



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 just one step away from making a great decision in your purchase of 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 meet your expectations perfectly.

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 PORZECKI S.K.A

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 an outcome could only have been achieved through the diligent work of a goal-oriented and committed team. The application of the best kinds of raw materials and accessories, the latest trends in technology and quality management is among the main factors contributing to our success. The machine park used 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







TECHNOLOGY INSPIRED BY WARMTH

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!

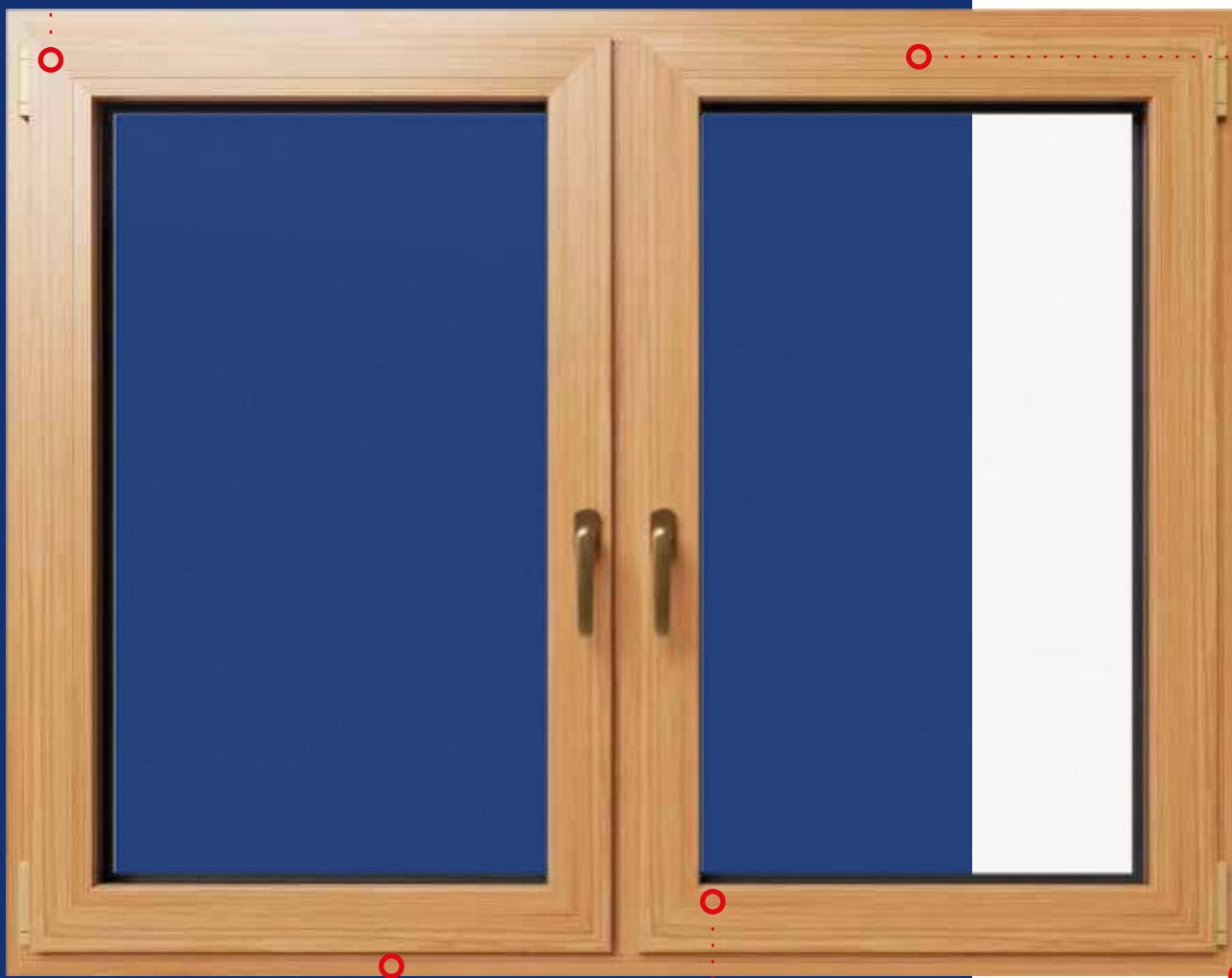
Fully automated, innovative ABAKUS production lines operate on the basis of an integrated, ecological management system - IRMC Production®. It is the heart of our factory, thanks to which we can optimize operations, rationalize energy consumption and at the same time constantly improve the parameters 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 the following: 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.



Technology in the service of security

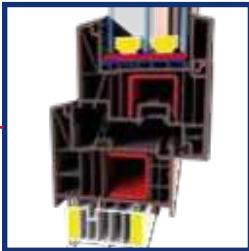
- ◆ Roto NX tilt & turn hardware keeps even 2.6 metre high sashes weighing up to 130 kg! We assemble them as standard in all windows.
- ◆ Handle with Secustik mechanism that makes it impossible to turn it from the outside.*
- ◆ We offer 2 anti-burglary security strikers to each sash as standard.
- ◆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



Discover our windows

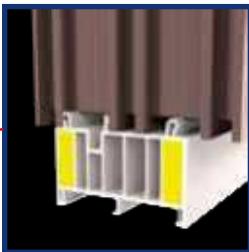


TECHNOLOGY INSPIRED BY WARMTH



Technology in the service of warmth

- + Effective thermal insulation of our windows is guaranteed by 5 or 6-chamber profiles, tight glazing packages, 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 Synego 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.



red

redTECH

redARTE



redTECH

redARTE

ABAKUS redTECH and ABAKUS redARTE are two versions of a product based on a 73mm profile. The RedTECH window is characterized by a simple form with a distinctive contour. Sharp edges along with perpendicular planes create an ideal design for modern constructions, earning the appreciation of architects.

When we talk about the sister product – redARTE – we mean smoothly finished joinery perfectly matching the traditional façade. Both windows have identical technical parameters and availability of accessories.

