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# PHYSICAL PROPERTIES OF ALUMINUM

Aluminum is a soft, lightweight, silvery-white metal with high thermal and electrical conductivity. Melting point is 660 °C.

In terms of prevalence in the earth's crust, aluminum ranks the 3rd place after oxygen and silicon among all elements and the 1st place among metals.

The advantages of aluminum and its alloys include its low density (2,7 g / cm<sup>3</sup>), relatively high strength characteristics, good thermal and electrical conductivity, manufacturability, high corrosion resistance. The combination of these properties makes it possible to classify aluminum as one of the most important technical materials.



Aluminum is widely used as a structural material. The main advantages of aluminum in this quality are lightness, pliability to stamping, corrosion resistance.

## FEATURES AND INTENDED USE

In air, aluminum is quickly covered with a strong film of Al<sub>2</sub>O<sub>3</sub>, which prevents its further oxidation, high thermal conductivity, and environmental friendliness of its compounds. In particular, these properties have made aluminum extremely popular in the manufacturing



The introduction of aluminum alloys in construction reduces the metal consumption, increases the durability and reliability of structures during their operation in extreme conditions (low temperature, earthquake, etc.).

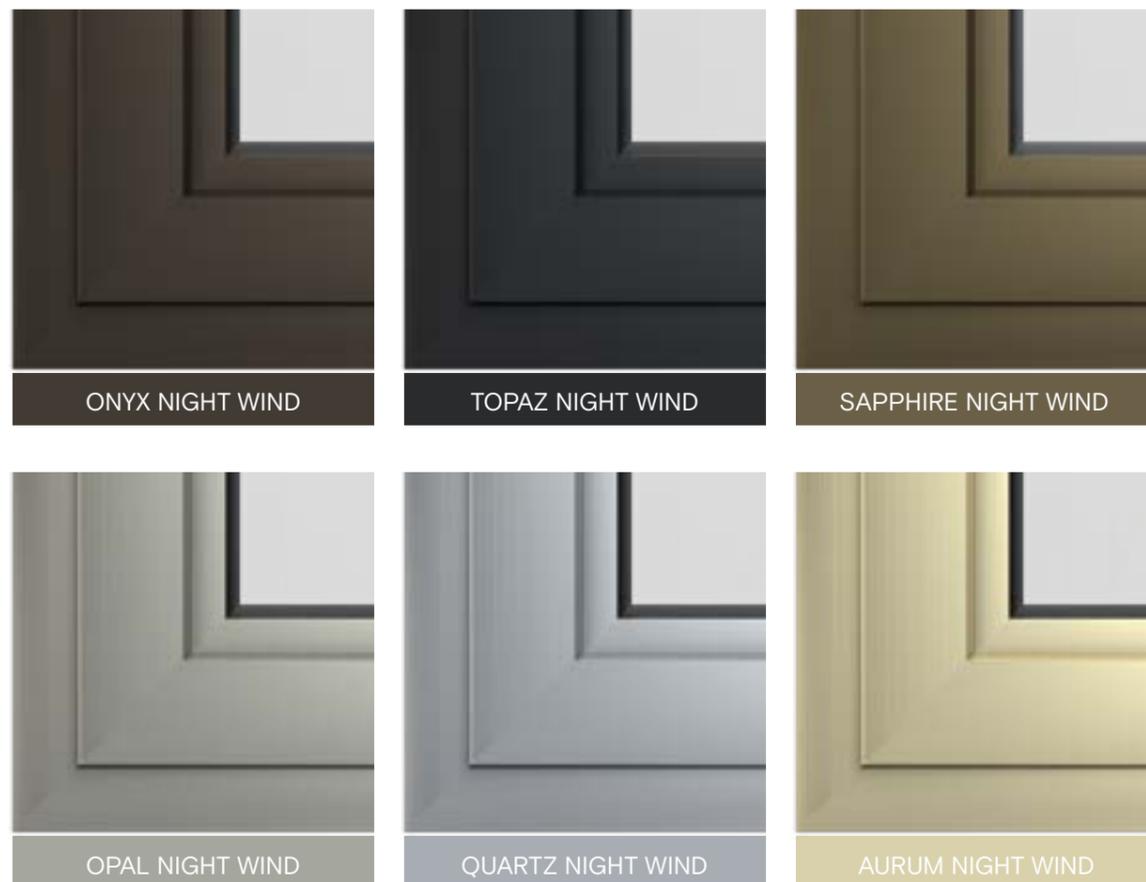
# DESIGNER POWDER COATING AKZO NOBEL

Powder coatings are used in a number of key segments: automotive, furniture and architecture, household appliances and IT devices

Akzo Nobel paint is a series of thermo active industrial polyester powder paints that do not contain TGIC. It possesses increased resistance to solar light and weather conditions, even when applied in one layer to various metal surfaces; it is intended for coloring products exposed to the external environment.

## ANODIZING

Anodizing is the most reliable way to protect aluminum and its alloys from corrosion. Compared to other processing methods, anodizing eliminates the problem of under-film corrosion and coating delamination. In addition to protective properties, anodized aluminum products acquire excellent decorative qualities.



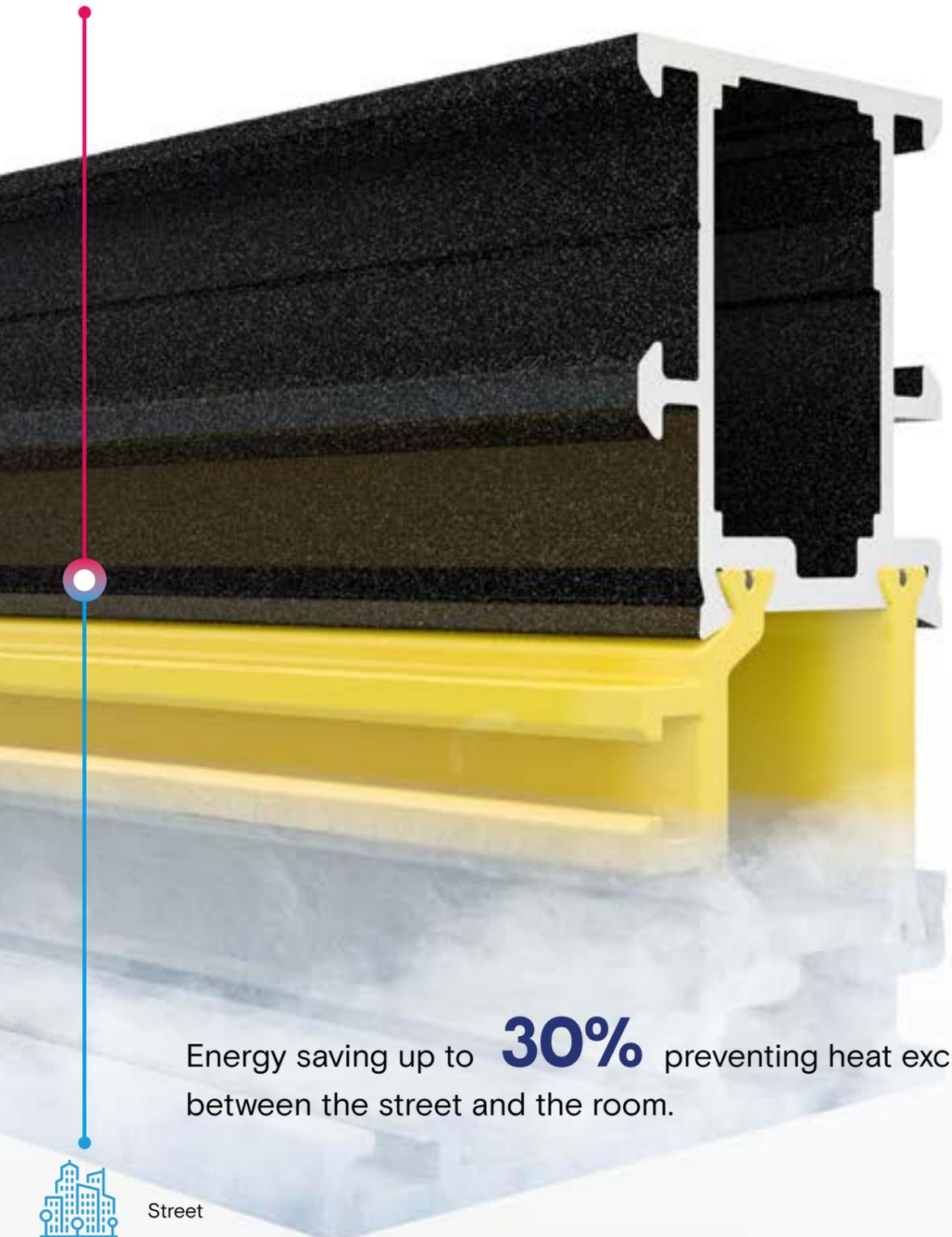
# WHAT DO YOU NEED A THERMAL BRIDGE FOR?

A thermal bridge or a thermal break is a special element with low conductivity values, which, as a rule, is used as an interlayer between different materials in order to reduce or completely eliminate the possibility of heat transfer between them.

In the manufacture of modern windows, a polyamide insert is used as a thermal bridge.

**2,5** times less heat loss in comparison with the cold series without a thermal bridge.

The thermotechnical characteristics of the profile depend on the size and structure of the thermal insert:

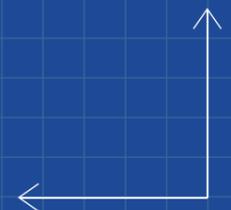


Energy saving up to **30%** preventing heat exchange between the street and the room.



# WINDOW AND DOOR SYSTEMS

Energy costs are steadily increasing, and nothing can be done about it. However, there are a few things you can do to keep your energy consumption from going up to fabulous sums. Have you ever checked the thermal insulation of your home? As a rule, windows that are more than 20 years old are the main source of heat loss. Effective thermal insulation can reduce a significant portion of your costs. And with TERMO windows you can save even up to 80% - thanks to modern technologies.



# AKF 47 CHAMPION

## ECONOM

Aluminum profile systems with single glass are lightweight, and the supporting structures of the building are practically not burdened. The popularity of balcony glazing with an aluminum profile is due to the price, ease of installation.

The profile is made of lightweight, highly corrosion-resistant steel. An alloy from the group of deformable aircraft is plastic. It has proven itself well in aggressive atmospheric conditions, since it is not afraid of moisture, high and low temperatures.



# BKT 57

WINDOW AND  
DOOR SYSTEM



BKT 57 is a new window and door system. An economical solution dictated by the growing popularity of warm aluminum windows. It can be used both in housing construction, renovation, and in public buildings.

# BKT 57

## ECONOM

The system is based on combined profiles, consisting of two aluminum parts, interconnected by means of two thermal inserts made of fiberglass-reinforced polyamide.

Combining profiles make it possible to manufacture structures with good static performance and durable nodal solutions. It is possible to assemble coplanar doors, which are highly reliable and durable.



# BKT 57

The BKT 57 window and door system has a base size of 49 mm for the window frame, 57 mm for the door frame and 57 mm for the casements.

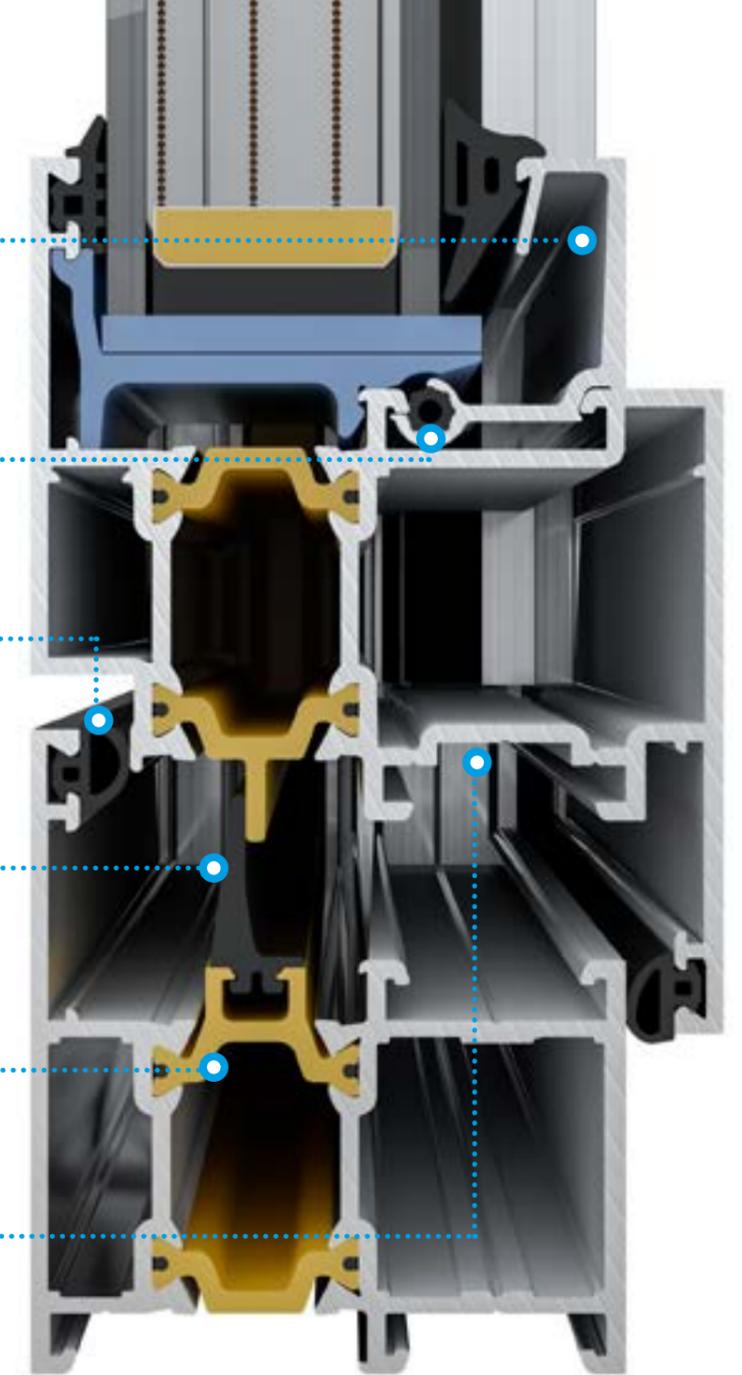
## Technical specifications:

Mounting depth of the window frame:	49 mm
Mounting depth of the door frame:	57 mm
Casement depth:	57 mm
Width of visible part of the casement:	62-92 mm
Width of thermal bridge:	17 mm
Minimum filling thickness:	4 mm
Maximum filling thickness:	30 mm

The present window and door system combines functionality, aesthetics and versatility with a wide variety of architectural solutions at an affordable price.

