

**ALUPROF**  
ALUMINIUM SYSTEMS



LET'S BUILD A BETTER FUTURE

 **ABOUT ALUPROF**



Plant in Bielsko-Biala

# ALUPROF

## traditional and modern

Aluprof SA is one of the leading manufacturers of aluminium systems in Europe. The company has branches in many European countries and in the United States. Aluprof SA is part of **Grupa Kapitałowa Grupa Kęty SA**.

With over 70 years of experience and annual sales revenues exceeding 438 M EUR, Aluprof SA has over 1,900 regular clients. Exports account for 40% of total sales. The company employs more than 2,900 employees.

Located in Bielsko-Biala, Opole, Złotów, Goleszów and Ogrodzona, Poland, Aluprof SA's state-of-the-art facilities have a surface area of more than 230,000 sqm and are equipped with:

- automated production line for insulated profiles
- ten state-of-the-art production lines for roller shutter profiles and roller-boxes
- high bay warehouses
- modern, fully automated powder coating lines, including two vertical coating lines





Plant in Opole



Plant in Złotów  
[www.aluprof.com](http://www.aluprof.com)





Plant in Goleiszów



Plant in Ogródzka



**57** export  
countries



● – subsidiaries ○ – plants

ALUPROF  
worldwide

**Aluprof SA** sells its solutions to the majority of European countries, and also to the US. The Company has a representation and distribution centres all over Europe i.e. – in Germany, Great Britain, Ukraine, the Czech Republic, Hungary, Romania, Belgium, Holland and the USA.

Aluprof is regarded on foreign markets as an important, trustworthy partner, which consequently systematically increases export sales, currently constituting 40% of total sales. The recipients of high quality architectural systems from Poland are from new markets: Azerbaijan, Georgia, Mongolia, Saudi Arabia, United Arab Emirates.



Headquarters of Grupa Kęty SA, Capital Group, in Bielsko-Biała

# GRUPA KĘTY

## holding company in a nutshell

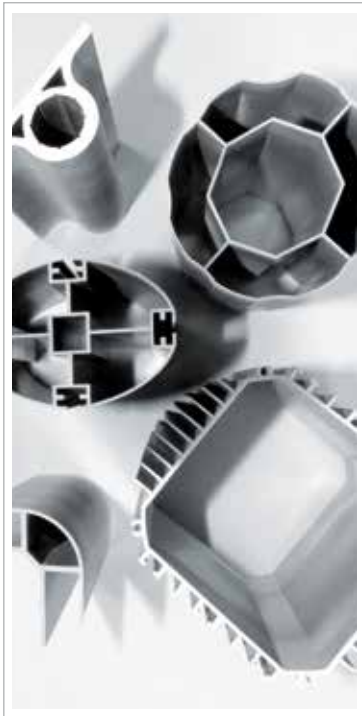
Aluprof SA is part of the **Grupa Kęty SA, Capital Group**, a holding group comprising five main business segments operating in the following areas: production of profiles and aluminium components, planning and production of architectural systems and external aluminium roller shutters, production of flexible packaging, construction and installation services of aluminium curtain walls and production of accessories for installation of windows and doors.

**23** companies belong to the Capital Group, of which **15** are foreign companies, processing approx. **110 thousand ton** aluminium raw materials annually. Consolidated revenue from sales of Grupa Kęty SA total over **1 billion EUR**, export constitutes 49% of total sales, and the recipients are approx. 3300 companies from 57 countries worldwide. Shares of Grupa Kęty SA have been listed since 1996 on the Warsaw Stock Exchange.

# STRUCTURE OF GRUPA KĘTY

## GRUPA KĘTY SA CAPITAL GROUP

### EXTRUDED PRODUCTS



### ALUMINIUM SYSTEMS



### FLEXIBLE PACKAGING







# BUSINESS

## Social Responsibility

Aluprof, part of the Kęty Group of companies, firmly believes in and practises the concept of Business Social Responsibility and sustainable development achieved by creating versatile relations with the immediate environment. In practice, this involves considering the needs of as wide a group as possible of our “stakeholders”: shareholders, employees, clients, business partners and the local community. Building these relations with the immediate environment guarantees our Company’s harmonious development and ultimately we enjoy the positive image which this creates.

