

BALCONY AND EXTERIOR DOORS



2020



A MODERN DESIGN FOR THE MOST DEMANDING CUSTOMERS

A guarantee of durability, security and the highest precision of workmanship.

Abakus manufactures lift-and-slide, tilt-and-slide as well as exterior doors. Every door is manufactured using the latest technology, from PVC and aluminum of the highest quality, with a wide range of patterns. Adapted to individual needs and with attention to the finest detail, they are a phenomenal decorative element for any home.



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ABAKUS

BALCONY DOORS

Elegance, refinement, style. Abakus balcony doors combine extravagant design with the best thermal and acoustic insulation specifications and the highest safety ratings.

They are everything a modern home needs.

PAGES:

06 — 11

PAGES:

12 — 17

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HS PVC lift-and-slide
balcony door



HS ALU lift-and-slide
balcony door



PVC tilt-and-slide
balcony door



WARMTH AND ELEGANCE

HS **PVC** LIFT-AND-SLIDE BALCONY DOOR



NUMBER OF CHAMBERS

5



THICKNESS OF INSTALLATION PROFILE

190 mm (Rehau) 194mm (Salamander)



HEAT TRANSFER COEFFICIENT OF GLAZING

0.5 W/m²K



HEAT TRANSFER COEFFICIENT OF DOOR

0.8 W/m²K*



GUARANTEE

2 years

* Applies to HS with dimensions 3000 mm / 2300 mm scheme A



Ideal translucency, phenomenal glazings and the best specifications. The HS PVC lift-and-slide balcony door from Abakus captivates with its inimitable aesthetic and excellent thermal insulation.

- Design, security and energy savings
- Thanks to the large area of glazings, this door provides maximum lighting and sunlight penetration
- Endless home design possibilities, and it saves space – all thanks to the sliding leaf system
- Fluid and quiet sliding of door segments thanks to modern HS portal fittings with a sliding unit consisting of wheels moving in aluminum guides
- The door's low threshold allows for a fluid transition from the interior to the balcony or terrace, which is a perfect solution for children, the elderly and disabled people
- The threshold's special design augments thermal insulation, which translates to energy savings
- Anti-pry 4-point bolting system – guaranteeing optimal protection and security.

BALCONY DOORS

Modern technology, large glazing surface, combined with light opening. The highest, refined functionality for the modern home.



BASIC VENEER COLORS



R: Anthracite
S: Anthracite



R: Mahogany
S: Mahogany



R: Walnut
S: Walnut



R: Swamp Oak
S: Swamp Oak



R: Winchester
S: Nebraska



R: Golden Oak
S: Golden Oak

EXAMPLES OF ADDITIONAL VENEER COLORS



R: Sheffield Oak Alpine
S: Woodec Alpine



R: Sheffield Oak Concrete
S: Woodec Concrete



R: Tutner Oak Malt
S: Woodec Oak



R: Midnight Black Matt
S: Jet Black Matt



R: Grey shale
S: Schiefergrau



R: Grey Agate
S: Agate



R: Alux DB 703
S: Alux DB 703



R: Smooth Anthracite
S: Satin Anthracite



R: Mountain pine
S: Bergkiefer



R: Burgundy
S: Weinrot



R: Creamy white
S: Cream



R: Grey Quartzite
S: Quartz



R: Douglas Fir
S: Summer Douglas Fir



R: Light Grey
S: Lichtgrau



R: Brushed Aluminum
S: Metbrush Alu



R: Brushed Metallic Anthracite
S: Metbrush Anthracite



R: Oregon
S: Oregon



R: Steel blue
S: Steel blue



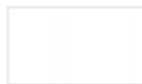
R: Grey
S: Grey



R: Grey Basalt
S: Basalt



R: Light Bleached Oak
S: Polareiche



R: White
S: White



R: Satin Signal Grey
S: Signalgrau Satin



R: Dark green
S: Dark green



R: Grey Bleached Oak
S: Vintage Oak



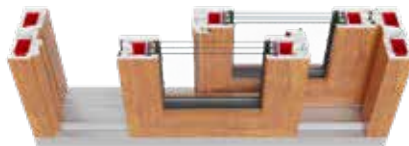
R: Palisander/Dark Bronze
S: Dark Bronze