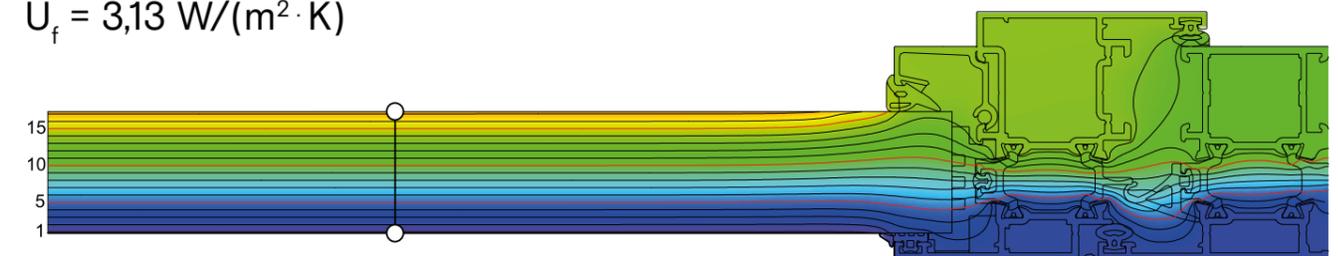
The lightweight and firm BKT 57 window and door system meets the high demands of the market. Thanks to the optimized aluminum profiles, the mounting of the system is carried out in a short time.

- Reinforced glazing bead construction for secure fixation of the glass unit
- Additional sealing contour on the glazing bead
- Additional external insulation contour
- Central sealant
- Thermal bridge width - 17 mm
- 2 types of hardware groove: EURO 14-18 (A01) PVC (A28)



## Isothermal sectional snapshot:

$$U_f = 3,13 \text{ W}/(\text{m}^2 \cdot \text{K})$$



\* Technical catalog is available for this system

# BKT 65

## WINDOW AND DOOR SYSTEM



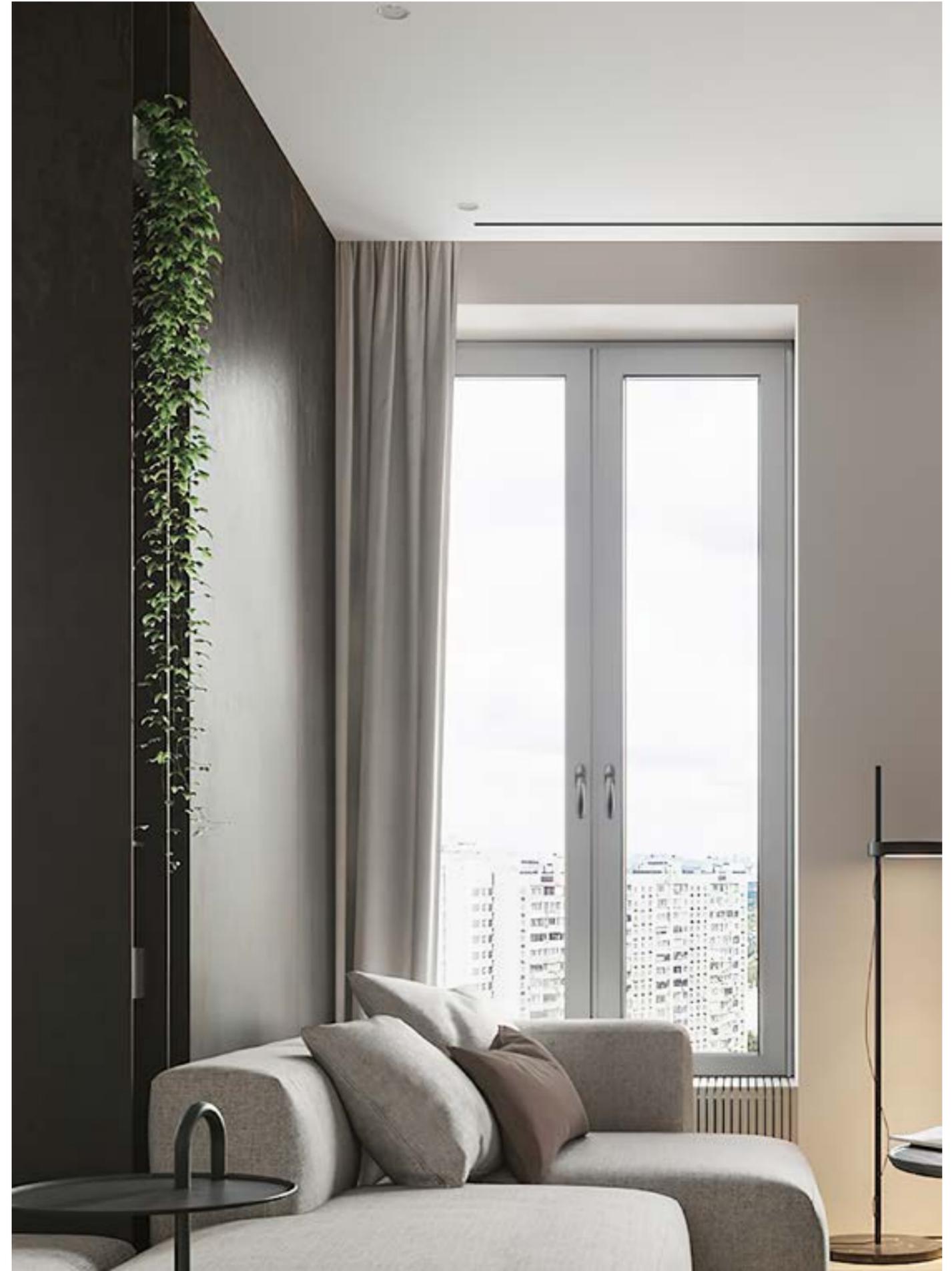
BKT 65 is a new window system. It's an economical solution dictated by the growing popularity of warm aluminum windows. It can be used on residential structures as well as renovation projects.

# BKT 65

## STANDART

Thanks to the latest technology, the BKT 65 window system achieves thermal insulation values that ensure a comfortable microclimate. Not only do you get attractive purchase subsidies, but you also cut your heating and energy costs.

BKT 65 has a smaller visible part of the profile, which gives the product aesthetics and the highest possible transparency. As a result, the interior of your home will transform and sparkle with different colors.



# BKT 65

BKT 65 window and door system has a basic dimension of 64 mm for the frame and 72 mm for the casement.

The aluminum system BKT 65 makes it possible to combine a combination of profiles depending on the architecture of the building and solve any design problem.

The BKT 65 system has a modern look that significantly improves the aesthetics of windows and doors

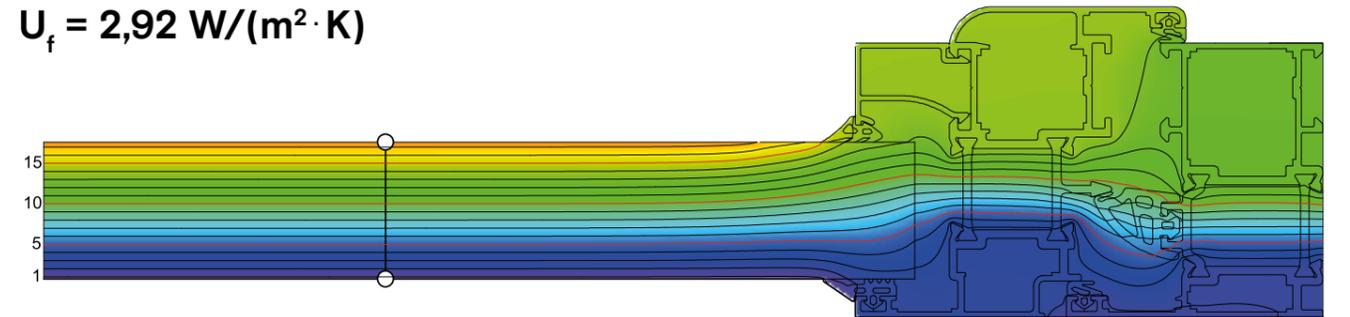


## Technical specifications:

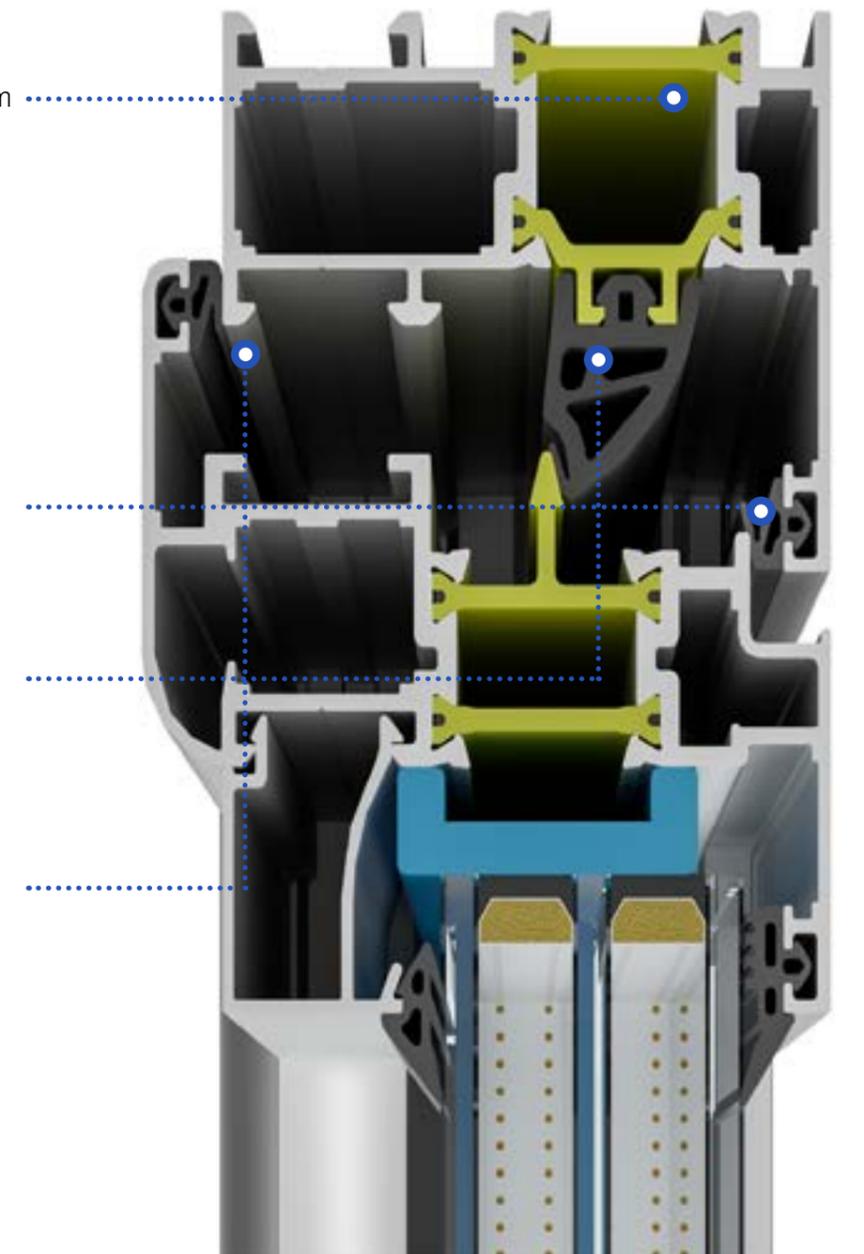
Mounting depth of the window frame:	64 mm
Width of the casement:	72 mm
Width of visible part of the casement:	67,4-102,6 mm
Width of thermal bridge of the windows:	24 mm
Width of thermal bridge of the doors:	24 mm
Minimum filling thickness:	6 mm
Maximum filling thickness:	32 mm

## Isothermal sectional snapshot:

$$U_f = 2,92 \text{ W}/(\text{m}^2 \cdot \text{K})$$



- Thermal bridge width - 24 mm
- Additional sealing contour on the glazing bead
- Additional external insulation contour
- Central sealant
- 2 types of hardware groove: EURO 14-18 (A01) PVC (A28)

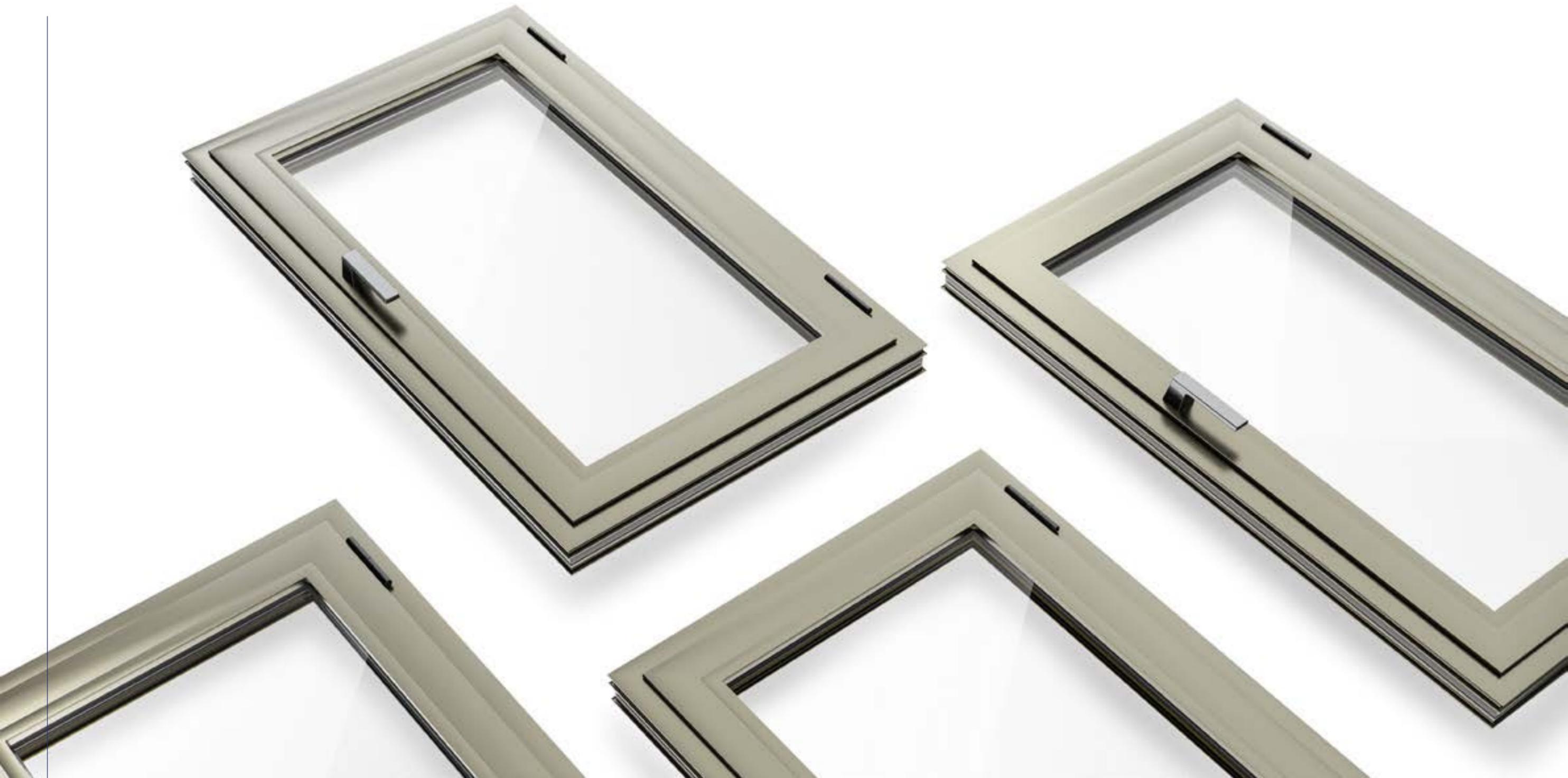


\* Technical catalog is available for this system

# BKT 67

## WINDOW AND DOOR SYSTEM

BKT 67 windows and doors are distinguished not only by their efficient functionality, but also by their ease of use and aesthetics. Discover a wide selection of fittings and handles and get inspired by a wide variety of colors