Responsibility for the whole Group does not only involve satisfying all formal and legal requirements, but also increased investment in human resources, in environmental protection and relations with our immediate environment, that is, voluntary involvement. In 2014 Grupa Kęty SA began the process of formalizing its earlier activity to comply with the general world standards and procedural norms. In this process the guidelines of PN-ISO 26000:2012 standard were formally implemented in Grupa Kęty SA, the aim of which is increased efficiency of tools used and their integration with the systems and decision-making structures in the Group. In December 2014 Grupa Kęty SA joined the United Nations Global Compact initiative, which means that it upholds and applies 10 principles in the field of human rights, work standards, protection of the natural environment and countering corruption.





# GRUPA KĘTY'S FOUNDATION for Children in Podbeskidzie

FUNDACJA GRUPA KĘTY DZIECIOM POBESKIDZIA was founded by Grupa Kęty SA Capital Group in August 2011. This organization's activity centres mainly on assistance to pupils in special education centres and Children's Homes so that they receive an education, have access to various sources of knowledge, and qualifications which will give them a better start in their adult and independent life. The Foundation believes in equality of opportunity and therefore one of its goals is to shift the balance more in favour of the children so that they are not disadvantaged, through active participation in various local and national cultural and sports events.





WE HAVE REDUCED  
OUR ENERGY  
CONSUMPTION BY

**95%**

WE HAVE REDUCED  
OUR GENERATION OF  
AIR POLLUTION BY

**95%**

WE HAVE REDUCED  
OUR WATER  
CONSUMPTION BY

**97%**

# MANAGEMENT SYSTEM

## Integrated

ALUPROF undertakes a wide range of pro-ecological activities. They include not only utilising our own waste, but also reclaiming and processing aluminium scrap from the market. We employ all that waste material as a component of the raw materials for manufacturing new aluminium extrusions.

The process of purchasing the scrap is governed by rigorous quality control requirements. This ensures that the aluminium designated for secondary smelting is contaminant-free. It also means that no harmful compounds which could pose a danger to the natural environment are released into the air.

ALUPROF's window, door and façade systems have received Environmental Product Declaration (EPD) certificates. An EPD is an independent, international certificate which indicates a product's environmental impact and is recognised all over the world. It is issued on the basis of a Life-Cycle Assessment, which is designed to reduce the product's negative impact on the natural environment. The EPD system is a global environmental programme. In Poland, assessments related to the construction industry are carried out by the Building Research Institute in conjunction with an auditor. An objective evaluation and verification based on ISO 14025 and EN 15804 is performed, taking into consideration aspects such as the quantity of waste produced during production and the water and energy consumption for the entire process.



ALUECO

## GREEN accounting

The involvement of Grupa Kęty, to which Aluprof belongs, in environmental protection, means that the traditional accounting system has been adapted to the requirements of eco-friendly activity. And a "green accounting" model has been introduced, enabling a full costs analysis of environmental protection and is included in the enterprise's financial reporting.

The Company keeps comprehensive records of the costs involved in environmental protection, examines their structure and analyses changes occurring over time. The data sources for financial evaluation of pro environmental activity are: investment expenditure, the costs of maintaining and exploiting protective equipment, the level of charges required by law for exploitation of the environment, product charges etc. Environmental accounting is a tool facilitating our decision-making relating to ecological activity, and based on the evaluation of effectiveness optimal decisions are taken as to investment and organizational ventures.

Aluprof has introduced e-invoices out of our concern for the environment and the improvement of efficiency in activities with cooperating companies. This is both a convenient and safe solution that helps to protect the natural environment. And it is also a time and money saver.





## Enjoy creating WITH ALUPROF

The possibility of producing aluminium profiles at Grupa Kęty SA Capital Group gives enterprises a free hand, market flexibility, and also an offer of competitive price. Aluprof has available lines for automatic joining of aluminium profiles with the aid of thermal breaks. Manufactured "warm-formed" profiles are the basic element of window and door systems which the Company offers. The manufacture of insulated profiles is also part of our services. Apart from the standard products clients can also order profiles in two colours – that is, two different colours of coating, coating with anode, anode with a woodgrain coating etc.