KEY:

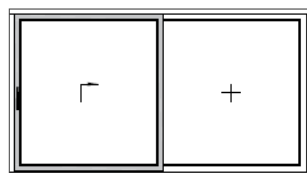
R: REHAU

S: SALAMANDER

SCHEMATICS AND MAXIMUM OVERALL DIMENSIONS

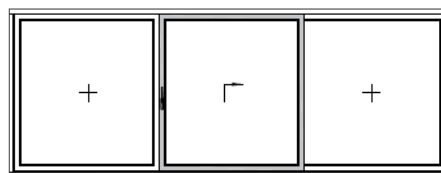


SCHEMAT A



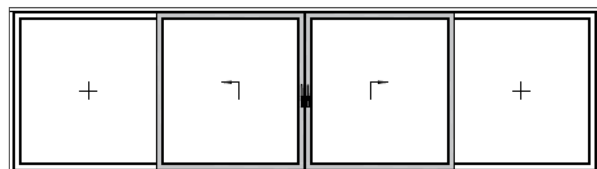
max. 5 000 mm

SCHEMAT G



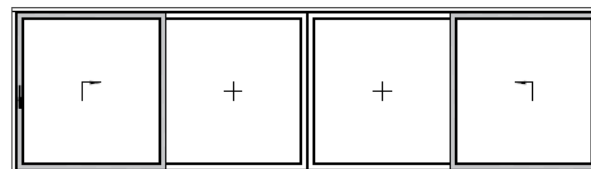
max. 5 000 mm

SCHEMAT C



max. 5 000 mm

SCHEMAT K



max. 5 000 mm

BALCONY DOORS



HS PVC lift-and-slide balcony doors from Abakus set a new standard of comfort and security for users. Available with the SIEGENIA ECO PASS threshold in the standard version and without barriers.

- Barrier-free solution of the future – the guide of the replaceable running rail is found at a height of 5 mm above the threshold
- The threshold profile is flush with the edge of the frame on both sides
- The 10-chamber design of the threshold ensures ideal thermal insulation
- It meets the most rigorous energy-saving and tightness requirements
- It affords extraordinary freedom of movement and independence, particularly for elderly people or people with restricted mobility
- The harmonious combination of the glazing and the threshold construction is a design masterpiece that optically enlarges the building and raises quality of life



Abakus offers the possibility of equipping HS PVC balcony doors with the totally concealed SOFT CLOSE shock absorber. This is a new, innovative Premium solution that satisfies the most demanding design expectations, improves the standard of installation and enhances convenience of use.

OUR DESIGNERS' CROWN JEWEL

HS **ALU** LIFT-AND-SLIDE BALCONY DOOR



THICKNESS OF INSTALLATION PROFILE

174 mm (Aluprof system)



HEAT TRANSFER COEFFICIENT OF GLAZING

0.5 W/m²K*



HEAT TRANSFER COEFFICIENT OF DOOR

1.1 W/m²K



GUARANTEE

2 years

* Applies to HS with dimensions 3000 mm / 2300 mm scheme A



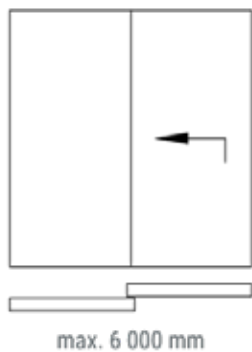
Due to their exclusive design and ideal specifications, panoramic, glazed HS lift-and-slide balcony doors, made of the highest-grade aluminum are a favorite among interior designers.

- The elegance of monumental glazings and luxurious durability of aluminum
- Excellent enclosure joining rooms; convenient exit onto balcony, terrace or patio, or into the open space of a garden
- When open, the door does not occupy space inside the room, which raises its convenience of use
- Manufactured based on the MB-77HS system, with the highest specifications: air permeability: class 4, EN 12207; water-tightness: class 9A, EN 12208; wind load resistance: up to class C4, EN 12210
- Possible design variants: ST and HI due to thermal insulation specifications, double- or triple-glazing packages
- Perfectly suited for both single-family buildings and comfortable apartments or hotels
- At the Customer's request, Abakus equips HS lift-and-slide balcony doors with the HS master motor. Thanks to this motor, the door can be opened and closed with the push of a button or by remote control.