Standard version:

- + white uPVC profile with two black 2-chamber gaskets
- + circumferential fitting with handle and hinge covers in white or brown
- + double glazing with heat transfer coefficient $U_g=1.1 \text{ W/m}^2\text{K}$
- + triple glazing with heat transfer coefficient $U_g=0.6 \text{ W/m}^2\text{K}$ as an option
- + sealed under-sill bar
- + 5-chamber frame and sash profile made of the highest quality uPVC
- + 73 mm frame depth
- + micro-ventilation in Tilt & Turn sashes
- + two security strikers in each sash

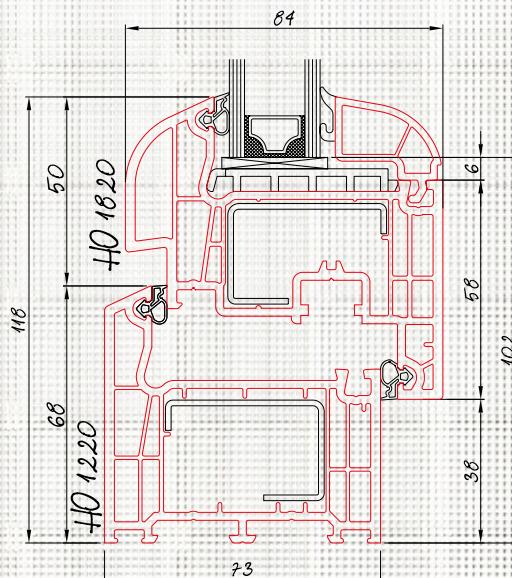
Product characteristics available on pages 28/29

Handle characteristics available on pages 30/31

Veneer catalogue available on pages 32/33

Spacer and muntin colours available on pages 34/35

redARTE



scale 1:2

red

11 cm!



red**VISIO**

ABAKUS redVISIO window is a unique solution. A modern, panoramic window with a flying mullion, which allows impressively light the interior. Its central module is only 11 centimetres wide, thanks to which it does not interrupt the view and lets even more natural light into the rooms. High-quality fittings and the almost central handle improve the ergonomics of the window and turn its exploitation into pure pleasure. Applied anti-burglary protection lets us sleep peacefully.

Standard version:

- + white uPVC profile with two black 2-chamber gaskets
- + circumferential fitting with handle and hinge covers in white or brown
- + double glazing with heat transfer coefficient $U_g=1.1 \text{ W/m}^2\text{K}$
- + triple glazing with heat transfer coefficient $U_g=0.6 \text{ W/m}^2\text{K}$ as an option
- + sealed under-sill bar
- + 5-chamber frame and sash profile made of the highest quality uPVC
- + 73 mm frame depth
- + micro-ventilation in Tilt & Turn sashes
- + two security strikers in each sash

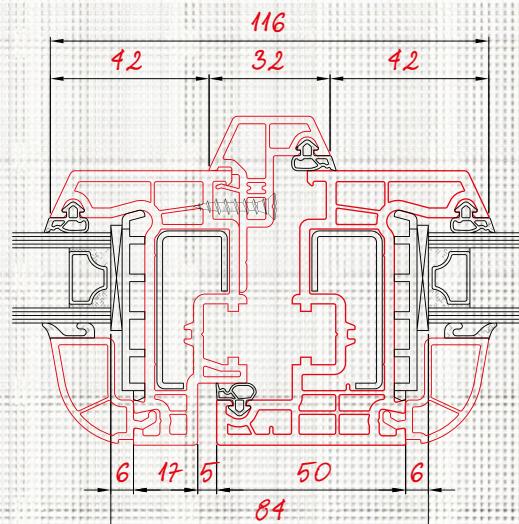
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redVISIO



scale 1:2

blu

bluENERGY



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 version:

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

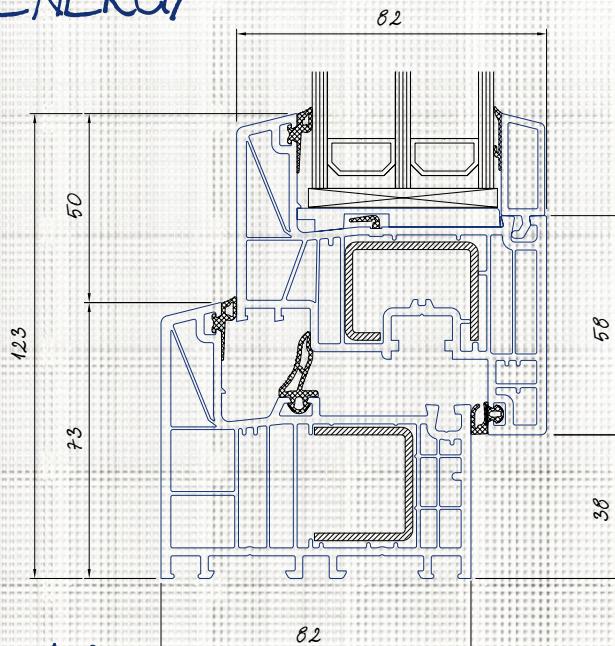
Product characteristics available on pages 28/29

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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 version:

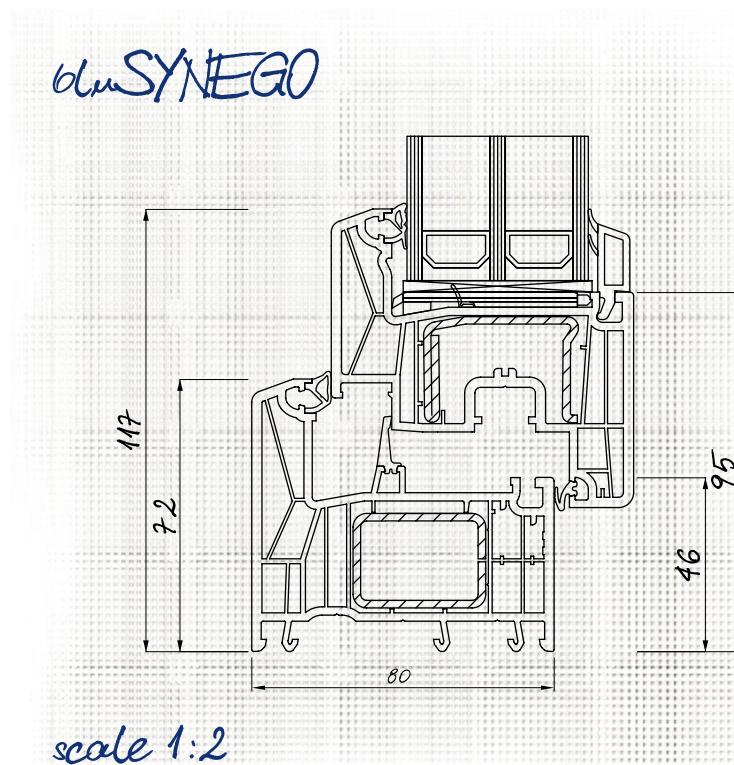
- + white SYNEGO profile with three black or grey gaskets
- + incredibly smooth external surface, thanks to HDF technology
- + circumferential fitting with handle and hinge covers in a colour of your choice
- + triple glazing with heat transfer coefficient $U_g=0.5 \text{ W/m}^2\text{K}$
- + Swisspacer warm edge in one of six colours
- + sealed under-sill bar
- + 7-chambers frame and 6-chambers 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



blu



blu**DECORO**

bluDECORO

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 version:

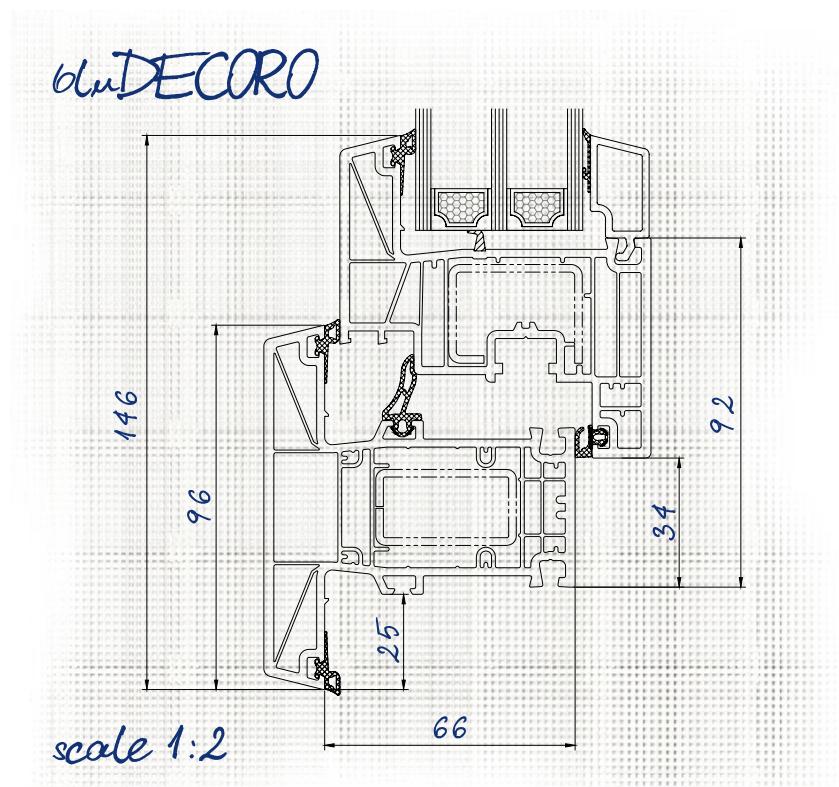
- + white uPVC profile with three black or grey gaskets
- + circumferential fitting with handle and hinge covers in a colour of your choice
- + triple glazing with heat transfer coefficient $U_g=0.5 \text{ W/m}^2\text{K}$
- + Swisspacer warm edge in one of six colours
- + sealed under-sill bar
- + 82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

Product characteristics available on pages 28/29

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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 version:

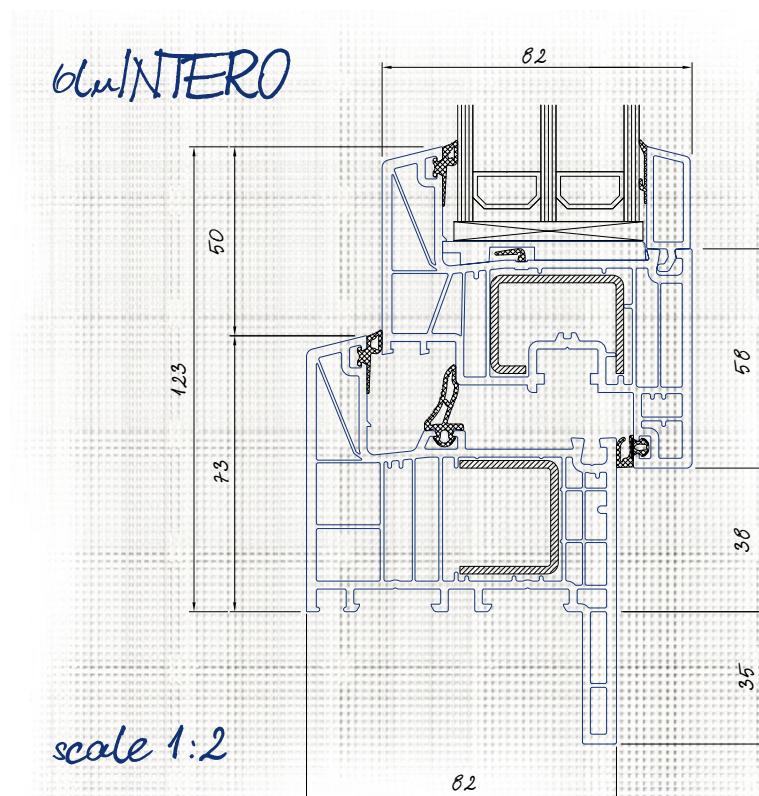
- + white uPVC profile with three black or grey gaskets
- + circumferential fitting with handle and hinge covers in a colour of your choice
- + triple glazing with heat transfer coefficient $U_g=0.5 \text{ W/m}^2\text{K}$
- + Swisspacer warm edge in one of six colours
- + sealed under-sill bar
- + 6-chamber frame and sash profile 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