Our offer also includes a bending service for profiles according to drawings and templates. We can also make bent structures from raw material profiles, or coated in a RAL, NCS and also in woodgrain ADEC colours.



In both its plants, Aluprof has available modern powder coating paint shops with high performance, fully automated lines, fitted with a quick colour change painting booths, and also a vertical paint shop. Because of the additional manual coating lines, the Company is able to easily adapt to client's requirements depending on the size of the order and deadline. We consider as a priority solutions which are environmentally friendly using non-toxic preparations and applying treatment of aluminium without chromium. The "sandwich" type cabin and the application system and recycling of powder allow effective use of the coating and quick colour change. The entire coating process is computer controlled, which guarantees permanence and easy duplication of coating parameters, including its thickness. We hold certificates from Qualicoat, Seaside and many powder paints suppliers which confirm the effectiveness of our supervision of the respective parameters.

Our offer includes: all types of powder coatings from the RAL, NCS range and paints with extended guarantee, DECORAL woodgrain surfaces. Coating of metal plate 1250 × 3000 and a double layer system (primer + finishing paint) we recommend in a "basin, coastal" environment. Output of all Aluprof paint shops is 7 million m<sup>2</sup> annually. Maximum dimensions: L 7200 mm; H 500 mm; weight of the material in suspension up to 300 kg.

Our offer includes anodised profiles, in a wide colour range. Profiles with a brush and shot blasting effect are also available. The quality of the coating is guaranteed by a Qualanod certificate.



## We Profile ARCHITECTURE

Our glass buildings, because of our effective aluminium systems, evoke admiration and recognition. Solid construction of the profiles and the shining glass give a unique result. And all the more so, when the building attracts attention for its original architecture. Aluprof's projects are eye catching for passers-by because of their unusual appearance. In Poland annually over 250 new buildings are constructed with the use of Aluprof aluminium systems: car sales showrooms, banks and hotels, university departments, hospitals, technology parks, operas, philharmonic halls, sky scrapers and shopping and entertainment complexes.

Our business partners can always count on support and consultations with our technical support department who can resolve technical problems, provide technical knowledge regarding use of new systems, construction-calculation software, training for technical personnel and supply information about our products. The department's task is also to provide advice and support in the choice of systems, material evaluations, specifications, technical drawings and planning details and calculations.





# OUR SOLUTIONS are tailor made for you

Individually planned construction solutions and details can give a building a unique character, which stands out in its surrounds. Buildings which have these types of features, are constructed precisely according to the designer's vision, and are not only the source of great satisfaction for all those taking part in the designing process and contractors – the building often becomes the characteristic focus point for a given area or the whole district, a symbol of the quality of contemporary architecture, having a direct influence on the image of the town and a welcome sight in the daily lives of residents. One of the most effective (and impressive) methods to distinguish the building this way is the use of the “objective solution” as regards aluminium and glass façades, more and more frequently used lately by architects.

In our activity we strive to constantly improve the quality of products. They satisfy the requirements of European standards as regards the quality of alloys, fabricating tolerances and the characteristics of durability. Our know how is the technical thought. Trained specialist staff work on the latest technological solutions. The designed systems satisfy market needs, and help architectural visions become reality, and also play a significant part in the development of the aluminium structures sector.



# HIGHEST QUALITY

## services and technologies

**Aluprof** always places a great weight on continuous development and maintenance of the highest level of its manufactured products and services. Each employee has a duty to maintain a high level of quality. The process begins at the suppliers, that is, from high quality components, from which systems are constructed. Innovative technologies and a modern machinery park, guarantee solid and durable products and the Client's satisfaction. This is also down to the creative work of the construction department.

Within the Grupa Kęty, in Złotów there is an accredited **Measurement and Research Laboratory**, available innovative equipment including the largest in Central Eastern Europe test chamber for windows, doors, curtain walls and external roller shutters.



