracite Grey Smooth (930L)



Midnight Black Matt (1980L)



Turner Oak malt (2031L)

REHAU - SEMI-STANDARD



Grey (9922)

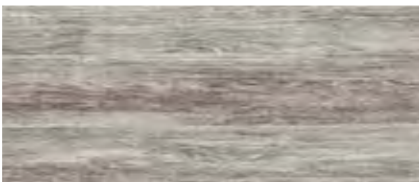


Palisander (9631)



Schokobraun (012L)

REHAU - OPTIONAL



Sheffield Oak concrete (2039L)



Sheffield Oak alpine (2039L)



Metbrush anthracite grey (1392L)



Moos green (4925)



Sheffield oak light (1562L)



Stripe douglas (4404)



Metbrush aluminium (1049L)



Grey smooth (1059L)



Anthracite matt (2005L)

The colours of goods presented in photographs may deviate from the actual appearance of products. Differences between delivered products and their photographs in the catalogue may not serve as grounds for any claim of the customer that the goods do not conform to the order.

AVAILABLE WINDOW SHAPES

	RECTANGULAR	NON-RECTANGULAR	ARCHED
bluENERGY	✓	✓	✓
bluSYNEGO	✓	✓	✗
bluENERGY PERFECT	✓	✓	✓
bluSYNEGO PERFECT	✓	✓	✗
bluDECORO	✓	✗	✗
bluINTERO	✓	✗	✗
bluALU	✓	✓	✗
HS	✓	✗	✗
PSK	✓	✗	✗
SLIDE	✓	✗	✗

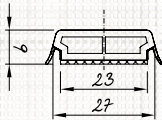
✓ - available  
✗ - unavailable

DISTANCE SPACER COLOURS

bluENERGY PERFECT	Steel	
bluSYNEGO PERFECT		
bluENERGY	White	Light brown
bluSYNEGO		
bluDECORO		
bluINTERO		
bluALU	Light grey	Brown
HS		
PSK	Grey	Black
SLIDE		

GLUED-ON MUNTINS

- + muntins dedicated for joinery in historic and stylized buildings
- + made of PVC, with gaskets on the edges and a system of gluing to the glazing
- + may be laminated with the same veneer as the other window elements
- + the glazing cavity covered by a muntin (in case of the 27 mm width) is filled with a duplex spacer – in this way, the same visual effect is achieved as for structural muntins

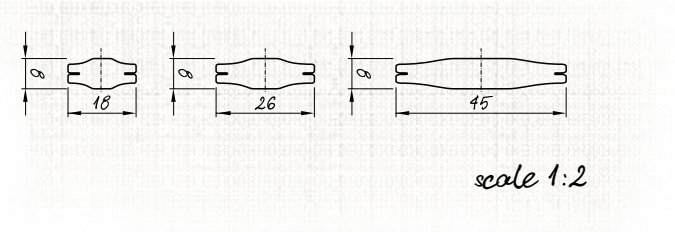


scale 1:2



IN-PANE MILLED MUNTINS

- + placed between glass panes
- + made of aluminium alloy, powder coated in any RAL colour and in any texture
- + available in widths: 18 mm, 26 mm, 45 mm



White antique



RAL 9010



Mahogany



Dark oak



Medium oak



Cherry



Golden oak



Ochre



Light Oak



Douglasie



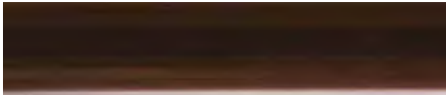
Oregon



RAL 8001



RAL 8022



RAL 8014



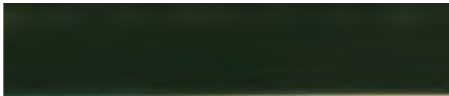
RAL 8017



RAL 8012



Gold



RAL 6009

IN-PANE CLAMPED MUNTINS

- + placed between glazing panes
- + made of aluminium alloy, powder coated in white, gold, old gold and silver
- + connected at intersections by using cross-pieces and joint pieces



White



Silver



Gold



Old gold





Three mosquito screens are displayed in the foreground, each designed for a different window type. The screen on the left is for a vertical window, featuring a dark frame and a fine mesh. The middle screen is for a horizontal window, also with a dark frame and fine mesh. The screen on the right is for a roof window, with a dark frame and a fine mesh. In the background, a modern house with horizontal siding and a window is visible, along with some landscaping.