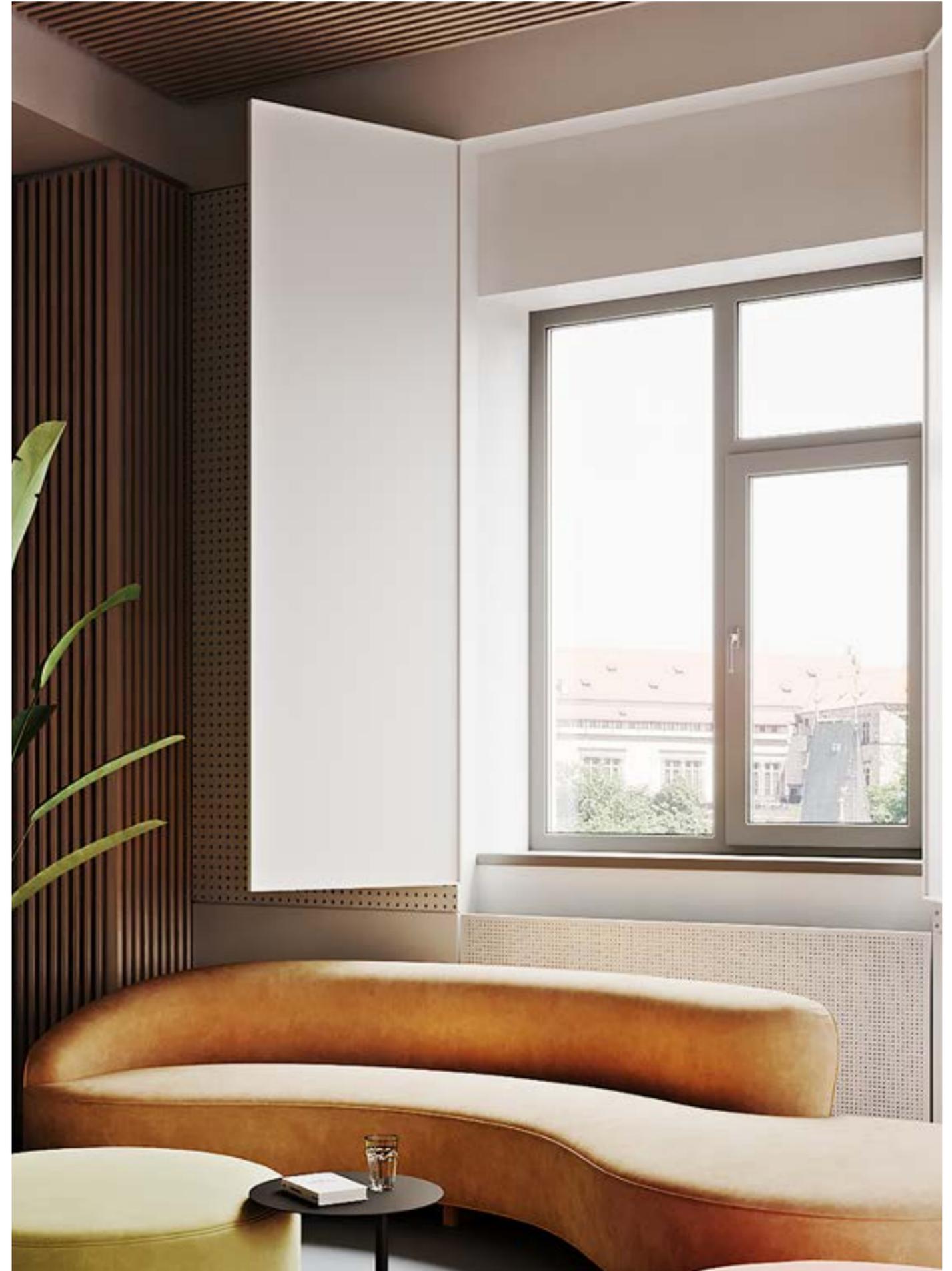


# BKT 67

## STANDART

BKT 67 is a warm window and door series, in which high characteristics of high-lift profiles are combined with their low specific gravity, and the energy efficiency of the system is achieved due to a polyamide thermal bridge, complex thermal solutions and a wide range of filling.

BKT 67 windows and doors create special conditions in the premise and transform the daily living environment into a zone of comfort and coziness.

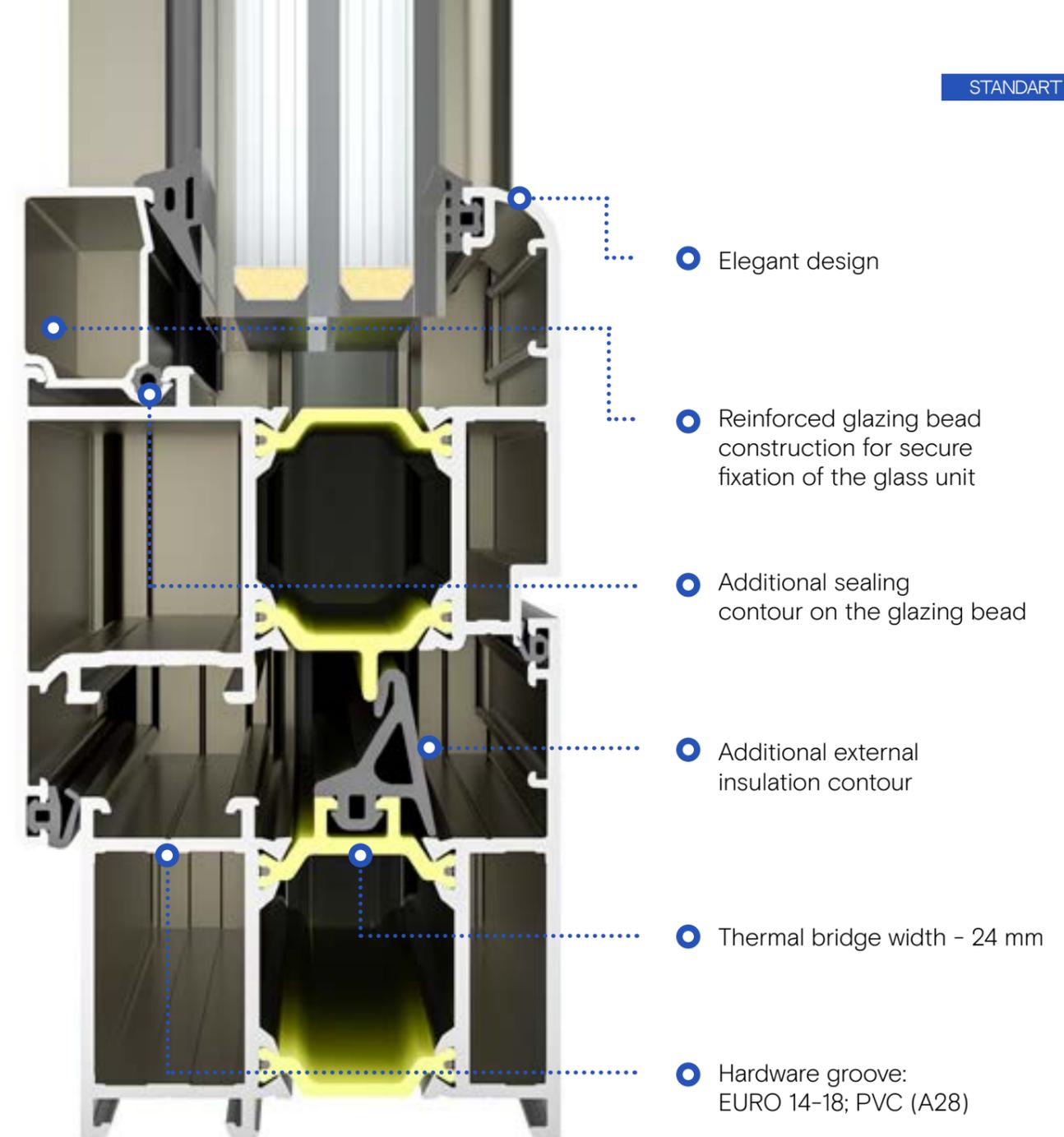


# BKT 67

The BKT 67 window door system has a basic dimension of 59 mm for the frame and 67 mm for the casement.

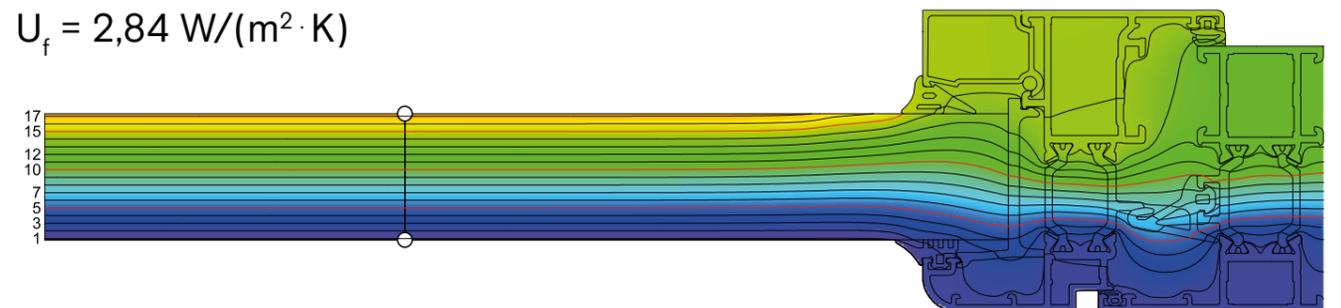
## Technical specifications:

Mounting depth of the window frame:	59 mm
Width of the casement:	67 mm
Width of visible part of the casement:	67-97 mm
Width of thermal bridge of the windows:	24 mm
Width of thermal bridge of the doors:	18 mm
Minimum filling thickness:	16 mm
Maximum filling thickness:	42 mm



## Isothermal sectional snapshot:

$$U_f = 2,84 \text{ W}/(\text{m}^2 \cdot \text{K})$$



*Thanks to special sealants, heat losses are significantly reduced and drafts are prevented.*

\* Technical catalog is available for this system

# BKT 70

## WINDOW AND DOOR SYSTEM

Thanks to the aluminum profile, the model has an amazing safety factor and becomes an indispensable detail in architectural projects created according to the principles of modern urbanism. A special coating technology makes it possible to preserve the original external appearance and color for a long time, regardless of weather elements and sun rays.

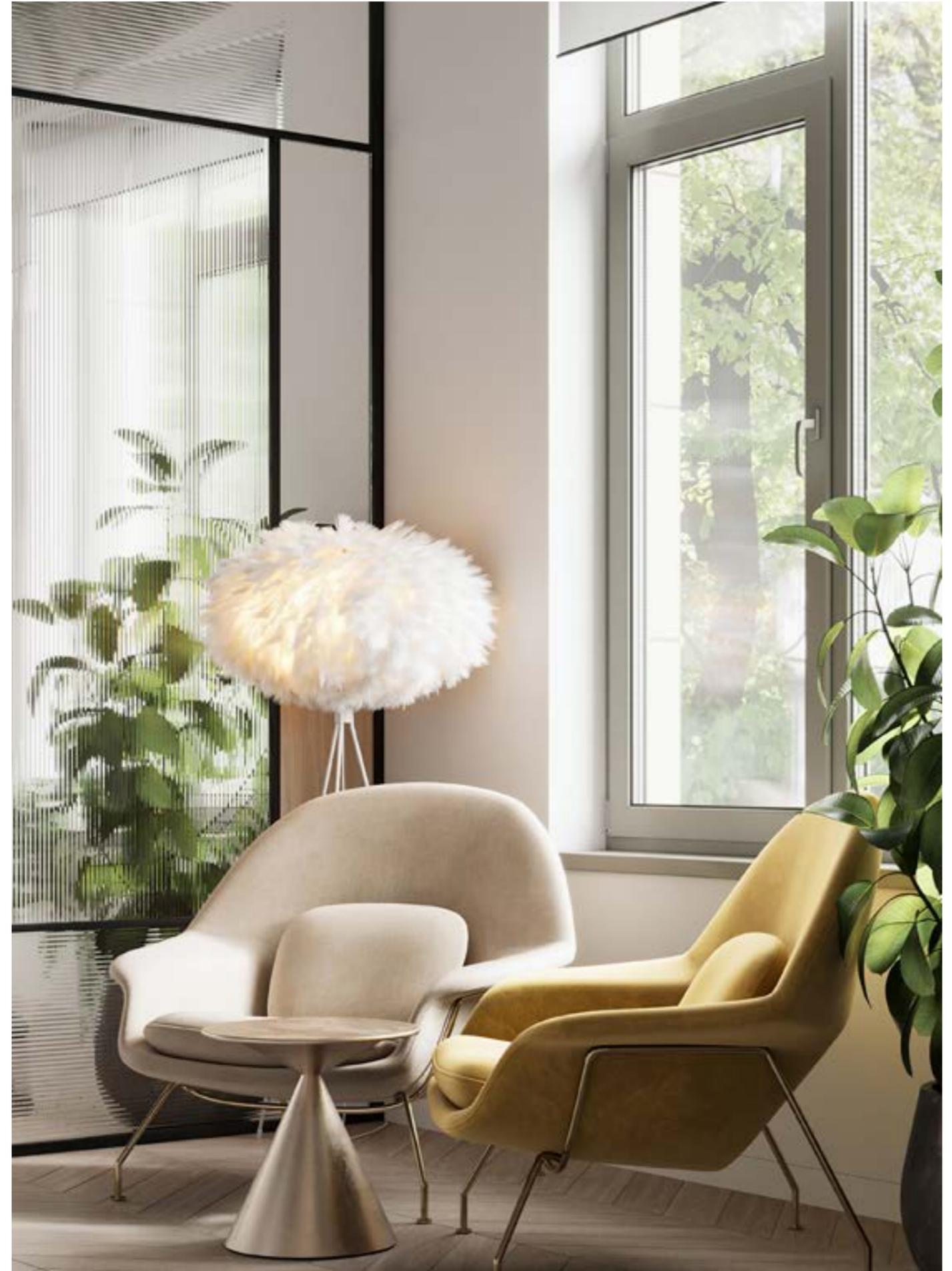


# BKT 70

## STANDART

BKT 70 system is a window and door series for architectural exterior and interior design for various types of windows, doors and other spatial structures. The high-quality characteristics of the high-lift profiles in the BKT 70 system are combined with their low specific weight. The usability of the system is achieved due to complex thermophysical solutions and a wide range of fillings.