# ALUPROF amongst the Best

Aluprof's top quality products have been recognised through many industry awards, including Good Brand 2021, Top Brand 2020, Joinery Market Leader 2021, Forbes Diamonds 2022, Construction Firm of the Year 2021, Golden Construction Brand of the Year 2019, Big Pearl of the Polish Economy 2021, the Eagles of Polish Joinery 2019, 5-Year Consumer Leader of Quality, Ambassador of the Polish Economy, Passive Building Ambassador, Business Cheetahs, Construction Brand of the Year, Dynamic Company, Builder of the Polish Sport Crystal Profile, Effective Company, Brown Quality Emblem QI, Quality of the Year, Customer's Laurel, Diamond to the Golden Leader of the Polish Business Statuette, Business Credibility Certificate, Eagles of the Polish Construction, European Medal for MB-86 System, EU Standard and many others.





# AMBASSADOR of passive building

**The Company's offer includes products which comply with the requirements of green construction and which perform well both in commercial and private construction work. When striving to reduce costs involved in the use of buildings, enhancement of energy saving takes on particular importance.** One of the most effective ways of attaining this goal is to use modern first fix joinery solutions which increase the thermal insulation performance of buildings. Therefore, the Company is widening its offer to include further solutions, which ideally satisfy the needs of energy-saving and passive construction. In 2014 alone, 4 systems received certificates from the Passive House Institute in Darmstadt (PHI), and two façade systems were awarded the highest possible class of effectiveness A+.

**THE POLISH INSTITUTE OF PASSIVE BUILDING AND RENEWABLE ENERGY** accorded Aluprof the status of Ambassador for Passive House Construction for the production of first fix joinery products recommended for installation in passive buildings and recommends the Company as a trustworthy partner in all passive building projects.

Aluprof is a member of the **Polish Green Building Council**. PLGBC associates a number of companies operating in construction-related sectors, whose common goal is to support the idea of sustainable construction.

# SECURITY products

Our basic profile systems for producing **burglar-resistant window and door structures provide the possibility of selecting solutions suited to the requirements for a building's thermal protection and with a classification ranging from RC1 to RC4**. Profile systems featuring different degrees of thermal insulation can be used, from the **MB-79N**, via the **MB-86N**, to the **MB-104 Passive**, which are recommended for energy-saving and passive buildings.

The glazing in security constructions usually consists of glazing units with special, often multiple-walled glass, made with tempered glass panes and special films. Depending on the categorization, the glass in windows, doors, or curtain walls is chosen according to EN 356: for classes RC1, RC2 the glass panes are not lower than P4A, while in the class RC3, these are not lower than P5A and, in class RC4 – than P6B.

**The opening methods** of security constructions are not limited only to classic side-hung or tilt and turn solutions. Those who prefer large, sliding glazed constructions and wish to keep their home well protected, can choose the system for lift & slide patio door **MB-77HS**, with an increased resistance to burglary, confirmed by tests.

**The hardware** used in security constructions have a robust structure and a special anti-burglary elements. The handle and the key are obligatory elements of the window. Exterior door can use multi-point locks and special anti-pry mandrels. Reinforced locking mechanisms in double doors play also an important role.

**Glass-aluminium curtain wall security structures allow to fabricate constructions in classes RC1 to RC3** to EN 1627:2011. They can be based on two systems, similar in appearance, but varying in internal structure and technical parameters: this refers to the classic, popular **MB-SR50N** system or to the newer and more sophisticated **MB-TT50** system that provides even better thermal insulation and tightness performance. Mullion/transom-based construction is based on a set of basic profiles, insulators, gaskets and glass of an appropriate class, and has additional security in the form of special accessories for fixing the glass to the construction using a sealing and bonding compound.

In addition to window, door and curtain wall systems ALUPROF offers **external roller shutter systems**, including an innovative system of security roller shutters **SAFETY PREMIUM**. The effective protection is ensured by reinforced channels and a special reinforcement in the endslat which ensures high rigidity and stability of the curtain. In addition, the resistant structure of the curtain prevents any impact-induced damage to the roller shutter. The latch mechanism mounted in the bottom part of the shutter prevents the closed curtain from being raised, which significantly impedes the burglar from penetrating into the building. The security construction can be used both in front-mounted and flush-mounted systems. Aluprof systems-based security roller shutters were tested to EN 1627:2011 in an accredited laboratory and **are categorized into class RC3**.

Moreover, a novelty in our offer is the anti-burglary roller shutter system in **RC2** class.