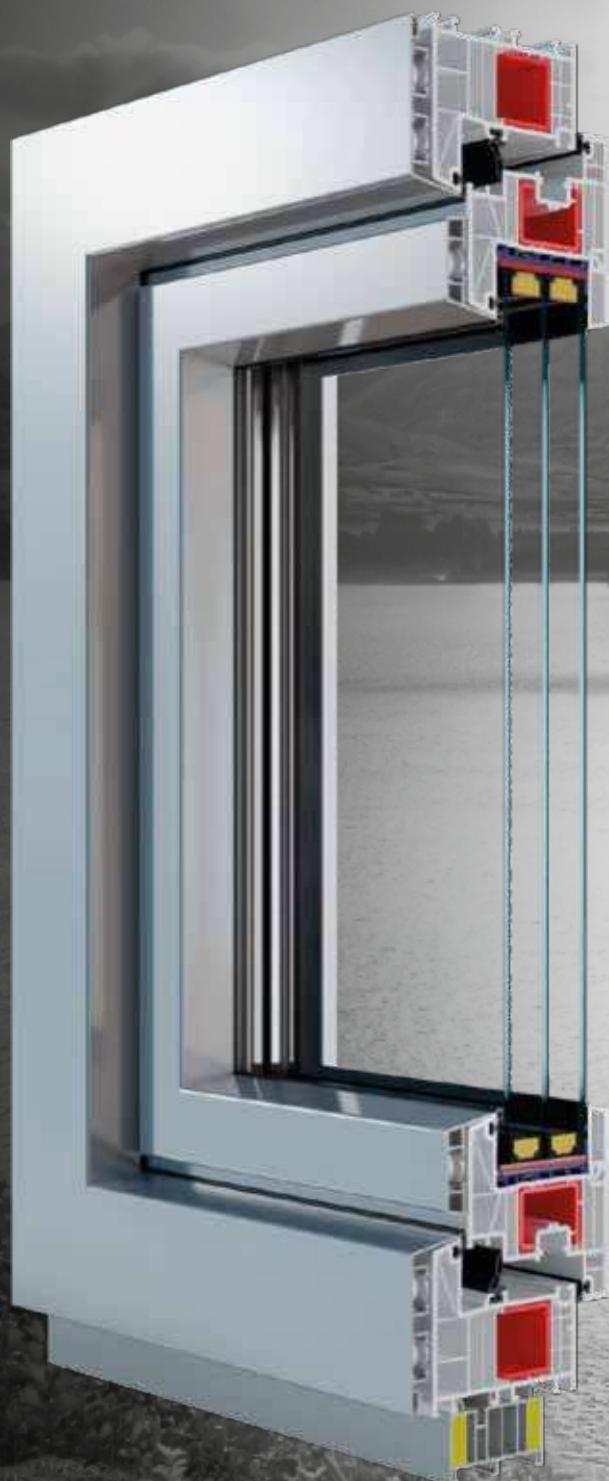
Veneer catalogue available on pages 32/33

Spacer and muntin colours available on pages 34/35



blu

blu**ALU**



Anyone who wants to maximise the lifespan of their PVC windows should consider installing aluminium clads of our own production. Systems consisting of strips, welded or crimped at the corners, are an effective way to protect joinery against the harmful influence of weather phenomena. Simple installation by means of systemic latches guarantees the independence of both components, PVC and aluminium, from one another. We offer aluminium clads in a wide range of RAL colours - so that everyone can find something suitable.

Standard version:

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

Product characteristics available on pages 28/29

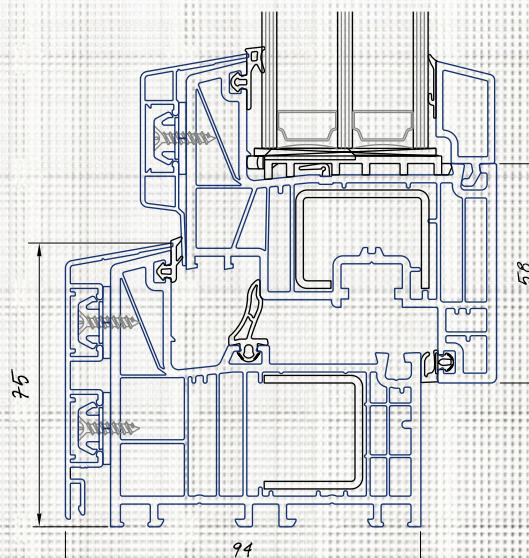
Handle characteristics available on pages 30/31