Combining profiles make it possible to produce structures with good static indicators.



# BKT 70

BKT 70 window and door system has a basic dimension of 70 mm for the frame and 75,5 mm for the casement.

The elegant, rationalist style is designed on a combination of materials. The combination of glass, textured lamination and metal handle creates visual contrast, refreshing the minimalist design.

Universal solution for those for those looking for modest elegance. Designed, assembled from the brutal materials defending the body against environmental influences and penetration. проникновения.

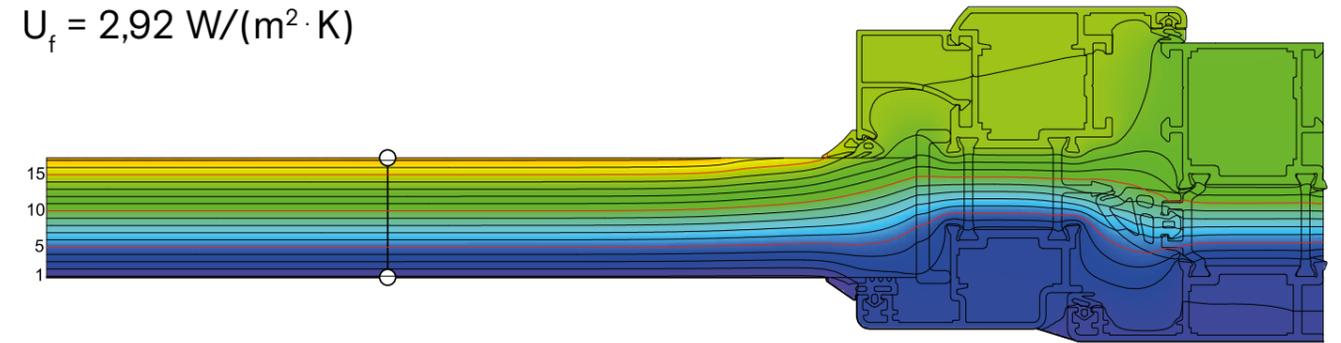


## Technical specifications:

Mounting depth of the window frame:	70 mm
Width of the casement:	75,5 mm
Width of visible part of the casement:	67-112 mm
Width of thermal bridge of the windows:	24 mm
Width of thermal bridge of the doors:	24 mm
Minimum filling thickness:	10 mm
Maximum filling thickness:	50 mm

## Isothermal sectional snapshot:

$$U_f = 2,92 \text{ W}/(\text{m}^2 \cdot \text{K})$$



- Three isolation contours:

*External*

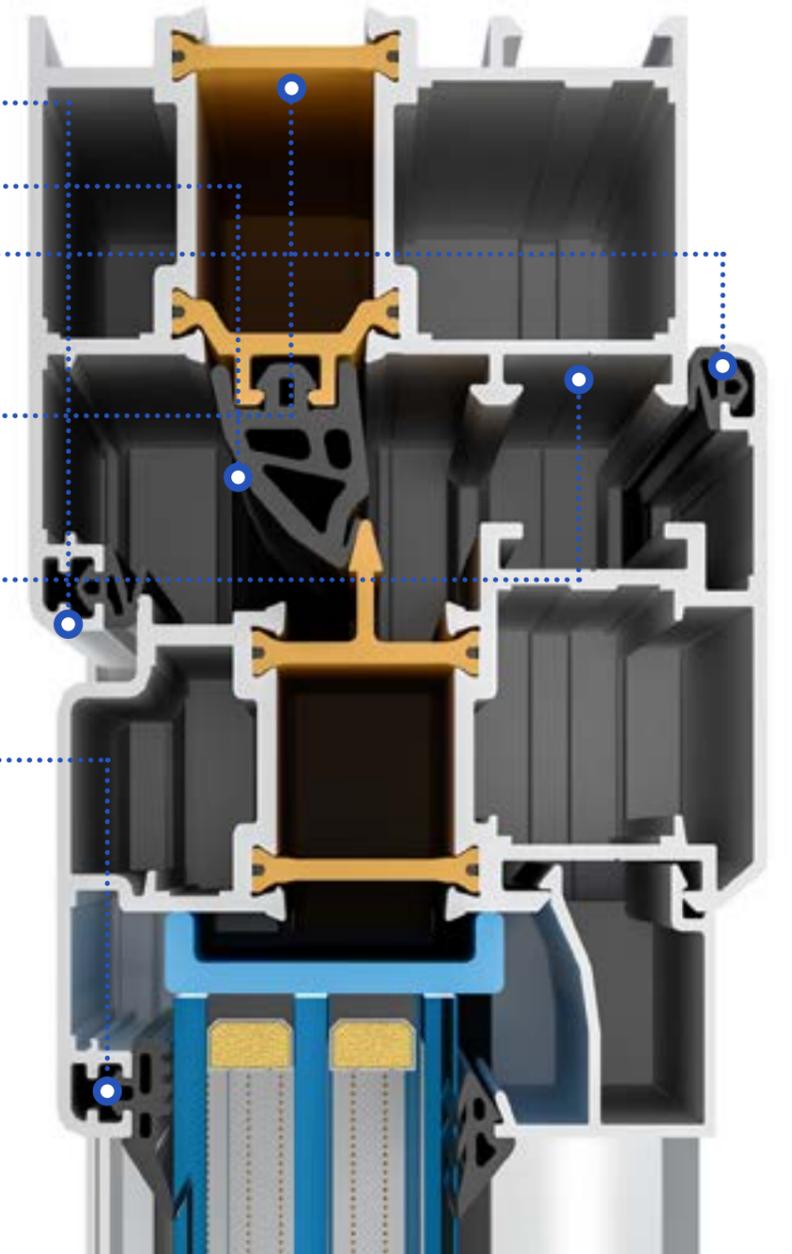
*Central*

*Internal*

- Thermal bridge width - 24 mm

- Hardware groove: EURO 14-18

- Elegant design of the casements outside and inside



\* Technical catalog is available for this system

# BKT 77

WINDOW AND  
DOOR SYSTEM



# BKT 77

## PREMIUM

There is no need to seek a compromise solution when insulating your home. Schüco windows guarantee the highest level of energy efficiency. Thus, you can significantly reduce the cost of heating. In addition, you can save costs due to the efficient ventilation. There are suitable solutions in the products assortment.

Combining profiles make it possible to produce structures with good static indicators.



# BKT 77



BKT 77 window door system has a basic dimension of 69 mm for the frame and 77 mm for the casement.

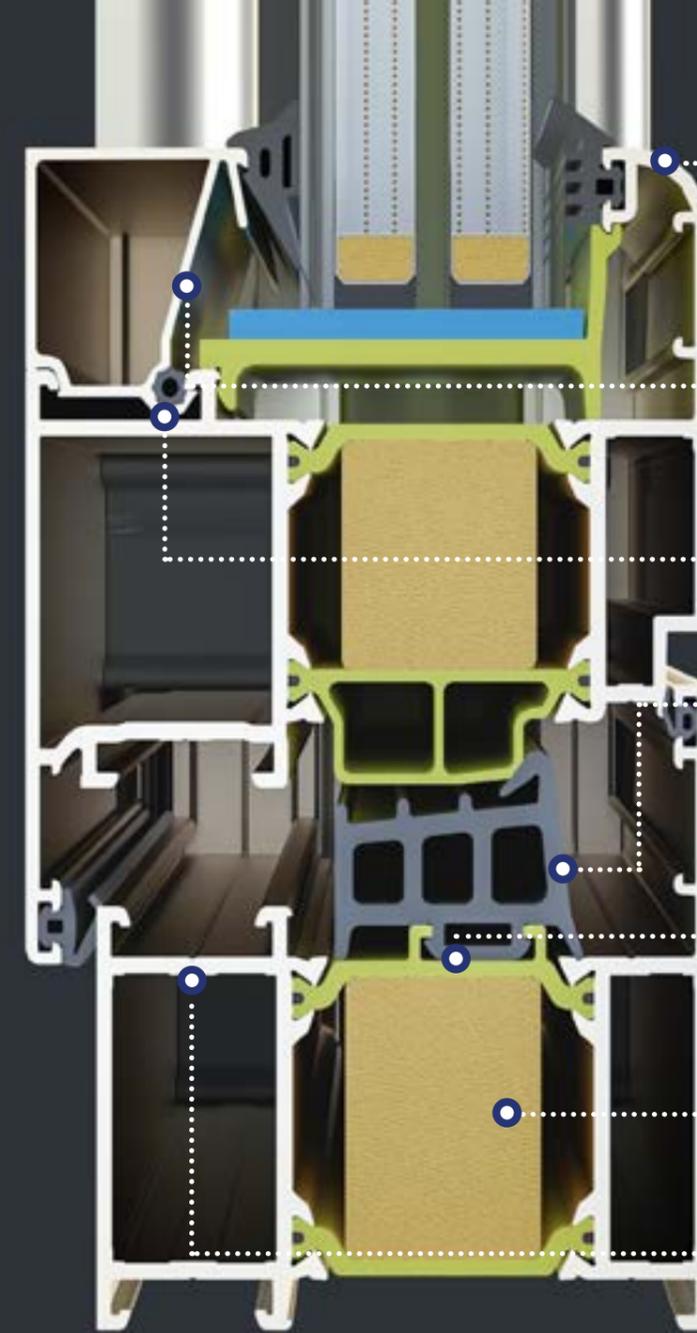


## Technical specifications:

Mounting depth of the window frame:	69 mm
Width of visible part of the casement:	67-97 mm
Width of the casement:	77 mm
Width of thermal bridge of the windows:	34 mm
Width of thermal bridge of the doors:	28 mm
Minimum filling thickness:	24 mm
Maximum filling thickness:	52 mm

Elegant style is designed based on a combination of materials. The combination of glass, textured lamination and metal handles create visual contrast, refreshing the minimalist design.

Combined with the superior material properties of aluminum, one can implement many design options and make contribution to sustainable construction.

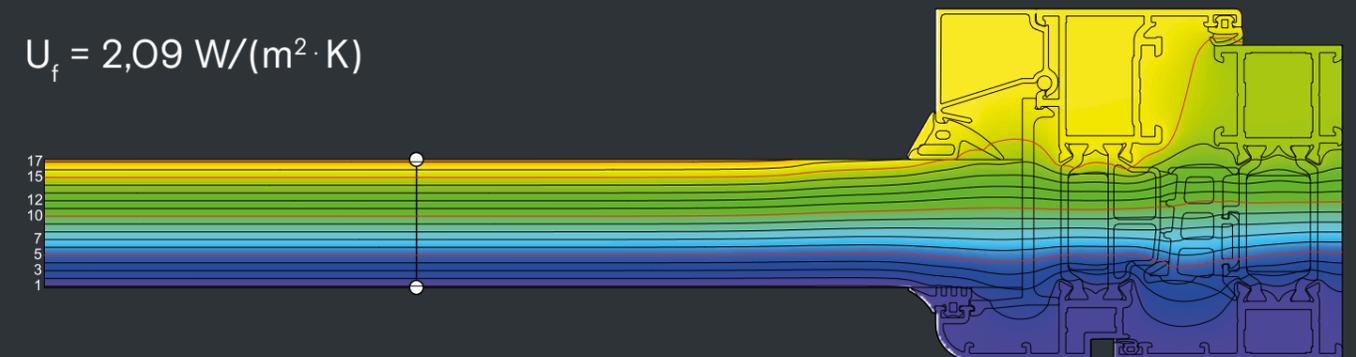


- Elegant design
- Reinforced glazing bead construction for secure fixation of the glass unit
- Additional sealing contour on the glazing bead
- Additional central two-component rubber insulation contour
- Thermal bridge width - 34 mm
- Foamed polystyrene
- Hardware groove: EURO 14-18

ALUMINUM THERMO WINDOW

Isothermal sectional snapshot:

$$U_f = 2,09 \text{ W}/(\text{m}^2 \cdot \text{K})$$



\* Technical catalog is available for this system

# BKT 78

WINDOW AND  
DOOR SYSTEM



# BKT 78

PREMIUM



BKT 78 system with elegant external appearance and rounded window profiles stylishly fits in with both modern and traditional architecture. Displacement between the frame and the casement creates a classic external appearance of the window

BKT 78 provides a particularly narrow facade width compared to other aluminum windows. The system provides aesthetic design and the highest possible transparency and, thus, enhances the external appearance of your entire home.



# BKT 78

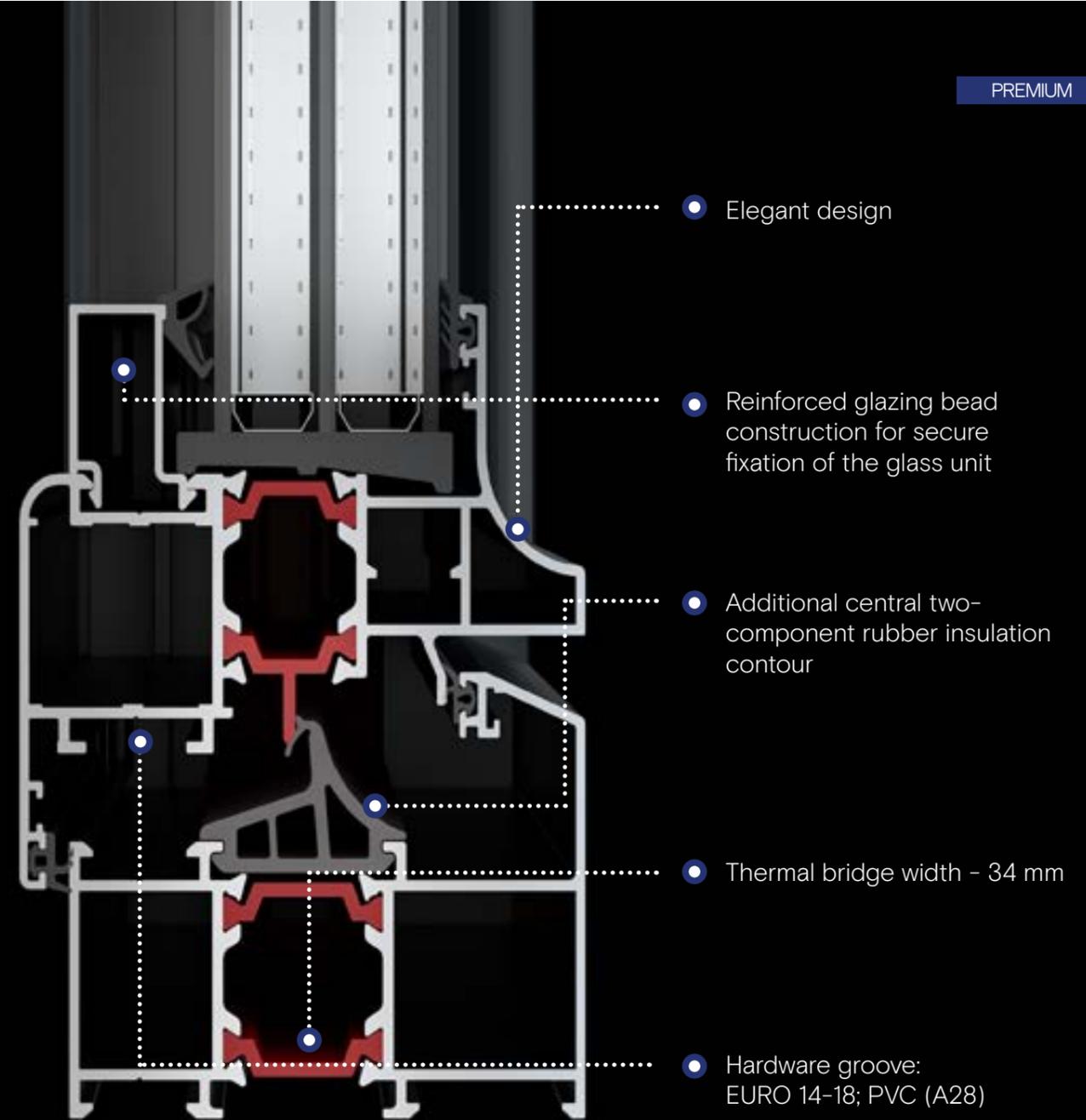
BKT 78 window door system has a basic dimension of 77 mm for the frame and 85 mm for the casement.