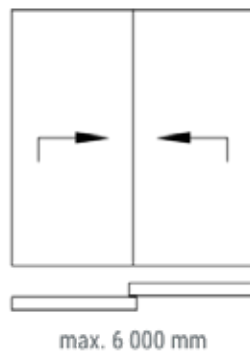
ALU

SCHEMATICS AND MAXIMUM OVERALL DIMENSIONS

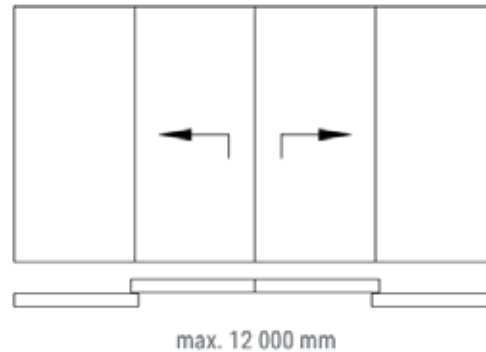
SCHEMAT A



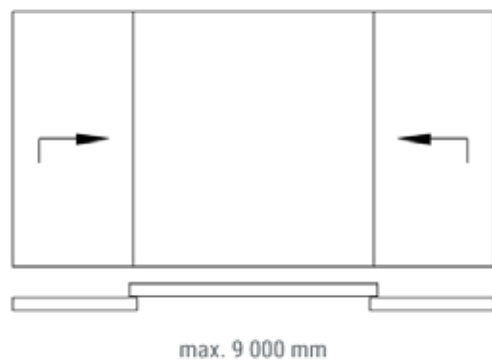
SCHEMAT D



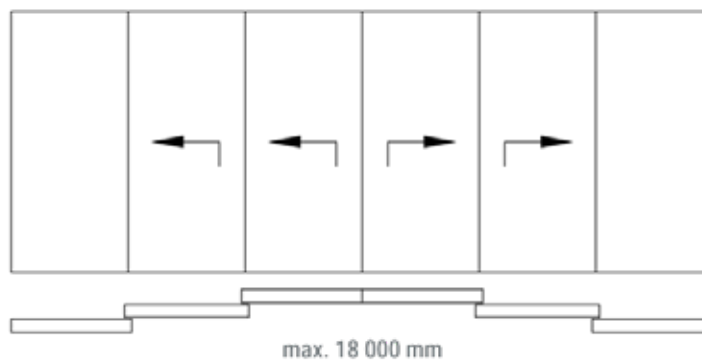
SCHEMAT C



SCHEMAT K



SCHEMAT C+G+G



WOOD IMITATION COLORS



Gean C212



Gean C106



Chestnut



Gean



Winchester



Wenge



Cherry



Beech



Fir S208



Fir



Pine S110



Pine



Mahogany Sapeli



Mahogany



Walnut Vein



Walnut



Golden Oak



Rustic Oak



Swamp Oak



Ebony



BALCONY DOORS

ALU





Aluminum balcony doors from Abakus can optionally be equipped with the innovative SOFT CLOSE function!

- The solution, which is totally concealed and visually attractive, is available for lift-and-slide systems from Abakus
- Shock absorption makes opening and closing of a door even up to 400 kg light as a feather
- The mechanism brakes the leaf's movement in the final closing phase and then gently brings it into the frame, preventing trapping and injury in the case of incorrect use
- The leaf closes fluidly, delicately and nearly soundlessly, does not slam and minimizes the risk of damage to the frame
- This modern solution is very easy to use, gentle and safe even for small children
- The product is a Premium solution

NATURAL LIGHT AND VENTILATION TILT-AND-SLIDE **PVC** BALCONY DOORS

It can be installed in different systems.

At the customer's request, we can adjust any specifications, including the thickness of the installation profile and the heat transfer coefficient of the glazing and door.





Impressive glazings and abundant home lighting, combined with very good specifications, make Abakus tilt-and-slide balcony doors the first choice for many people.