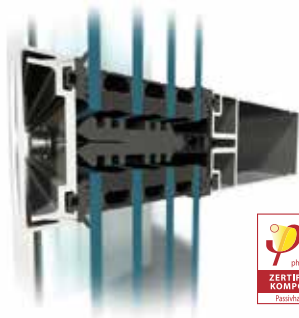
## MB-TT50 curtain wall system

### TECHNICAL SPECIFICATIONS

- mullion and transom depth: from 65 to 245 mm
- high thermal insulation: **Uf from 0,5 W/(m²K)**
- glazing thickness: up to 64 mm
- air tightness: AE 1350 Pa, EN 12153:2004; EN 12152:2004
- water resistance: RE 1800 Pa, EN 12155:2004; EN 12154:2004
- impact resistance: I5 / E5, EN 13049: 2004, EN 14019:2006

### CONSTRUCTION

- awarded with highest possible class A+ by PHI Darmstadt
- profile shapes enable flushing of mullion-transom profiles from the inside of the façade
- wide variety of angular connections to allow greater spatial structure design flexibility
- set of adapted insulators to provide an excellent protection against heat loss, while their special shape facilitates prefabrication of the façade
- high capacity of mullion-transom connections (3,0 KN) coupled with wide range of glazing to enable the use of various types of glass and the installation of large, heavy sets
- wide range of façade-integrated, openable elements: various types of doors and windows, including roof slope windows, façade-integrated windows, tilt and parallel opening windows (MB-SR50N OW)







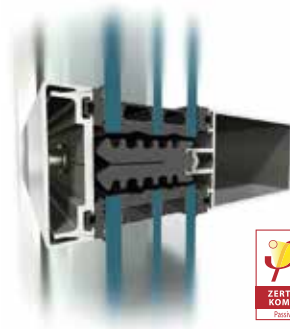
## MB-SR50N HI+ curtain wall system

### TECHNICAL SPECIFICATIONS

- mullion and transom depth: from 50 to 325 mm
- high thermal insulation: **Uf from 0,59 W/(m<sup>2</sup>K)**
- glazing thickness: up to 64 mm
- air tightness: AE 1050, EN 12152
- water resistance: RE 1200, EN 12154
- impact resistance: IS/E5, EN 14019

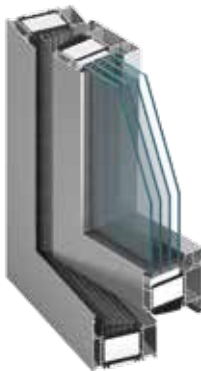
### CONSTRUCTION

- certified highest class A+ by the PHI Darmstadt Institute, MB-SR50N HI+ system can be successfully used in all passive buildings
- angle joints for a custom formation of aluminium developments
- mullions and transoms with "sharp" edges, allowing to build load-bearing structures with appearance of a uniform truss
- aesthetic varieties of façades and numerous overlay profiles of different shapes provide a multitude of variants of the façade
- wide range of façade-integrated, openable elements: various types of doors and windows, including roof slope windows, façade-integrated windows, tilt and parallel opening windows (MB-SR50N OW)
- important range of glazing and available insulators and accessories to achieve a high level of thermal insulation performance
- possibility of bending profiles and creating arch structures





## MB-104 PASSIVE window & door system with thermal barrier



### TECHNICAL SPECIFICATIONS

- frame and casement depth: from 95 to 104 mm
- high thermal insulation (openable window): **U<sub>w</sub> from 0,53 W/(m<sup>2</sup>K)**
- max. casement dimensions (H/L): 2900 mm / 1700 mm
- max. door leaf size (H/L): 3000 mm / 1400 mm
- max. leaf weight: 160 kg (window), 200 kg (door)
- max casement weight: ISO lig
- air tightness, class 4, EN 12207
- water resistance: class AE 1800, EN 12208
- wind load resistance: class C5/B5, EN 12210

### DESCRIPTION

- windows certified by the Passive House Institute Darmstadt (applies to versions MB-104 Passive SI & MB-104 Passive Aero)
- excellent tightness- and thermal insulation performance that exceeds current regulations
- important glazing range, up to 81 mm
- "Euro" grooves in fittings enable installation of most of the available fittings, intended both for aluminium and plastic windows
- possibility to use typical or concealed hinges
- door leaf expansion profiles
- 95 mm-wide doorsill – frame and doorsill are equally wide