## Technical specifications:

Mounting depth of the window frame:	77 mm
Width of visible part of the casement:	76-106 mm
Width of the casement:	85 mm
Width of thermal bridge of the windows:	20 mm
Width of thermal bridge of the doors:	20 mm
Minimum filling thickness:	20 mm
Maximum filling thickness:	36 mm

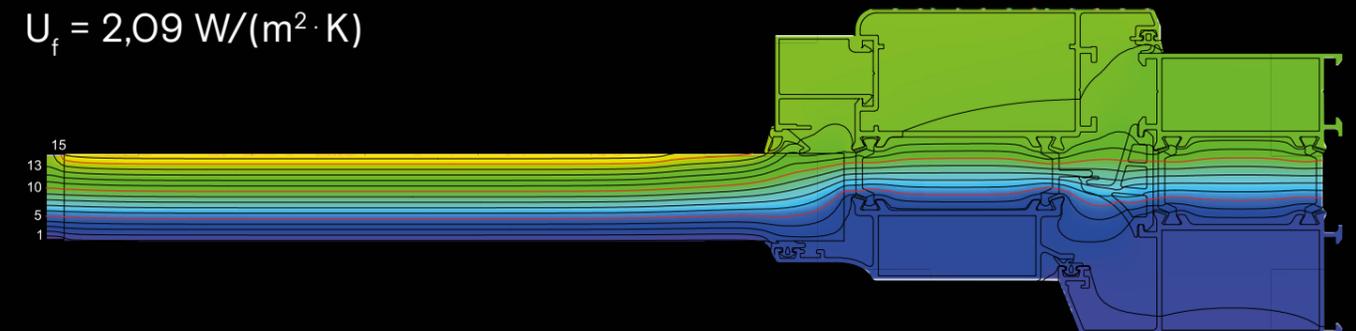
A massive "warm" two-chamber profile makes it possible to mount a triple glass unit with improved thermal insulation characteristics. In addition, it has a positive effect on the sound insulation of the window - the noise from the street is significantly reduced

We can offer you profiles in almost any color you can imagine. More than 450 different shades and coverings are available.



Isothermal sectional snapshot:

$$U_f = 2,09 \text{ W}/(\text{m}^2 \cdot \text{K})$$



\* Technical catalog is available for this system

# BKT 98

## WINDOW SYSTEM

The BKT 98 system has an exceptional energy efficiency rating according to the "Passive House" standard. This is achieved through the use of additional inserts of foamed polyethylene, an increased thermal bridge with a width of 54 mm, as well as innovative two-component sealants.

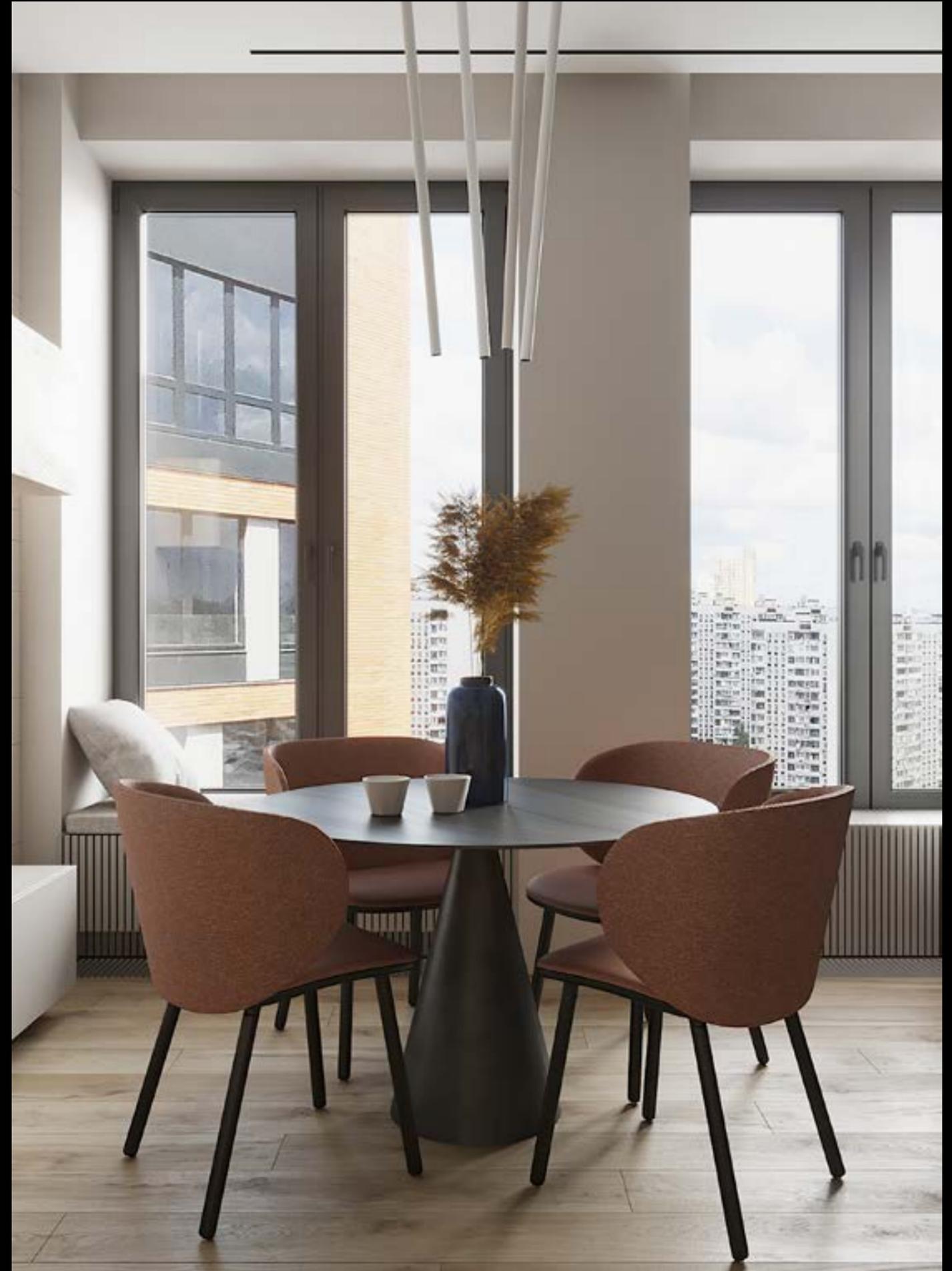


# BKT 98

## PREMIUM

BKT 98 is a warm window series. The energy efficiency of the system is achieved due to glass fiber reinforced polyamide thermal bridges, polyethylene foam inserts, complex thermal solutions and a wide range of fillings. Warm windows made of BKT 98 create special conditions in the premise and transform the daily living environment into a comfortable area. The systems give the maximum freedom to design objects when planning complex window structures.

Thermal bridges in the combined frame and casement profiles with a width of 54 mm are made of polyamide

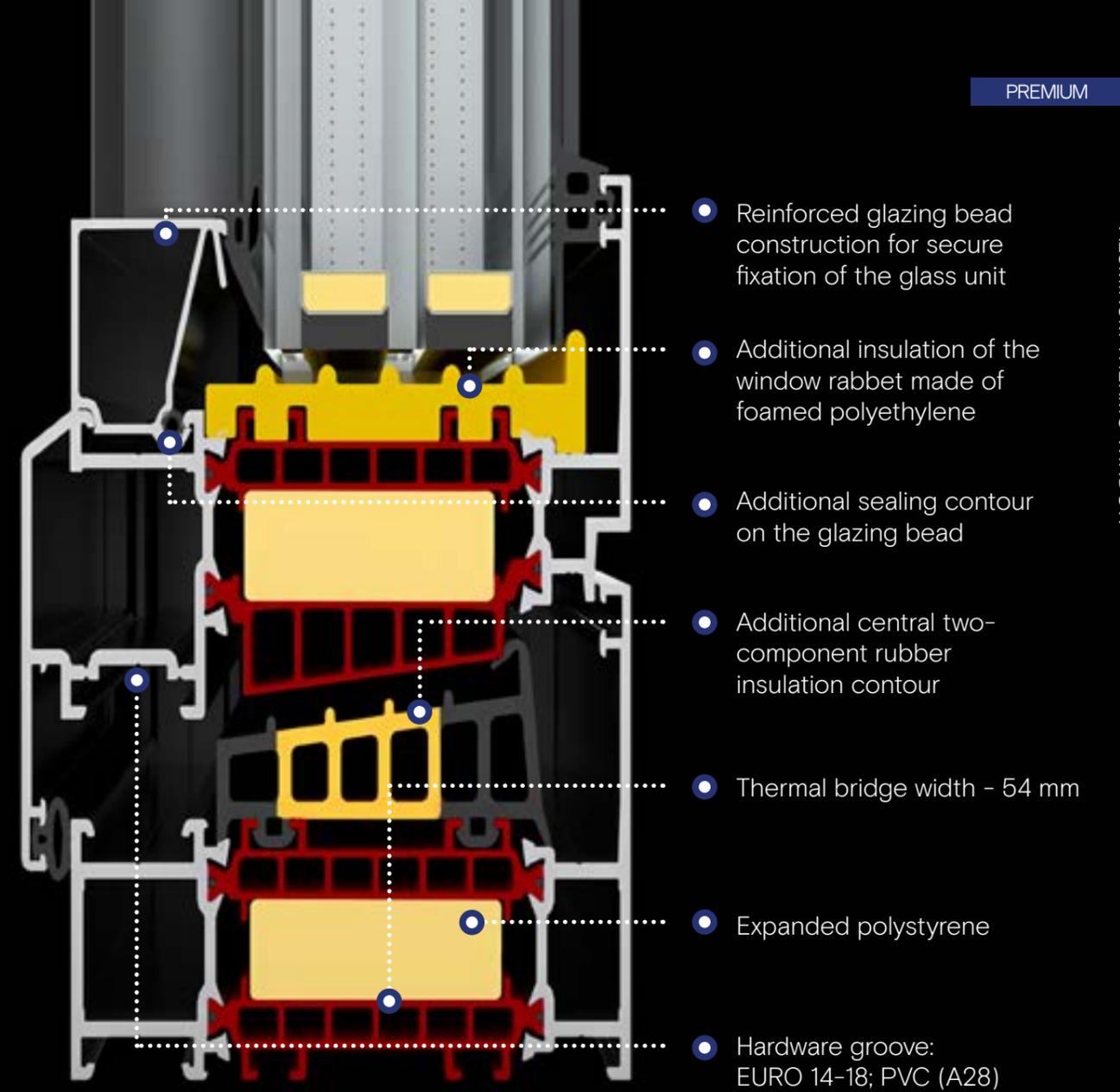


# BKT 98



BKT 98 window system has a basic dimension of 90 mm for the frame and 98 mm for the casement

Installation of a three-chamber double-glazed window is possible. This is the thickest and most massive glass structure with the best energy-saving and noise-insulating characteristics.



## Технические характеристики:

Mounting depth of the window frame:	90 mm
Width of the casement:	98 mm
Width of visible part of the casement:	80-114 mm
Width of thermal bridge of the windows:	54 mm
Minimum filling thickness:	28 mm
Maximum filling thickness:	66 mm

\* Technical catalog is available for this system

## COMPARISON OF SYSTEMS

**BKT 57**

**ECONOM**



Casement width:	60-92 mm
Width of thermal bridge of the windows:	17 mm
Nominal value of heat loss:	3,28 W/(m <sup>2</sup> /°K)

**BKT 65**

**STANDART**



Casement width:	72 mm
Width of thermal bridge of the windows:	24 mm
Nominal value of heat loss:	2,92 W/(m <sup>2</sup> /°K)

**BKT 67**

**STANDART**



Casement width:	67 mm
Width of thermal bridge of the windows:	18; 24 mm
Nominal value of heat loss:	2,84 W/(m <sup>2</sup> /°K)

**BKT 70**

**STANDART**



Casement width:	75,5 mm
Width of thermal bridge of the windows:	24; 67-97 mm
Nominal value of heat loss:	2,92W/(m <sup>2</sup> /°K)

**BKT 77**

**PREMIUM**



Casement width:	77 mm
Width of thermal bridge of the windows:	34 mm
Nominal value of heat loss:	2,09 W/(m <sup>2</sup> /°K)

**BKT 78**

**PREMIUM**



Casement width:	77 mm
Width of thermal bridge of the windows:	20 mm
Nominal value of heat loss:	2,09 W/(m <sup>2</sup> /°K)

**BKT 98**

**PREMIUM**



Casement width:	80-114 mm
Width of thermal bridge of the windows:	54 mm
Nominal value of heat loss:	1,44 W/(m <sup>2</sup> /°K)

### ISOTHERMAL SNAPSHOTS:

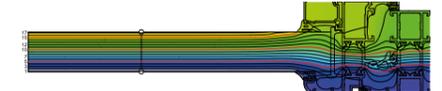
BKT 57  $U_i = 3,13 \text{ W/(m}^2 \cdot \text{K)}$



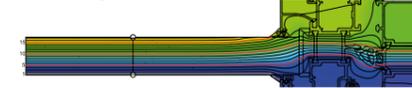
BKT 65  $U_i = 2,92 \text{ W/(m}^2 \cdot \text{K)}$



BKT 67  $U_i = 2,84 \text{ W/(m}^2 \cdot \text{K)}$



BKT 70  $U_i = 2,92 \text{ W/(m}^2 \cdot \text{K)}$



BKT 77  $U_i = 2,09 \text{ W/(m}^2 \cdot \text{K)}$

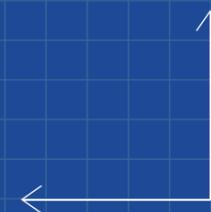


BKT 78  $U_i = 2,09 \text{ W/(m}^2 \cdot \text{K)}$



# DOOR SYSTEMS

More space is available thanks to door systems. Sunlight gives vitality to a person and creates comfort in the house. This effect can be perfectly used in combination with sliding and folding aluminum sliding doors.