- Expansive glazings optically enlarge the interior and let natural light in, and the large, transparent surfaces become a natural transition between the living room and the terrace or garden
- The door saves space and provides excellent ventilation of rooms.
- Equipped with the Roto Patio Alversa system, they are available in 3 options:
 - 1.) Economic KS tilt-and-slide system – creates optimal conditions for ventilation thanks to its tilting function;
 - 2.) PS parallel sliding system – additionally equipped with the microventilation function and anti-prying latches, securing the home against burglary even in the door's microventilating position;
 - 3.) PS Air COM parallel sliding system – the only system of its type on the market, equipped with a ventilation function in its tilted position, enabling excellent airing of residences. Additionally equipped with an automatic handle control mechanism, it makes opening and closing the door exceptionally convenient.

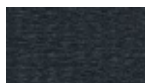
TILT-AND-SLIDE

PVC OF THE HIGHEST QUALITY

A convenient and functional door that adds class to any building where it is installed.



BASIC VENEER COLORS



R: Anthracite
S: Anthracite



R: Mahogany
S: Mahogany



R: Walnut
S: Walnut



R: Swamp Oak
S: Swamp Oak



R: Winchester
S: Nebraska



R: Golden Oak
S: Golden Oak

EXAMPLES OF ADDITIONAL VENEER COLORS



R: Sheffield Oak Alpine
S: Woodec Alpine



R: Sheffield Oak Concrete
S: Woodec Concrete



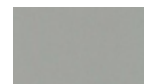
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S: Jet Black Matt



R: Grey shale
S: Schiefergrau



R: Grey Agate
S: Agate



R: Alux DB 703
S: Alux DB 703



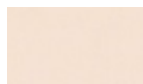
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S: Satin Anthracite



R: Mountain pine
S: Bergkiefer



R: Burgundy
S: Weinrot



R: Creamy white
S: Cream



R: Grey Quartzite
S: Quartz



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S: Summer Douglas Fir



R: Light Grey
S: Lichtgrau



R: Brushed Aluminum
S: Metbrush Alu



R: Brushed Metallic Anthracite
S: Metbrush Anthracite



R: Oregon
S: Oregon



R: Steel blue
S: Steel blue



R: Grey
S: Grey



R: Grey Basalt
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R: Light Bleached Oak
S: Polareiche



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S: White



R: Satin Signal Grey
S: Signalgrau Satin



R: Dark green
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S: Vintage Oak



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KEY:

R: REHAU

S: SALAMANDER





EXTERIOR DOORS

Exterior doors are a house's calling card and one of the key components of its joinery. Choosing the right entry door is not only associated with consideration for the aesthetic of the house's shape.

Those who choose exterior doors from Abakus are investing in comfort, security and a striking design.

PAGES:

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PAGES:

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Exterior door
with **PVC frame-fitted filling**



Exterior door
with **ALU frame-fitted filling and panel**

Exterior door
with **panel overlay**

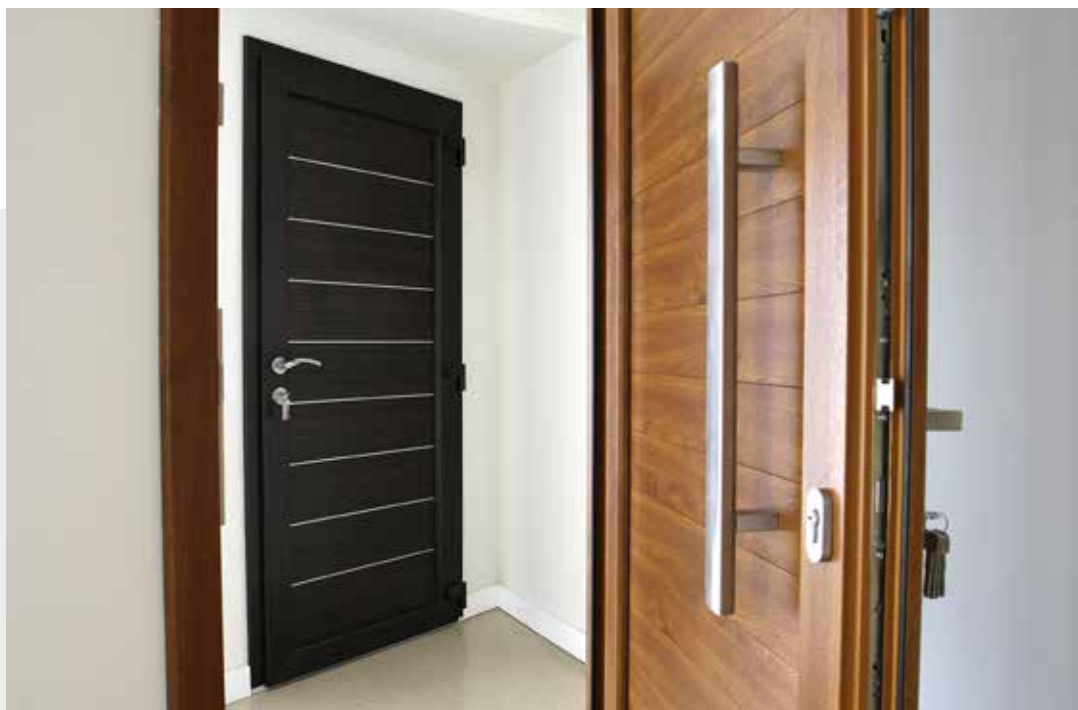
Exterior door
with **fingerprint scanner**