Veneer catalogue available on pages 32/33

Spacer and muntin colours available on pages 34/35

Aluminium clads colours available on page 36

bluALU

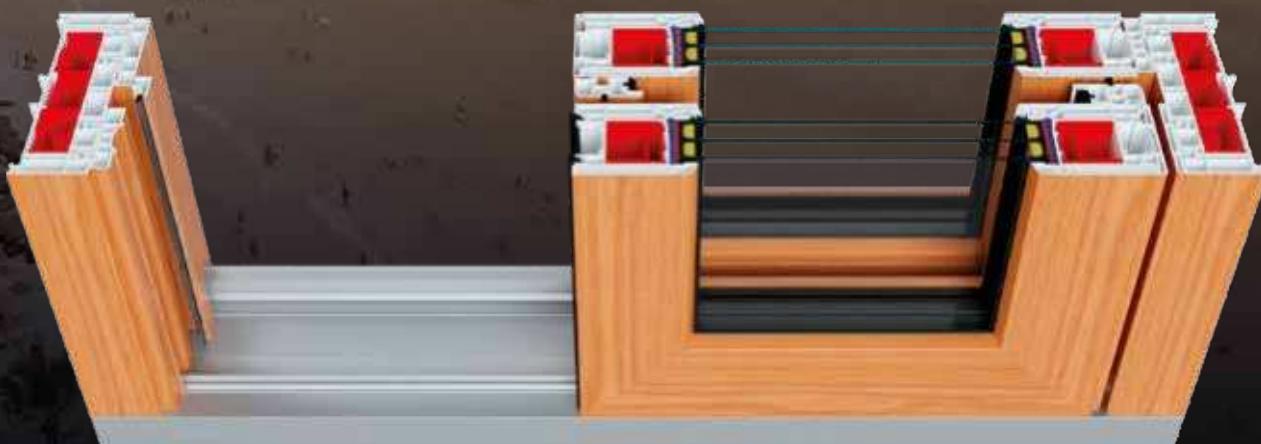
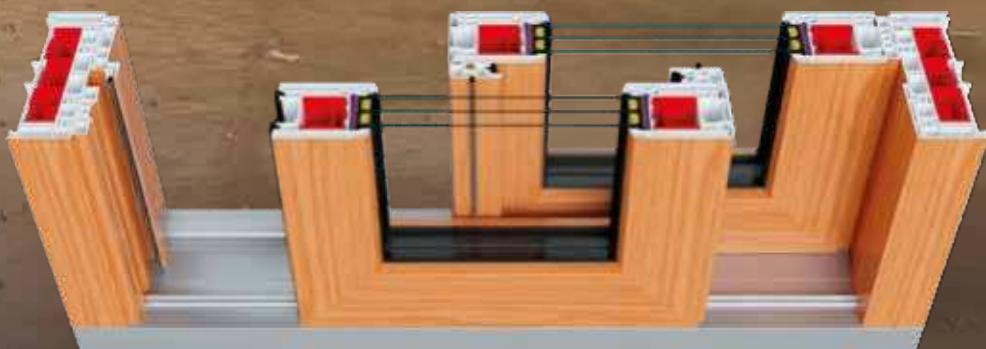


scale 1:2

HS



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 and 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 version:

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

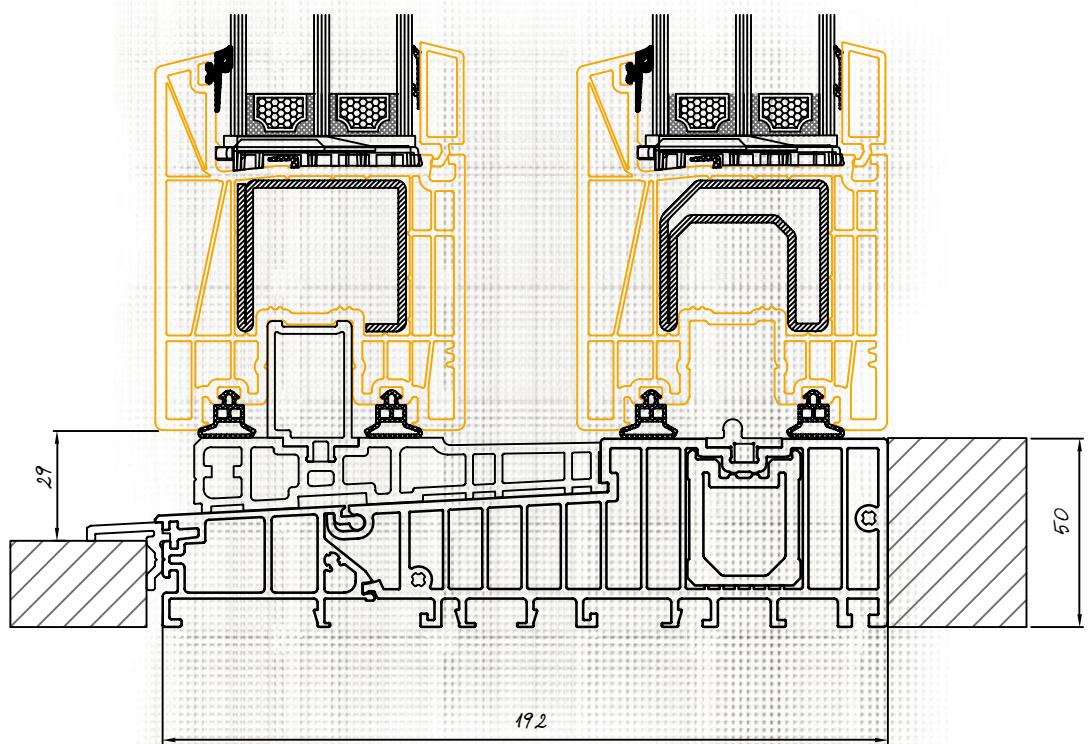
Product characteristics available on pages 28/29

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



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 tilted 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 version:

- + white PSK profile with gaskets in black or grey
- + triple glazing with heat transfer coefficient $U_g=0.5 \text{ W/m}^2\text{K}$
- + Swisspacer warm edge in one of six colours
- + micro-ventilation
- + frame depth 73 mm or 82 mm (Salamander), 80 mm (Rehau)