# RESIDENCE

## DOOR SYSTEM

Optimum ratio of thickness and strength of steel sheet. Perfect fit of the canvas around the entire perimeter without cracks and distortions, precise adjustment of the hinges as well as the use of polyurethane foam as insulation provides high heat and sound insulation. Residence doors are manufactured according to Italian technologies, adapted to the needs of the Uzbek consumer.

# RESIDENCE

## PREMIUM

Residence door system has a basic dimension of 81 mm for the frame and 81 mm for the casement.

The system is based on combined profiles consisting of two aluminum profiles interconnected by means of two thermal inserts made of fiberglass-reinforced polyamide. The profiles are designed taking into account the possibility of mounting hidden hinges, door closers and locks with a multi-point locking mechanism from the world's leading manufacturers.

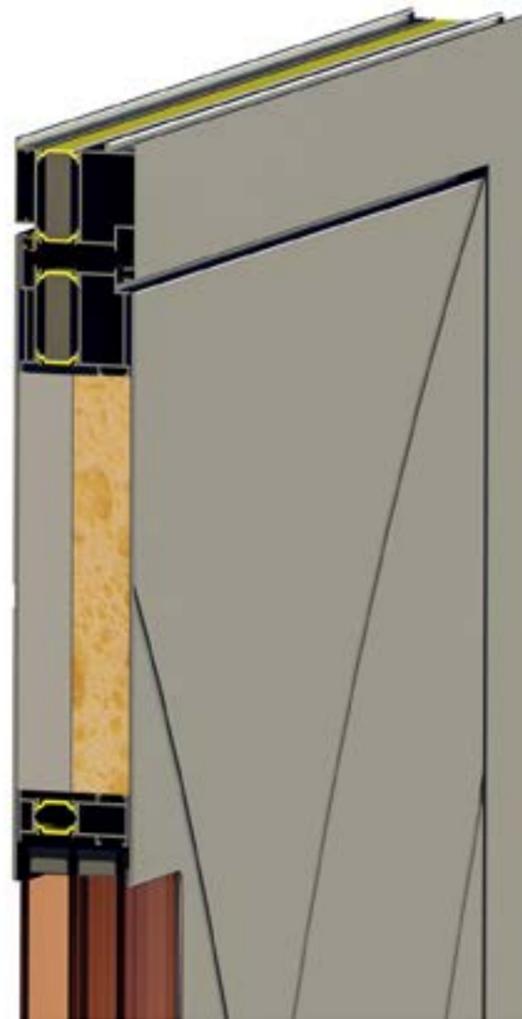
A special feature of the system is that a 3,0 mm thick aluminum sheet is glued to the casement, which can be painted, treated and decorated at the request of the client.

Due to the use of special two-component glue, the sheet is firmly and reliably glued to the casement frame, which guarantees high resistance from burglars and durability of the product.

### Technical specifications:

Mounting depth of the frame:	<b>81 mm</b>
Width of the casement:	<b>78,6 mm</b>
Thickness of the decorative panel	<b>3,0 mm</b>
Width of thermal bridge:	<b>28 mm</b>
Minimum filling thickness:	<b>41 mm</b>
Maximum filling thickness:	<b>67 mm</b>

\* Technical catalog is available for this system



# MDF 40

## DOOR SYSTEM

The entrance door provides access to the interior of the house, to a place that has a personal space for each family member. RESIDENCE entrance doors can be used to create individual accents in your house.



# MDF 40

## STANDART

MDF is a very firm material and various additives are used in its production. Due to this, it is very resistant to fire. This ensures fire safety, which is very important when using wood products.

MDF is a very firm material and various additives are used in its production. Due to this, it is very resistant to fire. This ensures fire safety, which is very important when using wood products.



### Technical specifications:

Thickness of MDF panel:	8 mm
Nominal mounting depth of the frame:	149 mm (for wall 128-130 mm)
Maximum casement weight:	60 kg
Maximum size:	2 400 x 900 mm

\* Technical catalog is available for this system

# INVISIBLE

## DOOR SYSTEM

Дверь INVISIBLE располагается в одной плоскости со стеной, что позволяет производить отделку стен и полотна в одном стиле. Дверное полотно имеет многослойное покрытие готовое к финишной отделке в любом стиле с использованием декоративной штукатурки, обоев или эмали.



# INVISIBLE

## STANDART

An “invisible” interior door with a hidden frame box of the Invisible opening system is mounted flush with the wall to be painted with a texture or color similar to the door. INVISIBLE door opening systems are an opportunity to mount an “invisible” door with a hidden frame box.

Constructive solution and design appearance makes it possible to mount the door leaf in the opening flush with the wall plane. At the same time, the frame box is not decorated with platbands, which allows creating the effect of an invisible door. The basic feature of this design is that the color and texture of the wall and door leaf are made in the same style, texture and color scheme.

Hidden doors are available for direct and reverse opening.



## Technical specifications:

Thickness of MDF panel:	8,1 mm
Nominal mounting depth of the frame:	136,1 mm (for wall 128–130 mm)
Maximum casement weight:	40 kg (for 2 hinges)
Maximum size	2 290 x 1 000 mm



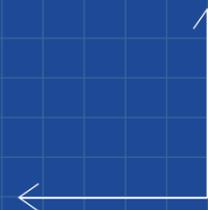
INVISIBLE

180°  
Opening angle

\* Technical catalog is available for this system

# SLIDING SYSTEMS

More space is available thanks to sliding systems. Sunlight gives vitality to a person and creates comfort in the house. This effect can be perfectly used in combination with sliding and folding aluminum sliding doors.



# BKH 38

## SLIDING SYSTEM

Sliding doors create a new space: the conservatory merges with the garden, while the balcony and terrace increase the living space.



# BKH 38

## STANDART

Sliding system BKH 38 is designed for glazing of the following objects: private houses, loggias, terraces and balconies.

Sliding structures have the following advantages:

- they provide maximum illumination
- they visually increase the space;
- they save space due to the absence of open casements.

The system is adapted for the use of sets of fittings from leading European manufacturers, such as: Giese; Master and KinLong.



### Technical specifications:

Mounting depth of the window frame:	<b>102 mm</b> (2 rails)
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Mounting depth of the door frame:	<b>152 mm</b> (3 rails)
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Width of the casement:	<b>38 mm</b>
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Width of visible part of the casement:	<b>77 mm</b>
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Width of thermal bridge:	<b>14 mm</b>
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Minimum filling thickness:	<b>16 mm</b>
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Maximum filling thickness:	<b>28 mm</b>
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In winter, the system protects from cold; in summer the system protects from hot. Sliding doors BKH 38 provide a good level of thermal insulation and create a pleasant indoor climate.

As a result, the cost for heating in winter and air conditioning in summer is reduced, which means rational use of energy

\* Technical catalogis available for this system



# BKH 65

## LIFT & SLIDE SYSTEM

BKH 65 sliding system allows manufacturing large sliding elements with maximum transparency. Delicately shaped profiles and optimal thermal insulation aimed at meeting different requirements are convincing arguments for both architects and builders.

# BKH 65

## PREMIUM

HS-Portal – lift-and-slide systems that allow protecting openings of non-standard size. In the open position, they erase the boundaries between the street and the house. When you turn the handle at 180 degrees, a mechanism starts to move, acting on the principle of a jack. The movable casement is raised by 5–7 mm, and the rollers protruding from it allow free sliding along the rail.

To stop the lift and sliding door at the desired location, the handle must be turned back. The casement goes down, where it is fixedly fixed under its own weight.



### Technical specifications:

Mounting depth of the frame:	148 mm	(2 rails)
Mounting depth of the frame:	232 mm	(3 rails)
Width of the casement:	64 mm	
Width of visible part of the casement:	98 mm	
Width of thermal bridge:	20; 34 mm	
Minimum filling thickness:	20 mm	
Maximum filling thickness:	48 mm	

\* Technical catalog is available for this system

# BKG 40

## FOLDING SYSTEM

In winter, the system protects from cold; in summer the system protects from hot. BKG 40 sliding system provides a good level of thermal insulation and creates a pleasant indoor climate.



# BKG 40

## ECONOM

Sliding aluminum accordion doors, or FS-portals, are used for glazing wide doorways (up to 5m). The casements fold down to the side, leaving the opening completely open.

Such structures are chosen for glazing terraces, swimming pools, winter gardens, restaurants, offices, shopping centers, as well as internal partitions of concert halls, cinema halls and more. When choosing FS-portal, one should take into account the technical limitations connected with the features and capabilities of the fittings: the number of leaves (casements) in the system is from 2 to 6, the leaf width is from 480 to 800 mm, the leaf height is up to 2400 mm, the opening width is up to 5 m.



### Technical specifications:

Width of the casement:	40 mm
Width of visible part of the casement:	75 mm
Minimum filling thickness:	4 mm
Maximum filling thickness:	20 mm
Maximum dimensions of the casements:	80x240 cm
Maximum weight of the casements:	60 kg

\* Technical catalog is available for this system

# BKG 50

## FOLDING SYSTEM

BKG 50 sliding system is most suitable for mounting on terraces, balconies, in country houses and cottages, as well as for open street areas of cafes and restaurants. All structural elements move smoothly in different directions, leaving the opening completely open.



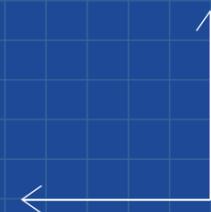
# PERGOLA SYSTEMS

A modern outdoor dining area featuring a pergola system with a white fabric canopy and dark metal frame. The deck is made of dark wood and is furnished with white tables and blue chairs. A swimming pool is visible on the right side of the deck. The background shows a lush green landscape with trees and a clear sky.

Metal pergolas are difficult to manufacture. Due to the considerable weight, they need a reliable base (foundation). Metal structures made by a craftsman without experience do not differ in the grace that is inherent in forged products or the naturalness inherent in wooden pergolas.

# FACADE SYSTEMS

In order to create transparent architectural solutions, not only large-format glazing is required. Only in combination with minimalist profile systems does the solution acquire a flawless and modern character.



# BKF 48

## FACADE SYSTEM

Along with the excellent architectural characteristics of the system, special attention has been paid to the simplicity and economy of manufacture and mounting. New ready-made system components significantly speed up the assembly process in the factory.



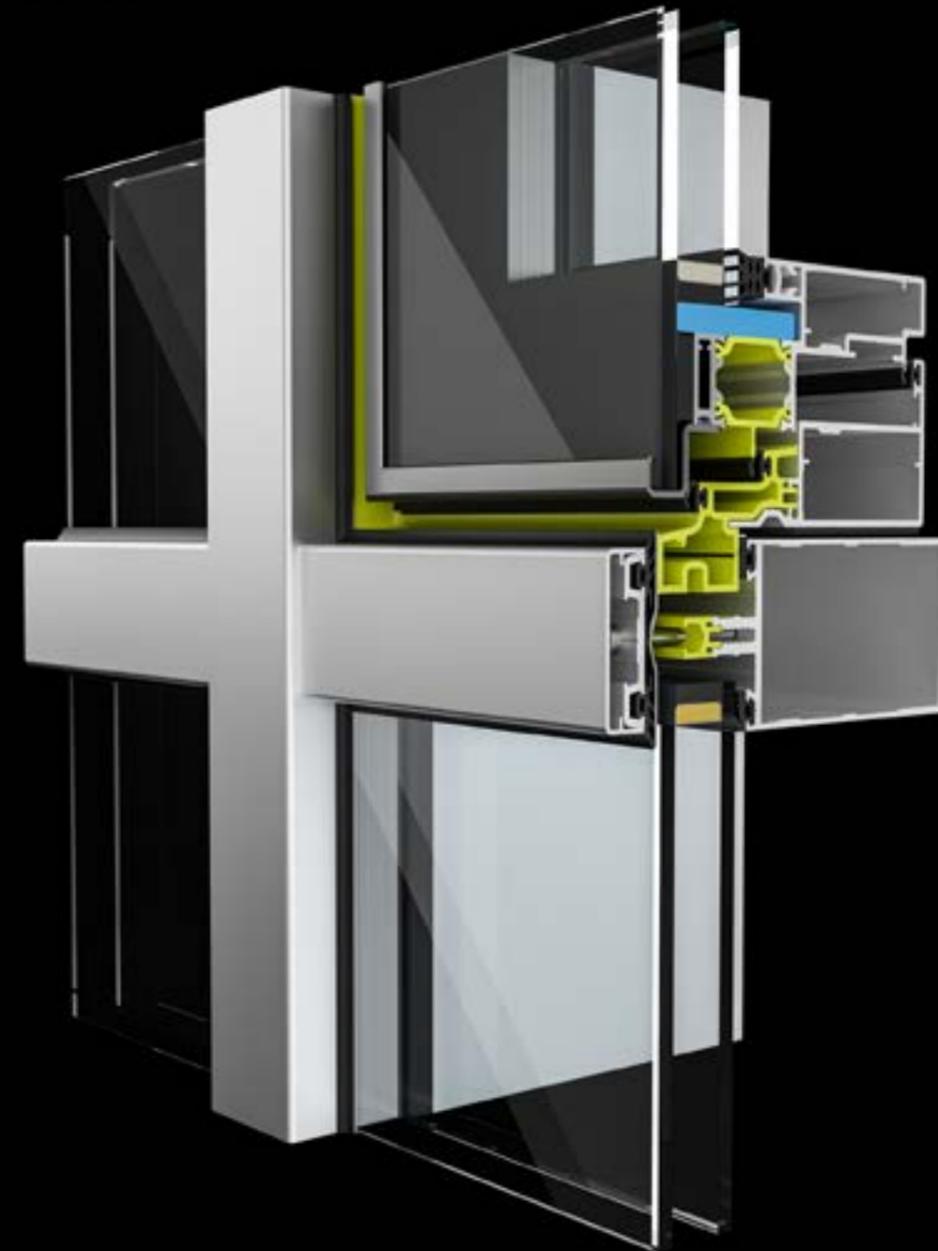
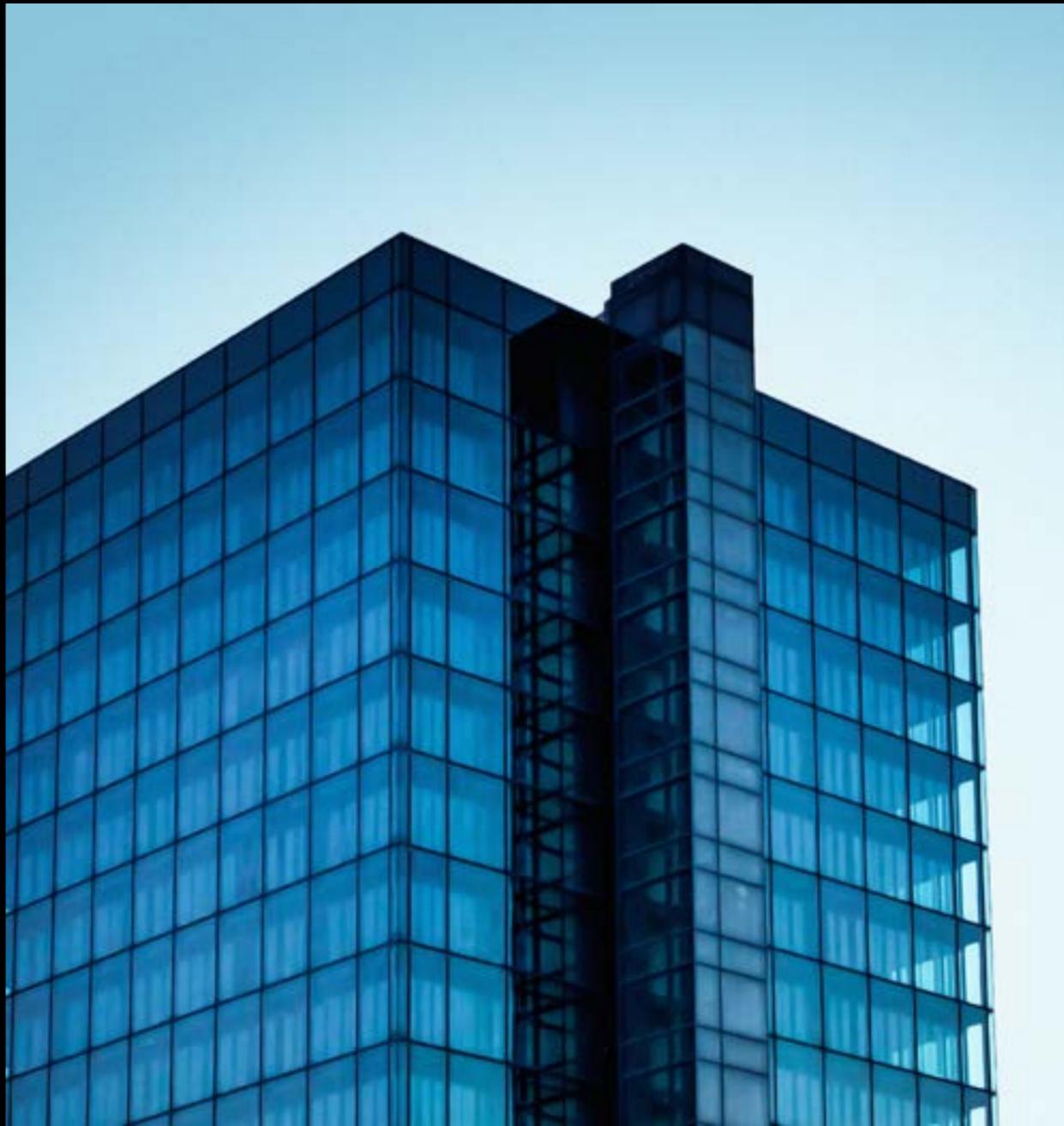
# BKF 48