SECURITY AND ELEGANCE

EXTERIOR DOOR

WITH **PVC** FRAME-FITTED FILLING



Abakus exterior doors with PVC frame-fitted filling are a sensible choice in good taste, with the best specifications in their class

- Entry doors are made of a composite panel insulated by polyurethane foam, which provides excellent thermal protection and insulation
- The possibility of composing custom panel fillings means that this product can easily be adapted to your needs and the architect's assumptions
- Available in many colors and exceptional shapes, with a wide range of handles and handrails to choose from. Their color scheme is consistent with our offer of wood imitation veneers applied on PVC windows
- Exterior doors with frame-fitted filling are an excellent choice and have a great price to quality ratio.



PVC

EXTERIOR DOOR

Doors standing at the intersection of classical and modern design, functionality, durability and precise workmanship



BASIC VENEER COLORS



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R: Alux DB 703
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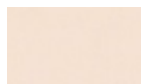
R: Smooth Anthracite
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R: Mountain pine
S: Bergkiefer



R: Burgundy
S: Weinrot



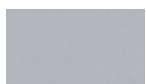
R: Creamy white
S: Cream



R: Grey Quartzite
S: Quartz



R: Douglas Fir
S: Summer Douglas Fir



R: Light Grey
S: Lichtgrau



R: Brushed Aluminum
S: Metbrush Alu



R: Brushed Metallic Anthracite
S: Metbrush Anthracite



R: Oregon
S: Oregon



R: Steel blue
S: Steel blue



R: Grey
S: Grey



R: Grey Basalt
S: Basalt



R: Light Bleached Oak
S: Polareiche



R: White
S: White



R: Satin Signal Grey
S: Signalgrau Satin



R: Dark green
S: Dark green



R: Grey Bleached Oak
S: Vintage Oak



R: Palisander/Dark Bronze
S: Dark Bronze

KEY:

R: REHAU

S: SALAMANDER



AB 110



AB 111



AB 112



AB 113



AB 114



AB 115



AB 116



AB 117



AB 118



AB 119



AB 120



AB 121



AB 122



AB 123



AB 124



AB 125



AB 126



AB 127



AB 128



AB 129



AB 130



AB 131



AB 132



AB 133



AB 134



AB 135



AB 136



AB 137



AB 138



AB 139



AB 140



AB 141



AB 142



AB 143



AB 144



AB 145

ALUMINUM EXTERIOR DOORS

The perfect proposition for those who value security, elegance and perfect workmanship.



THICKNESS OF FILLING PANEL

77-95 mm



THICKNESS OF INSTALLATION PROFILE

77-95 mm



NUMBER OF PANES IN GLAZING

4 pcs.