## MB-86N/MB-86B window & door system



### TECHNICAL SPECIFICATIONS

- frame and leaf/casement depth: from 77 mm to 86 mm
- high thermal insulation:  **$U_w$  from 0,62 W/(m<sup>2</sup>K)**
- glazing thickness: up to 70,5 mm
- air tightness, class 4, EN 12207:2001
- water resistance: class E 4800, EN 12208:2001
- wind load resistance: class C5, EN 12210:2001

### DESCRIPTION

- wide range of profiles guarantees the desired aesthetics and resistance
- with its new shape, wide thermal breaks allow the use of an additional barrier in the profiles' insulation zone
- two-component, central gasket seals perfectly and thermally insulates the space between the leaf/casement and the frame
- glazing beads with additional sealing are available in three versions: Standard, Prestige and Style
- profiles' shapes are adapted to numerous multi-point locking systems, including concealed hinges
- a wide range of glazing allows the use of all common types of triple glazing, sound insulating or burglar-resistant units
- profiles' drainage functionality is available in two versions: traditional and concealed
- MB-86B has been awarded with certification ATG by the Belgian Research Institute UBAtc.





## MB-79N window & door system

### TECHNICAL SPECIFICATIONS

- frame depth: 70 mm
- sash depth: 79 mm
- high thermal insulation:  **$U_w$  from 0,64 W/(m<sup>2</sup>K)**
- glazing thickness: frame: 1,5 – 54 mm, sash: 10,5 – 63 mm
- max. window sash size H up to 2700 mm, L up to 1350 mm / H up to 2150 mm, L up to 1700 mm
- air tightness: class 4, EN 12207
- water resistance: class E1500, EN 12208
- wind load resistance: class C5, EN 12210

### DESCRIPTION

- profile depth: 79 mm (window sash) and 70 mm (window frame)
- state-of-the-art thermal breaks for even greater thermal insulation performance
- 3 thermal variants of the product: MB-79N E, MB-79N ST, MB-79N SI
- product meets the requirements of Technical Conditions from 2021 for windows 0,9 W/(m<sup>2</sup>K) and doors 1,3 W/(m<sup>2</sup>K)
- excellent kinematics enabling the fabrication of narrow, operable windows and doors
- can feature invisible hinges and the most popular multi-point hardware, including hidden fittings + state-of-the-art AluPilot fittings
- able to receive double or triple glazing, up to 63 mm
- large selection & different styles of handles, including minimalist looking handles with or without rosette





# MB-SKYLINE MB-SKYLINE TYPE R

panoramic sliding door with  
concealed frame



## TECHNICAL SPECIFICATIONS

- thermal insulation:  $U_o$  od **0,85 W/(m²K)**
- air tightness: class 3, EN 12207
- water resistance: up to class 9A (600Pa), EN 12208
- wind load resistance: up to class C5 (2000Pa), EN 12210

## DESCRIPTION

- profiles with a depth of 71 mm (casement) and 190 mm (2-rail frame)
- modern design and high aesthetics: the frame is hidden in the wall, in the floor and in the ceiling, the frame profile is fully aligned at the sides, the visible connection width of the door leaves is 25 mm
- door panels weighing up to 1200 kg and large dimensions, with a maximum height of 4 m
- a convenient, shallow, 23 mm deep frame (Type R)
- 3-chambered, thermally insulated profiles
- 52 to 60 mm-thick triple glazing units
- door opens manually or automatically
- drives and control units are concealed in frame profiles
- can use an automatic unit mounted on the outside of the structure
- a slender, symmetrical, G mullion, also available for the manually operated version
- the innovative profile compensates for the results of slab drift



## MB-77HS/MB-77HSB lift-slide door system



### TECHNICAL SPECIFICATIONS

- mullion and transom depth: from 77 to 271 mm
- high thermal insulation:  $U_w$  from 0,84 W/(m<sup>2</sup>K)
- glazing thickness: up to 58,5 mm
- air tightness, class 4, EN 12207
- water resistance: class 9A, EN 12208
- wind load resistance: up to class C4, EN 12210