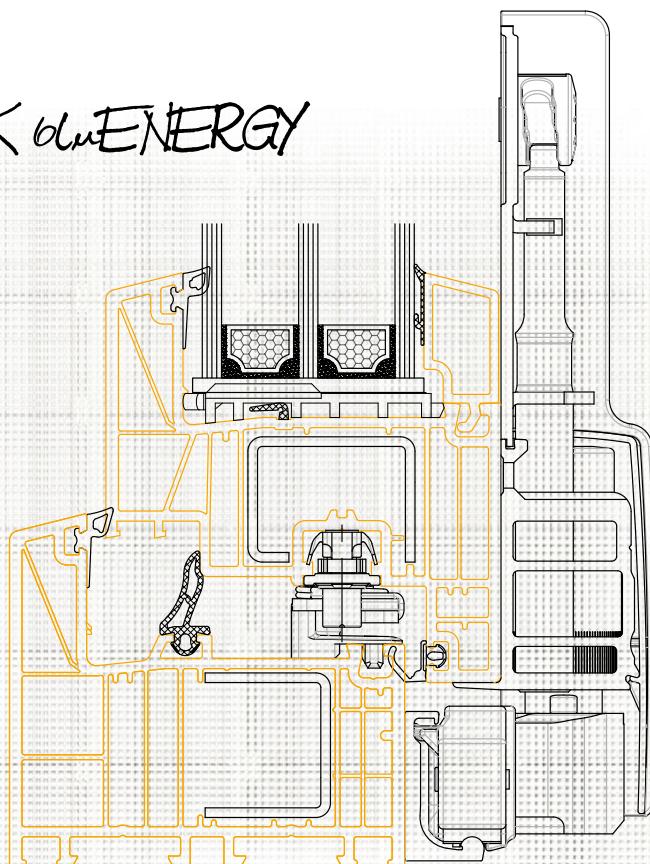
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Spacer and muntin colours available on pages 34/35

PSK *blue* ENERGY



scale 1:2

Synego SLIDE

Synego SLIDE



Synego SLIDE

Here are some of the smartest sliding doors for modern home. Patio doors Synego 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 Synego 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 Synego SLIDE door you can enjoy unparalleled warmth, blissful silence and the highest security in your own home.

Standard version:

- + white Synego profile with two black gaskets
- + triple glazing with heat transfer coefficient $U_g=0.5 \text{ W/m}^2\text{K}$
- + Swisspacer in one of six colours
- + low energy-saving threshold with increased insulation
- + frame depth 156 mm

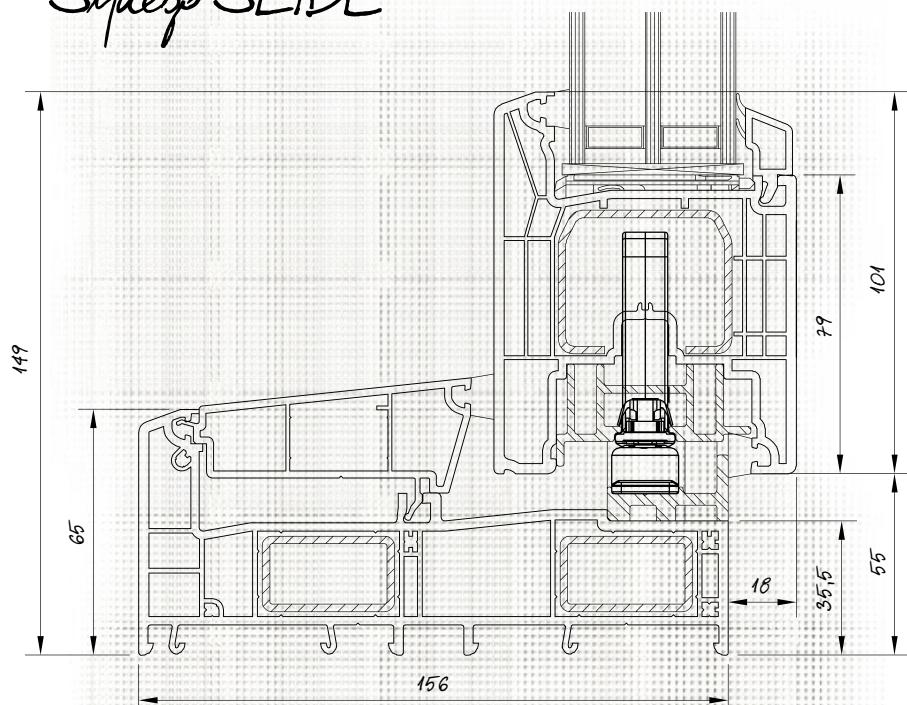
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Synego SLIDE



scale 1:2

ABAKUS windows and doors

	red line		blu line	
	redTECH / redARTE	redVISIO	bluENERGY	bluSYNEGO
Frame depth	73 mm	73 mm	82 mm	80 mm
5-chamber profiles SALAMANDER bluEvolution 73	✓	✓	✗	✗
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 burglar inhibiting 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 4/16/4/16/4 Ug = 0.6 W / m²k	○	○	✗	✗
Triple glazing 4/18/4/18/4 Ug = 0.5 W / m²k	✗	✗	✓	✓
Swisspacer warm edge	○	○	✓	✓
Aluminium spacer	✓	✓	○	○
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	○	○	○	○

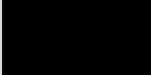
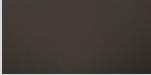
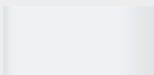
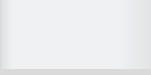
✓ - available ✗ - unavailable ○ - optional

characteristics

blu line			HS Rehau/Salamander	PSK			Synego SLIDE
bluDECORO	bluINTERO	bluALU		redTECH/redARTE	bluENERGY	bluSYNEGO	
82 mm	82 mm	94 mm	190/194 mm	73 mm	82 mm	80 mm	156 mm
X	X	X	X	✓	X	X	X
✓	✓	✓	X	X	✓	X	X
X	X	X	X	X	X	✓	X
EQUIPMENT							
✓	✓	✓	X	X	X	X	X
o	o	o	X	X	X	X	X
o	o	o	X	X	X	X	X
✓	✓	✓	X	✓	✓	✓	✓
o	o	o	X	o	o	o	X
o	o	o	X	o	o	o	X
o	o	o	X	X	X	X	X
✓	✓	✓	X	X	X	X	X
o	o	o	X	X	X	X	X
o	o	o	X	X	X	X	X
o	o	o	o	o	o	o	o
o	o	o	X	X	X	X	X
o	o	o	X	X	X	X	X
o	o	o	o	o	o	X	o
X	X	X	X	o	X	X	X
✓	✓	✓	o	X	o	o	o
✓	✓	✓	✓	o	✓	✓	✓
o	o	o	o	✓	o	o	o
✓	✓	✓	X	✓	✓	✓	X
SOLAR CONTROL GLASS							
o	o	o	o	o	o	o	o
o	o	o	o	o	o	o	o
o	o	o	o	o	o	o	o
o	o	o	o	o	o	o	o
o	o	o	o	o	o	o	o
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LAMINATED GLASS							
o	o	o	o	o	o	o	o
o	o	o	o	o	o	o	o
o	o	o	o	o	o	o	o
SOUND-PROOF GLASS							
o	o	o	o	o	o	o	o
o	o	o	o	o	o	o	o
o	o	o	o	o	o	o	o