## STANDART

BKF 48 system is intended for vertical glazing of external stained-glass windows and building facades, with various external and internal angles of rotation, balconies, loggias, as well as internal partitions, vestibules and other vertical structures of small architectural forms.

Studs and trimmer beams - Profiles from the same row and can be interchangeable.

Aluminum profiles of studs and trimmer beams are optimized for minimum weight and maximum moments of inertia taking into account the possibilities of modern pressing technologies.



up to 70 m

### Технические характеристики:

Width of studs and trimmer beams:	48 mm
Minimum size of studs and trimmer beams:	53 mm
Maximum size of studs and trimmer beams:	153 mm
Minimum filling thickness:	6 mm
Maximum filling thickness:	38 mm
Maximum filling weight:	120 kg

\* Technical catalog is available for this system

# BKF 50

## FACADE SYSTEMS

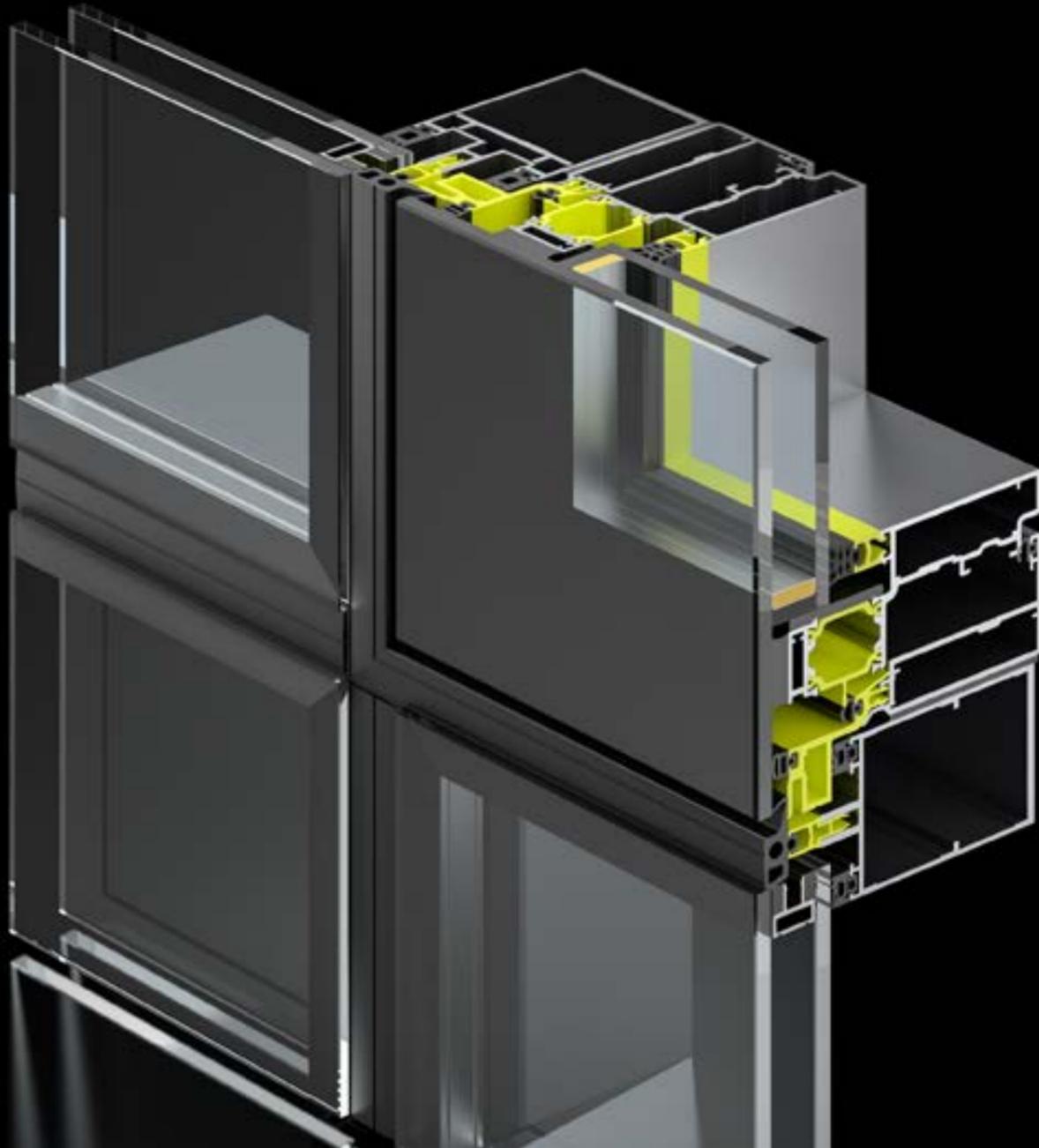
It serves for structural and post-transom glazing of building facades. Due to the minimal protrusion of elements on the plane of the glass, it turns any facade into a light-air plane that erases the boundaries between the internal and external space, and provides an optimal level of illumination of the room.

# BKF 50

## STANDART

BKF 50 system is designed for vertical glazing of external stained-glass windows and building facades, with various external and internal angles of rotation, balconies, loggias, as well as internal partitions, vestibules and other vertical structures of small architectural forms.

Endowed with a high load-bearing capacity, BKF 50 series allows designing facades with the possibility of mounting large-sized glass units, as well as to form refracted structures in the plan and create external and internal corners.



# BKF 50

Quick and easy mounting due to the use of mounting buttons.

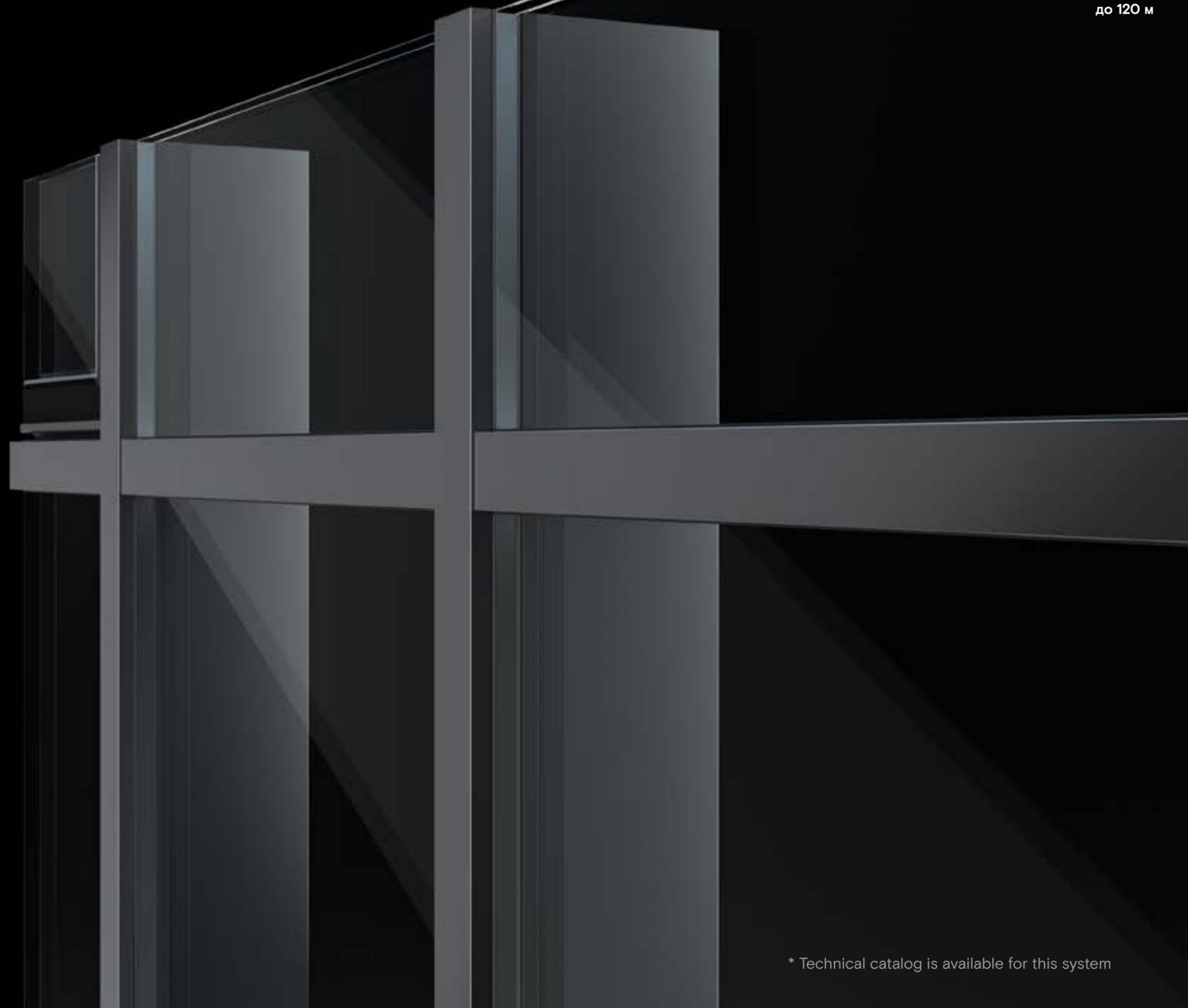
## Technical specifications:

Width of studs and trimmer beams:	50 mm
Minimum size of studs:	66 mm
Maximum size of studs:	220 mm
Minimum size of trimmer beams:	25 mm
Maximum size of trimmer beams:	185 mm
Minimum filling thickness:	4 mm
Maximum filling thickness:	62 mm
Maximum filling weight:	560 кг

BKF 50 possesses a high tightness of assemblies due to the unique structure of the sealants, as well as it has high load-bearing characteristics with a minimum weight of the profiles.



до 120 м

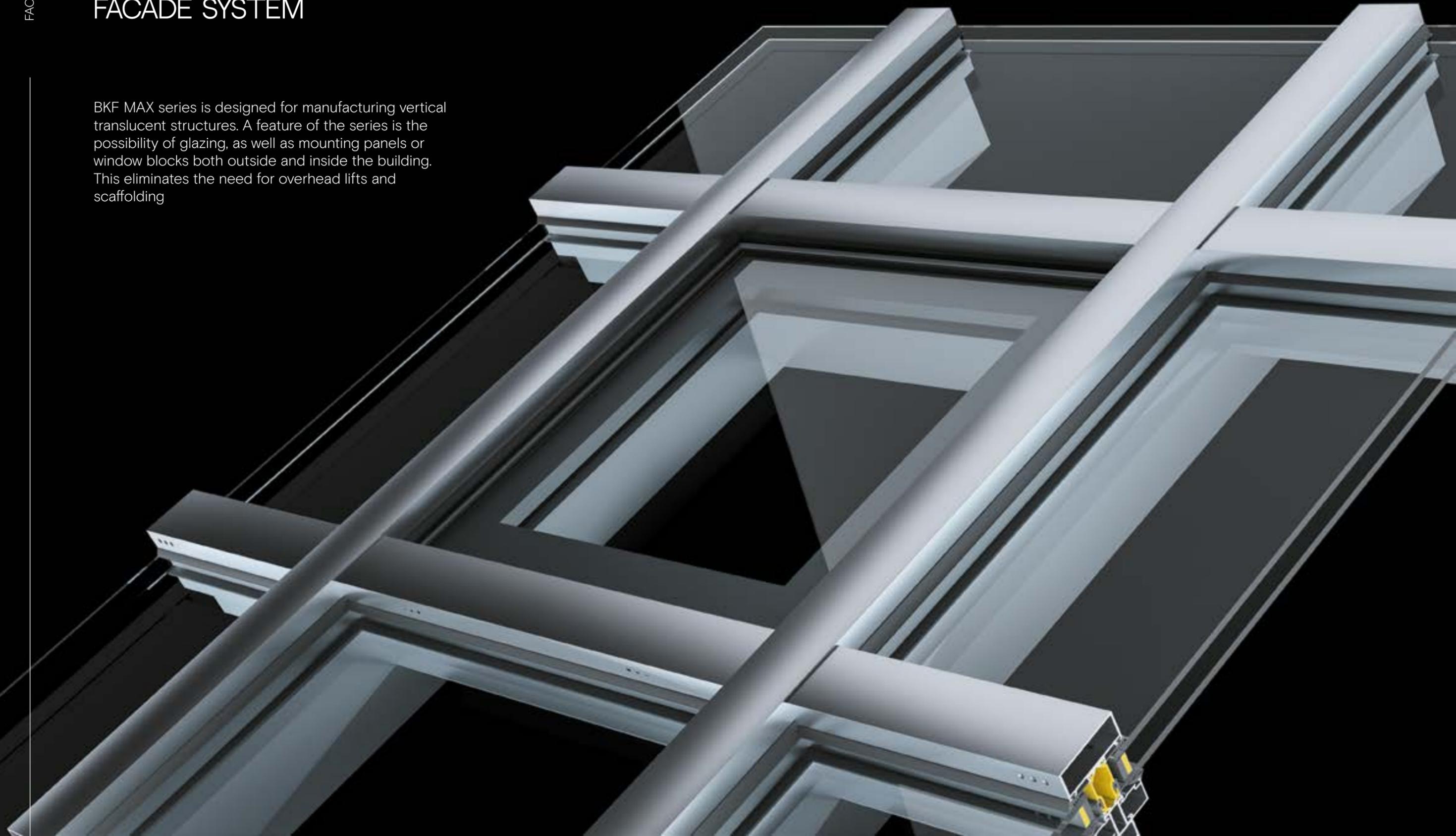


\* Technical catalog is available for this system

# BKF MAX

## FACADE SYSTEM

BKF MAX series is designed for manufacturing vertical translucent structures. A feature of the series is the possibility of glazing, as well as mounting panels or window blocks both outside and inside the building. This eliminates the need for overhead lifts and scaffolding