# **window** mosquito screens

- modern solutions for vertical and roof windows
- effective protection against insects
- comfortable to use, highly durable



# window mosquito screens

Effective protection against insects and everyday comfort - these are the most important advantages of Abakus window mosquito screens. Our product range includes solutions for vertical windows (PVC and aluminium), including flush and roof ones. For the first type of windows we recommend flange mosquito screens. They are fixed permanently and removed for the winter period. Their maximum dimensions are: 150 cm wide and 250 cm high. For roof windows we offer roller mosquito screens and vertical pleated mosquito screens.

The first ones can be rolled up like interior roller blinds. The second ones can be folded into pleats forming a horizontal accordion.

Both solutions are convenient in everyday use. They enable windows to be opened and closed without any problems, thus free air circulation. They are available in a wide range of colours, so you can easily match them to the colour of the windows. Net is available in grey or black.

Standard equipment:

Window mosquito screens:

- + strong extruded aluminium profile
- + 45° angle joint

Roller mosquito screens:

- + brake to prevent the beam knocking against the cassette
- + "AluClick" system allowing to change the height at which the mosquito screen closes





A photograph of a modern house with a wooden slat roof and light-colored walls. Several large windows are shown with dark frames and white mosquito screens. Some screens are partially open, revealing the interior. The house is surrounded by greenery, including trees and bushes. A large green letter 'T' is in the top left corner.

# door mosquito screens

- effective protection against insects
- unimpeded access to the terrace and garden
- comfortable operation, light and smooth movement



# door mosquito screens

Sliding and pleated mosquito screens are the ideal complement to sliding terrace doors (HST, SLIDE), providing effective protection against insects. They take up very little space and are easy to open and close. The movement is quiet and smooth, and the low threshold is not a barrier. In the case of sliding mosquito screens, the nets are mounted on sturdy aluminium frames that slide on runners.

Their maximum dimensions are: 170 cm wide and 250 cm high. The maximum length of the guides is 600 cm. In pleated mosquito screens, the net folds into an accordion when closed and is hidden in the side profile without obstructing the view – even in corner doors.

The net can be stopped in any position. Pleated mosquito screens can be used collision-free with external roller shutters. Their max. dimensions are: 600 cm wide and 320 cm high. For turning balcony doors, we recommend hinged frame mosquito screens with a self-closing device. Their maximum dimensions are: 120 cm wide and 250 cm high.

Standard equipment:

Pleated mosquito screens:

- + railing in profile, no plastic handles
- + low threshold 6 mm
- + simple installation and tension adjustment


Door mosquito screens:

- + hidden magnets in corners
- + hinges with adjustable self-closing device





# external roller shutters

- 
- effective protection against excessive sunlight
  - more privacy and security when you want it
  - convenient operation, quiet and smooth movement



# external roller shutters

External roller shutters are a convenient and aesthetic solution, providing effective protection against excessive solar radiation and overheating of interiors. In this way, they reduce air-conditioning costs in summer, and heating costs in winter. In addition, roller shutters allow for greater privacy in your home and provide an additional deterrent to potential burglars. Made of high-quality sheet metal, Abakus external roller shutters are characterised by increased resistance to abrasion and weather conditions. We offer them in a wide range of colours, thanks to which they can be easily matched to the windows and elevation. There is a choice of three variants: flush mounted, adaptive and top-mounted shutters. A wide range of actuators, from budget to PREMIUM brands: wired, radio-controlled, with obstacle detection and electronic limiters ensure safety and comfort. It is also possible to purchase Smart Home systems: Yooda Smart Home, Selve Commeo Home Server, Somfy Tahoma.