Handle characteristics

Available colours

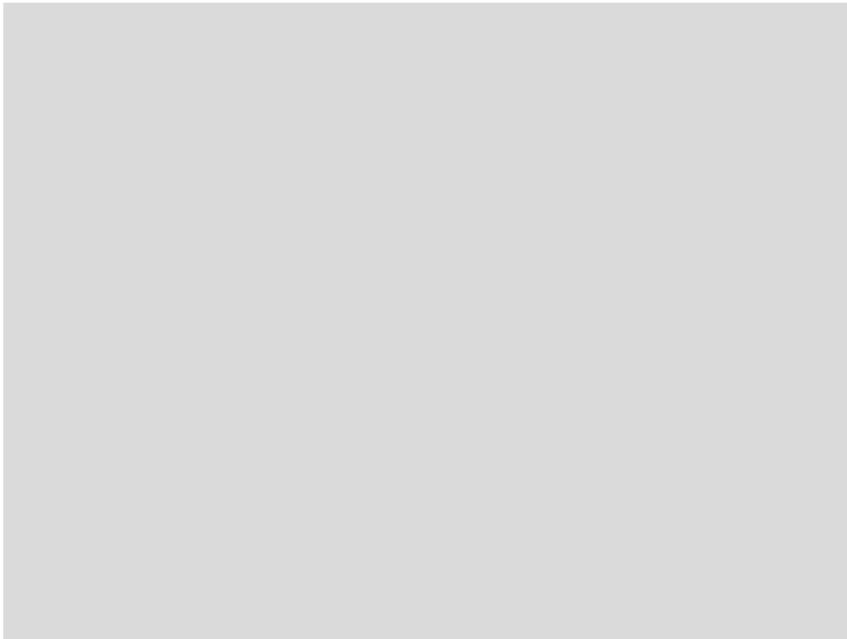
old gold		black R06.2	
titanium		grey brown R04.1	
silver		old gold R05.5	
brown		titanium matt R01.3	
white		silver R01.1	
		medium bronze R05.3	
		white R07.2	

Handle model

			
standard	secustik	secustik with button	secustik with key

redTECH / redARTE	✓	○	○	○
redVISIO	✓	○	○	○
bluENERGY	○	✓	○	○
bluSYNEGO	○	✓	○	○
bluDECORO	○	✓	○	○
bluINTERO	○	✓	○	○
bluALU	○	✓	○	○
HS	✗	✗	✗	✗
PSK	✗	✗	✗	✗
Synego SLIDE	✗	✗	✗	✗

✓ - available ✗ - unavailable ○ - optional



swing



swing with button



swing with 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	✓

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ABAKUS veneers

STANDARD VENEERS SALAMANDER



Anthrazitgrau (55)



Mooreiche (25)



Golden oak (51)



Nussbaum (21)



Nebraska (33)



Mahagoni (26)

OPTIONAL VENEERS SALAMANDER



Jet black matt (18)



Bergkiefer (50)



Grau (02)



Alux DB 703 (37)



Schwarzbraun (71)



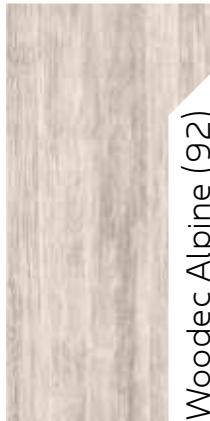
Vintage Oak (41)



Woodec Oak (91)



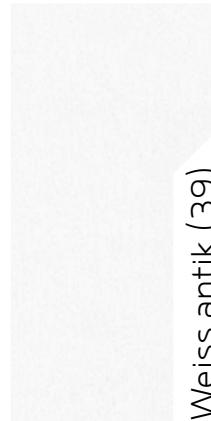
Woodec Concrete (93)



Woodec Alpine (92)



Creme (59)



Weiss antik (39)



Polareiche (43)



Metbrush anthrazit (67)



Basaltgrau (74)



Anthrazitgrau Satin (88)



Dunkelgrün (03)



Metbrush alu (69)



Streifen Douglasie (27)

Veneered PVC products have black gaskets.

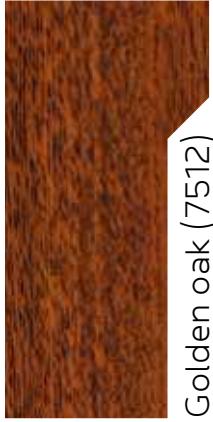
STANDARD VENEERS REHAU



Anthracite Grey (4443)



Dark oak FL-F1 (4914)



Golden oak (7512)



Walnut (225L)



Winchester XA (1208L)



Sapelli (9632)

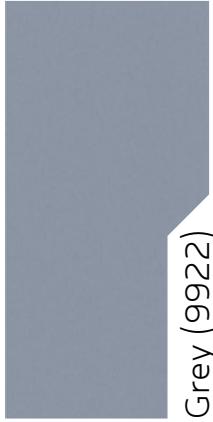
OPTIONAL VENEERS REHAU



Midnight Black Matt (1980L)