HEAT TRANSFER COEFFICIENT OF DOOR UD FROM

0.61 W/m²K



GUARANTEE

2 years



**Abakus is a guarantee of reliability,
security and comfort**

- Extravagance, refinement, modernity
- The attractive patterns and colors of entry doors, available in diverse configurations, will satisfy the tastes of even the most demanding customers
- Available with a frame-fitted filling or with a panel overlay (flush with one or both sides, in four design options: ST, SI, SI+ and Aero)

ALU

ABAKUS ALUMINUM EXTERIOR DOOR WITH PANEL OVERLAY OR FRAME-FITTED PANEL

It is the perfect proposition for those who dream of an imposing interior – their unique combination with the leaf makes it possible to install a door with dimensions of up to 1.4 m in width and as much as 2.6 m in height. The door is not only impressive but very functional too. It provides optimal protection against cold and guarantees an extraordinarily low heat transfer coefficient.





Types of overlay fillings for entry doors

- **Filling flush on one side**
 - Uniform leaf plane from the exterior
 - 3-pane (triple glazing) package starting from $U_g = 0.5 \text{ W/m}^2\text{K}$
 - Panel with thickness up to 44 mm
 - Heat transfer coefficient of door UD from $0.9 \text{ W/m}^2\text{K}$
 - Four design variants: ST, SI, SI+ and Aero

- **Filling flush on both sides**
 - Uniform plane on the exterior and interior of the leaf
 - 4-pane (quadruple glazing) package starting from $U_g = 0.4 \text{ W/m}^2\text{K}$
 - Panel thickness 77 mm (MB-86) - 95 mm (MB-104)
 - Heat transfer coefficient of door UD from $0.61 \text{ W/m}^2\text{K}$
 - Four design variants: ST, SI, SI+ and Aero

- **Frame-fitted filling**
 - 3-pane (triple glazing) package $U_g = 0.5 \text{ W/m}^2\text{K}$
 - Panel thickness from 44 to 72 mm
 - Heat transfer coefficient for MB-86 door UD starting from $0.8 \text{ W/m}^2\text{K}$ and for MB-104 UD door starting from $0.63 \text{ W/m}^2\text{K}$
 - Four design variants: ST, SI, SI+ and Aero

EXAMPLES OF MODELS



AB1



AB2



AB3



AB4



AB5



AB6



AB6-White



AB6-Burgundy



AB7

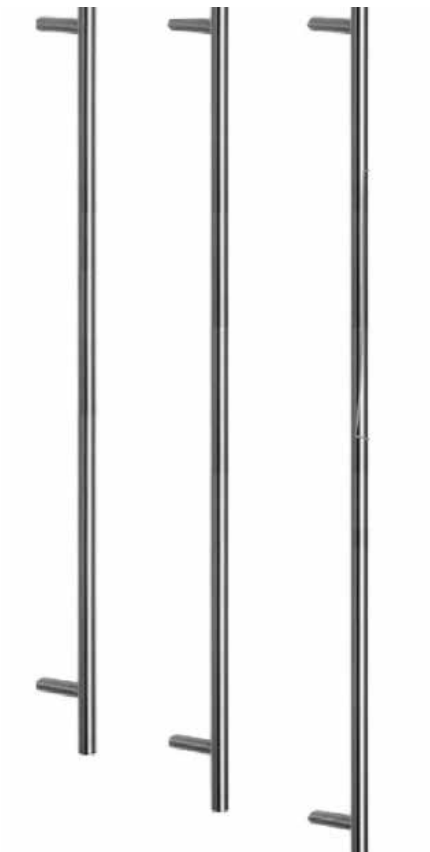


AB8



AB9

EXAMPLES OF AVAILABLE HANDRAILS



PIPE P45



SQUARE Q45RX



SQUARE Q10

AVAILABLE HINGES



CONCEALED HINGE



ROLLER HINGE

ABAKUS ALUMINUM EXTERIOR DOOR WITH FINGERPRINT SCANNER

At the customer's request, every entry door model can be equipped with modern fingerprint scanners, which “remember” up to 200 users. In addition, it is possible to control the door's leaf remotely using a remote control. The actuator concealed inside the leaf will relieve members of the household of opening and closing the door manually – this is why a handrail or handle becomes redundant, with a pleasing effect on the door's appearance, making it truly original.

The product is equipped with a fingerprint scanner using the MB 86 and MB 104 Aluprof profiles, which contains so-called aerogel for excellent thermal insulation.







EXPORT

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PVC DEPARTMENT

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ALUMINUM DEPARTMENT

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: alu@abakus-windows.eu