# zip screens

- sun protection
- energy saving – lower air conditioning expenses
- privacy and protection from insects
- greater comfort, e.g. when working and relaxing at a screen



# zip screens

Zip screen is a modern variant of external roller shutter providing shading of rooms on the one hand, and on the other, protection from the sun and excessive heat. Durable fabric, available in several colours, absorbs heat and leaves it outside the building. It is a functional and practical solution, which is suitable for buildings with large and very large glazings.

Abakus zips additionally provide protection against insects. The use of zipper-like mechanism on the edges of the fabric guarantees maximum sealing, as well as stability and resistance to wind and rain. The runners are available in a click version with invisible mounting holes. There is a choice of 3 variants: flush-mounted, top-mounted and adaptive. The maximum width or height is 5 m (max. 16 m<sup>2</sup>). Each roller shutter is tested and checked by qualified personnel.












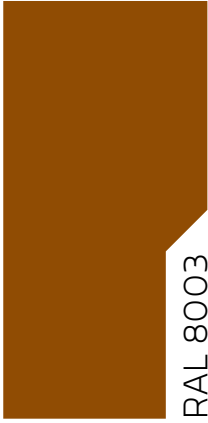
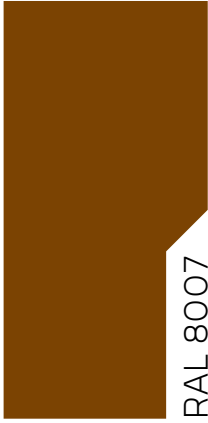


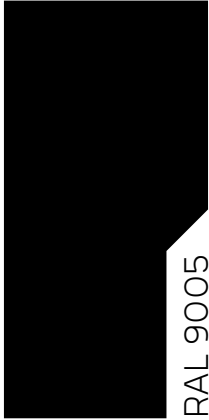
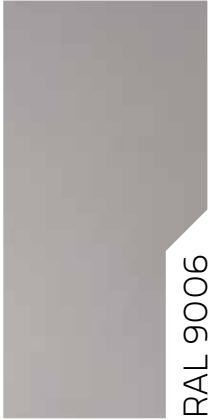

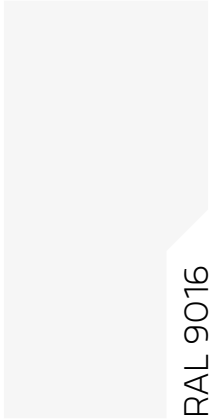
Standard equipment:

- + Copaco plastic-covered fibreglass fabric
- + no visible weld at the load bar
- + adjustable fabric tensioners along the entire height of the guides
- + actuators with overload and obstacle detection of PREMIUM brands: Selve and Somfy



# Colours



COLOURS OF ALU CLADS bluALU					
					
RAL 1013	RAL 1033	RAL 3002	RAL 3003	RAL 5010	RAL 5013
					
RAL 5015	RAL 6005	RAL 6029	RAL 7001	RAL 7016	RAL 7035
					
RAL 7042	RAL 8001	RAL 8003	RAL 8007	RAL 8011	RAL 8017
					
RAL 8019	RAL 9005	RAL 9006	RAL 9007	RAL 9016	







**ABAKUS OKNA SP. Z O.O.**  
**Aleje Jerozolimskie 100**  
**00-807 Warsaw**  
**POLAND**  
**VAT EU: PL 5252465853**

Manufacturing plant  
Mickiewicza 76  
16-070 Choroszcz  
POLAND

tel. +48 85 713 09 70

[www.abakus-windows.eu](http://www.abakus-windows.eu)

[abakus@abakus-windows.eu](mailto:abakus@abakus-windows.eu)