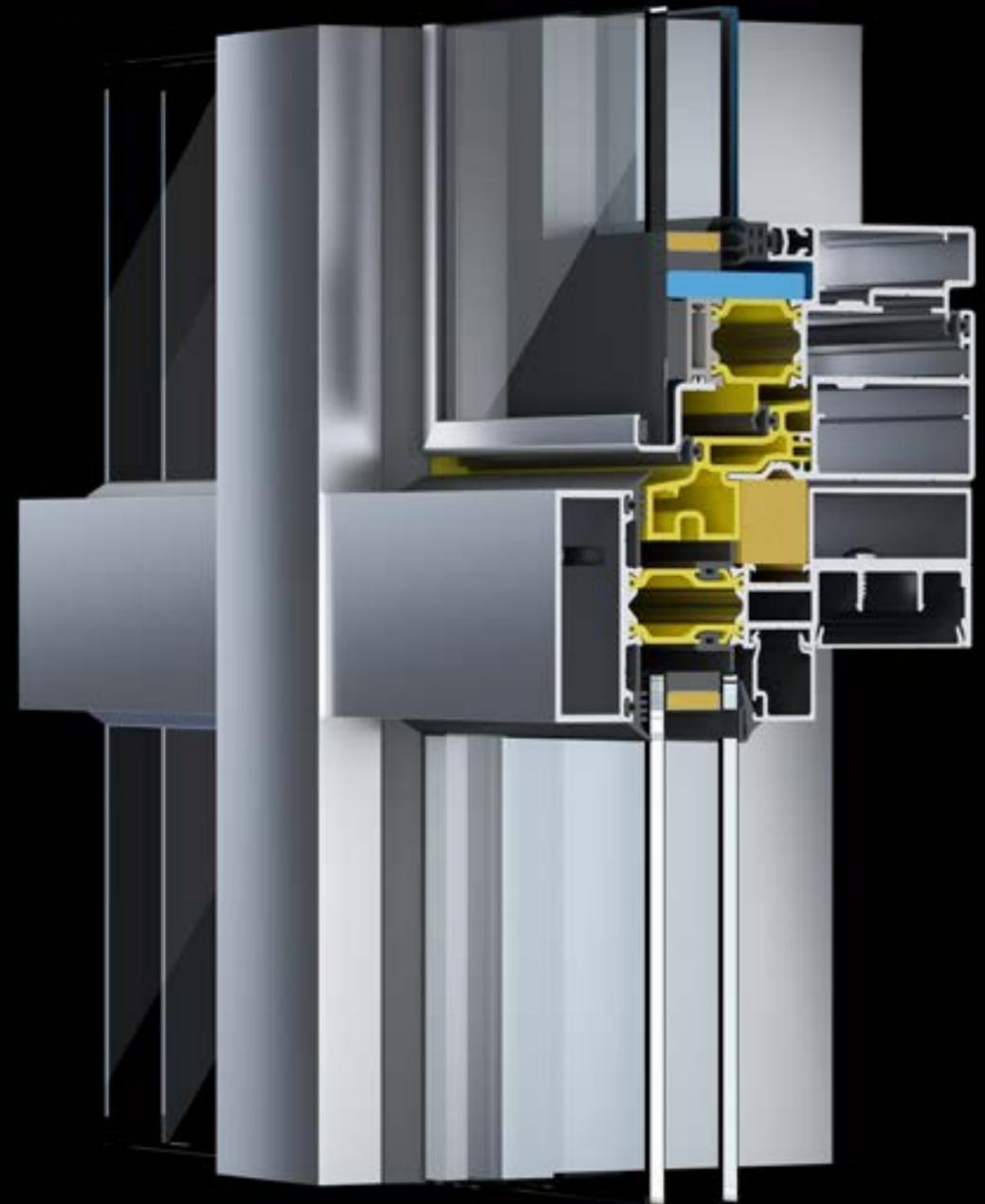


# BKF MAX

## STANDART

The BKF Max system is intended for glazing the external facades of buildings from the inside of the premise; the visible width of the profiles from the outside is 60 mm, and from the inside, a stepped transition of sizes from 60 mm to 22 mm is visible symmetrically relative to the axes of studs and trimmer beams. The system is based on combined profiles, consisting of two aluminum profiles, interconnected by means of two thermal inserts made of fiberglass-reinforced polyamide.

Mounting of facades is carried out from inside the building;  
 No scaffolding is required for mounting;  
 Improving the safety of work;  
 Possibility of serial and parallel-serial mounting of the frame.  
 Higher values of thermal resistance due to combined profiles with a thermal insert 34 mm long.



STANDART



up to 25 m

### Технические характеристики:

Width of studs and trimmer beams:	22 mm
Minimum size of studs:	130 mm
Maximum size of studs:	205 mm
Minimum filling thickness:	24 mm
Maximum filling thickness:	42 mm
Maximum filling weight:	100 kg

\* Technical catalog is available for this system

# BKF 65

## FACADE SYSTEM

The massive glazing of multi-storey buildings required fast production and mounting time of the facade glazing system. Stud - trimmer beam glazing ceased to meet these requirements; therefore, modular systems were created that took into account the architectural specifics of high-rise structures.



# BVF 47

## VENTILATED FACADES

The external cladding of buildings plays a decisive role in modern architecture and the assessment of the urban landscape, and also performs an important function of protecting structures from negative environmental influences.

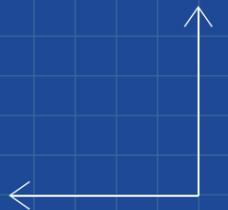
The ventilated facade is a unique structure of the building cladding, which is attached to the load-bearing outer wall of the structure using profiles and special bolts. The structure of the ventilated facade itself consists of several layers, between which there is a small air space. It provides air exchange and protects the walls from moisture accumulation.

\* Technical catalog is available for this system



# OFFICE PARTITIONS

Glass panels are not only aesthetically beautiful, but also make it possible, due to their small thickness, to carve out extra centimeters of the office space. At the same time, excellent sound insulation will make it possible for absolutely all employees to work calmly, regardless of status and rank.



# BKO 40

## OFFICE PANEL

Such glass partitions do not have to be transparent; sometimes the architect makes a matte structure on purpose, for example, for a conference room or a meeting room.



# BKO 40

## ECONOM

BKO 40 system is designed for the assembly of enclosing structures in rooms, offices, industrial plants and other premises for various purposes. Due to the simplified method of fastening profiles of studs and trimmer beams, using system aluminum brackets, mounting of enclosing structures is significantly accelerated. Fixation of the filling is carried out due to the aluminum profile imitating the clamping strap in the facade systems.

It is possible to assemble the enclosing structures with a double-sided option for mounting the filling.



### Технические характеристики:

Width of profile of studs and trimmer beams:	<b>40 mm</b>
Mounting depth of studs and trimmer beams:	<b>70 mm</b>
Filling fixation type:	<b>With clamping profiles</b>
Supported filling thickness:	<b>4 mm / 6 mm / 8 mm / 10 mm</b>

\* Technical catalog is available for this system

# BKGF 90

GLASS RAILING  
SYSTEM



Glass railings are very often used for home improvement. For example, they can be mounted on balconies, loggias or stairs. Glass structures are relevant both inside and outside the premise.

# BKGF 90

## STANDART

BKGF 90 system is designed for the assembly of glass enclosing structures; due to the reinforced high-lift profile, the structure has a sufficiently high rigidity and strength.

The glass is fastened by means of an aluminum wedge-shaped profile, which is unclamped by means of a bolted connection. A decorative glazing bead, which hides the clamping mechanisms, seals the working units of the structure due to rubber seals, which work according to the same principle as in window-door structures.

### Benefits:

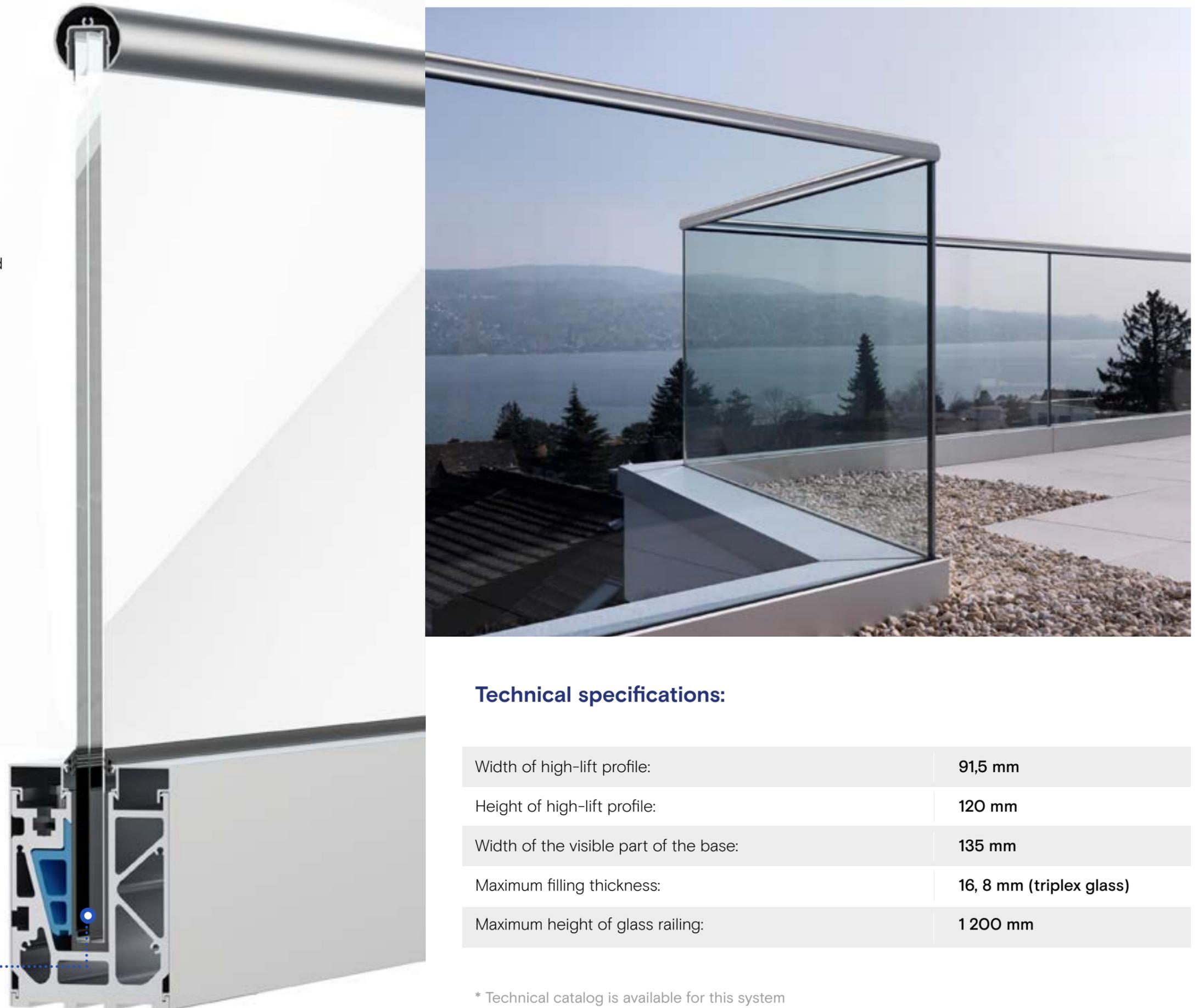
High rigidity and strength of the structure;

Reliable glass clamping system;

Various options for decorative glazing beads;

Simple assembly

● Tempered glass triplex 16, 8 mm



### Technical specifications:

Width of high-lift profile:	91,5 mm
Height of high-lift profile:	120 mm
Width of the visible part of the base:	135 mm
Maximum filling thickness:	16, 8 mm (triplex glass)
Maximum height of glass railing:	1 200 mm

\* Technical catalog is available for this system

# BKC 123

## SUN PROTECTION SYSTEM

The construction of external sun protection systems is the simplest and most effective method of passive cooling of the internal space of buildings and structures. Most of the sun rays stop before they even enter the premise.



### Technical specifications:

Width of high-lift lamella:	<b>38 mm</b>
Height of high-lift lamella:	<b>70 mm</b>
Lamella mounting options:	<b>vertical/horizontal</b>
Lamella types:	<b>"Aircraft wing" / petal lamellas</b>

\* Technical catalog is available for this system

# ROLLER SHUTTERS / SECTIONAL DOORS

Aluminum roller shutters is a worthy modern replacement for grilles, ordinary shutters and blinds. They will serve you much longer, fully preserving their aesthetic external appearance and functionality. Roller shutters made of an extruded profile will provide window and door openings with a high level of protection against burglary and prying eyes.



# ROLLER SHUTTERS

**STANDART**

There is no need to clear snow in front of them in the cold season.  
 They are easy to mount; they do not require special maintenance and will serve you for a long time.  
 Garage roller shutters are compact and ergonomic.  
 The garage profile keeps your premise warm and protects against dirt.  
 Automatic gates are opened with a remote control.  
 Low cost compared to all other types of materials!

## Technical specifications:

Width of profile of studs and trimmer beams:	<b>40 mm</b>
Mounting depth of studs and trimmer beams:	<b>70 mm</b>
Filling fixation type:	<b>With clamping profiles</b>
Supported filling thickness:	<b>4 mm / 6 mm / 8 mm / 10 mm</b>



Roller shutters are widely used in private houses, public buildings, and industrial premises. They are mounted outdoors or indoors. The main task of such products is to protect the building from unauthorized entry by unauthorized persons. The structure also protects the premises from sunlight, noise, dust; it reduces heat loss, and increases sound insulation.

\* Technical catalog is available for this system

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