### DESCRIPTION

- durable and slender profiles to enable fabrication of low-threshold doors, leaf weight of up to 600 kg, H=up to 3,2 m and W=up to 3,3 m
- frames are available in two versions: 2-rail and 3-rail
- can be corner-fitted 90° and 270° – once open, the door gives a great amount of space
- comfortable solutions with low threshold
- wide range of infills, with one- or two-chambered sets, as well as thermal breaks and additional accessories and insulation inserts to provide very good thermal and sound insulation performance
- glazing beads come in three versions: Standard, Prestige and Style
- "closed-shape" glazing beads and burglar-resistant details allow to obtain important burglar-resistant performance, this without having to make any significant changes to the door's structural elements
- unique glazing & end gaskets and appropriate hardware to provide excellent air tightness and water resistance performance
- MB-77HSB has been awarded with certification ATG by the Belgian Research Institute UBAtc.





# MB-86 FOLD LINE HD folding door

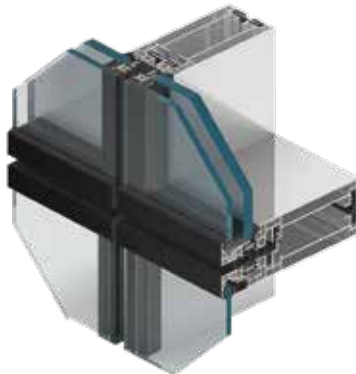


## DESCRIPTION OF THE SYSTEM

- three-chambered, resistant aluminium profiles of a structural depth of 86 mm for frames and 77 mm for door leaves
- central chamber of the profiles is equipped with 24 mm wide thermal breaks (frames) and 34 mm wide thermal breaks for door leaves providing excellent thermal insulation performance
- specialized, dedicated hardware for MB-86 FOLDLINE HD system ensures comfortable operation of the door leaves of a maximum weight of up to 120 kg
- large dimensions of the construction allow to fabricate doors with leaves of up to 3000 mm high and 1000 mm wide
- threshold solutions in different versions: classic, with edge sealing or convenient, with a low-level threshold
- large range of glazing from 14 to 61.5 mm allows to use double and triple glazing units, including specialized, more performant units in terms of sound insulation or burglary resistance
- important degree of compatibility of the MB-86 FOLD LINE HD system with the well-known and highly appreciated window & door system ALUPROF MB-86N: profiles are jointed the same way, and some profiles, gaskets and accessories are common to both systems



## MB-SE85 SG unitised curtain wall system



### CONSTRUCTION

- visible width of the façade's mullions and transoms is 85 mm
- the characteristic feature of this solution is that the glazing is fixed to the mullion using structural bonding, and to the transom – using a termination bar
- individually developed anchoring system – panels are attached to the reinforced concrete structure of the building's floors
- sealing system is also a strong point of this construction. It consists of multi-chambered gasket located between the mullions, gasket

### DESCRIPTION OF THE SYSTEM

- unitised structural curtain wall system MB-SE85 SG was designed for the project SKY TOWER. This 212-m high building is the Poland's highest residential and commercial structure
- apart from fixed glazings, the building has specially designed top hung windows controlled by electrical actuators
- it allows to obtain the required façade's aesthetics, resistance and high technical parameters
- it enables swift installation of the façade's finished segments without the use of traditional scaffolding



## MB-78EI fire-rated system



### TECHNICAL SPECIFICATIONS

- mullion and transom depth: from 78 mm
- high thermal insulation: **Uf from 1,6 W/(m²K)**
- glazing thickness: up to 84 mm
- air tightness, class 2, EN 12207:2001
- water resistance, class 5A, EN 12208:2001
- fire resistance rating
  - fixed partition walls and single-acting doors: EI15, EI30, EI45, EI60, EI90, EN 13501-2
  - sliding doors: EI30, EN 1634-1

### DESCRIPTION

- single or double-acting doors, leaf height of up to 3000 mm or automatic MB-78EI DPA-based sliding doors H=up to 2515 mm
- fixed walls and partitions with doors up to 4 m high
- use of oblique battens and bent profiles to build arch structures
- wide selection of accessories, including aesthetically looking roller guides
- silicone jointed glazed walls up to 3,6 m high