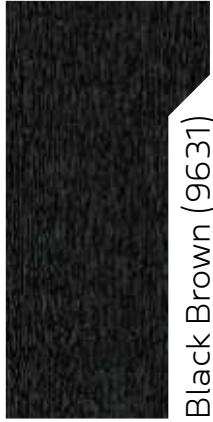
Mountain Pine (7396)



Grey (9922)



Alux DB 703 (1642L)



Black Brown (9631)



Irish oak (913L)



Turner Oak malt (2031L)



Sheffield Oak concrete (2039L)



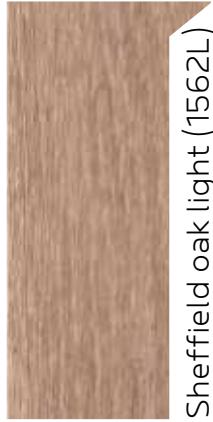
Sheffield Oak alpine (2039L)



Cream (4444)



White (9734)



Sheffield oak light (1562L)



Metbrush anthracite grey (1392L)



Basalt grey (134L)



Anthracite grey matt (2005L)



Moos green (4925)



Metbrush aluminium (1049L)



Stripe douglas (4404)

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AVAILABLE SHAPES

	RECTANGULAR	NON-RECTANGULAR	ARCHED
redTECH / redARTE	✓	✓	✓
redVISIO	✓	✓	✓
bluENERGY	✓	✓	✓
bluSYNEGO	✓	✓	X
bluDECORO	✓	X	X
bluINTERO	✓	X	X
bluALU	✓	✓	X
HS	✓	X	X
PSK	✓	X	X
Synego SLIDE	✓	X	X

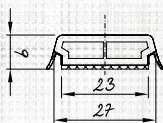
✓ - available X - unavailable

DISTANCE SPACER COLOURS

redTECH / redARTE	Aluminium	
redVISIO		
redTECH / redARTE	White	Light brown
redVISIO		
bluENERGY		
bluSYNEGO	Light grey	Brown
bluDECORO		
bluINTERO		
bluALU		
HS	Grey	Black
PSK		
Synego 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

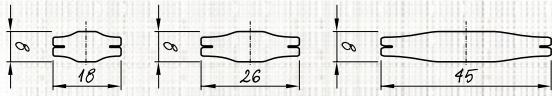


scale 1:2



IN-PANE MILLED MUNTINS

- + placed between glazing units
- + made of aluminum alloy, powder coated in any colour on the RAL palette and in any texture
- + available in widths: 18 mm, 26 mm, 45 mm

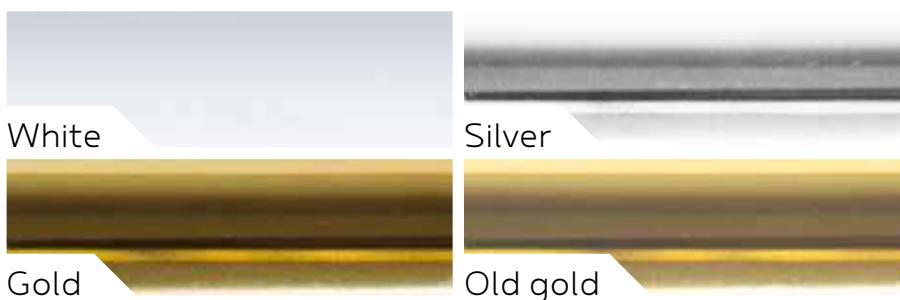


scale 1:2



IN-PANE CLAMPED MUNTINS

- + placed between glazing units
- + made of aluminum alloy, powder coated in white, gold, old gold and silver
- + joined by means of cross-pieces and joint pieces at intersections



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Colours

OPTIONAL VENEERS



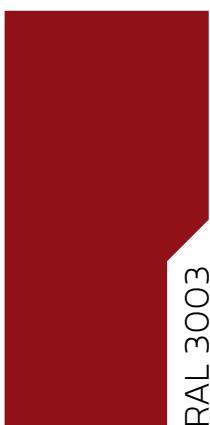
RAL 1013



RAL 1033



RAL 3002



RAL 3003



RAL 5010



RAL 5013



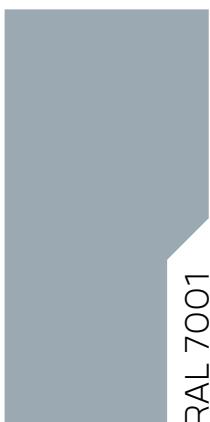
RAL 5015



RAL 6005



RAL 6029



RAL 7001



RAL 7016



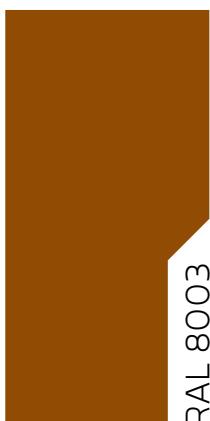
RAL 7035



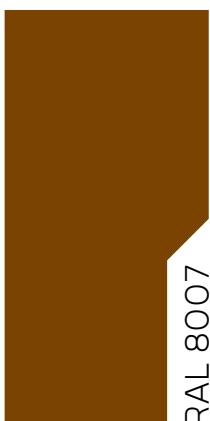
RAL 7042



RAL 8001



RAL 8003



RAL 8007



RAL 8011



RAL 8017



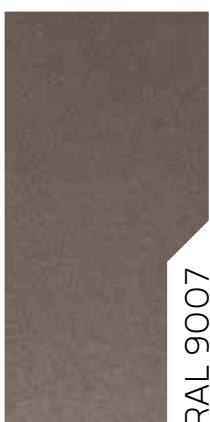
RAL 8019



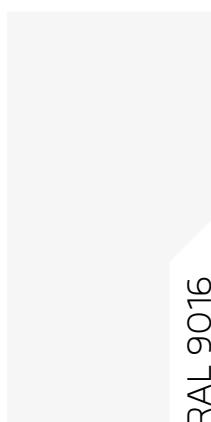
RAL 9005



RAL 9006



RAL 9007



RAL 9016

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