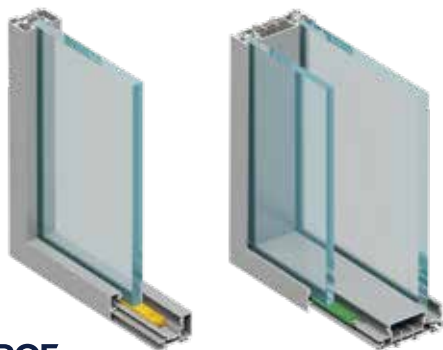






# MB-HARMONY MB-HARMONY DUO

interior glass partitions



## TECHNICAL SPECIFICATIONS

- glazing ESG 10, ESG 12, VSG 55.1, VSG 55.2, VSG 66.1, VSG 66.2, VSG 55.2 with acoustic foil, VSG 66.2 with acoustic foil
- acoustic insulation  $R_w$  of 48 dB max. / RA1 of 46 dB max.
- use category IVb
- room category A, B, C1+C5, D
- height 3.2/3.6 m for glass types ESG 12, VSG 66.1, VSG 66.2, VSG 66.2 with acoustic film
- finishing anodised, RAL colours and ADEC wood and concrete colours

## DESCRIPTION

- the structurally light profiles are only 31 mm in height
- the concealed glazing gaskets are inserted before the profiles are installed
- the entire system consists of just a few basic elements
- the connectors and accessories have been reduced to a minimum
- the system is simple to prefabricate, which can be done on site, and install later
- the unique installation panel is built using base profiles
- no need to use acrylic joints on adjoining walls
- hardware and accessories are mainly installed without machining, which has been limited to no more than a few instances
- the requisite machining can be carried out using portable tools
- the stability and reliability of the structure has been confirmed by tests
- frame doors with 35 and 45 mm leaves, single glazed, at a thickness of 5 to 13 mm, and double-glazed, at 25 to 35 mm
- the universal frame is suitable for all types of door
- the MB-Harmony and MB-Harmony DUO solutions are compatible



## MB-OPENSKY 140 pergola system

### TECHNICAL SPECIFICATIONS

- the maximum dimensions of one section are 7 m long x 5 m wide x 3 m high
- the slats are adjustable on an axis from 0 to 135°
- a wide range of RAL colours

### DESCRIPTION

- a highly functional, unusual solution used as a canopy for terraces or selected areas of gardens
- there is a free-standing version and a wall-mounted version, which comes complete with a custom-designed bracket, making it possible to insulate the wall
- a two-bay solution is also available, allowing the useable area to be extended
- the structure is made of extruded aluminium, which guarantees its durability for year after year of use
- the aesthetic design means that there are no visible gaps once the pergola is assembled
- the canopy is formed by a module composed of movable slats and featuring brush seals for protection against rainwater
- the drainage system is concealed in the structure
- optional side blinds or sliding glass panels can be fitted
- the drive is concealed in the structure
- various accessories can be fitted, including wind, rain and sun sensors
- LED lighting is available for the pergola





# SKYFLOW

exterior venetian blinds



## TECHNICAL SPECIFICATIONS

- box size: 200 - 440 mm
- max. width: 4500 mm
- max. height: 4000 mm
- boxes made of profiled aluminium bench or extruded aluminium
- two shapes of slats are available: C-shaped (turning both sides inwards to ensure rigidity and wind resistance) and Z-shaped to provide greater tightness and thus shading of the room

## DESCRIPTION

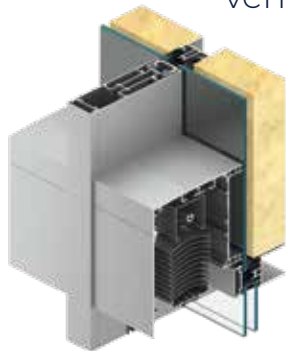
- four variants; front-mounted (SZF/A), under plaster (SZF/P and SZF/BX) or self-supporting (SZF/S)
- two types of pins are available: steel pins (durable and resistant) and PVC pins (to minimize wind noise)
- the only guides on the market that are equipped with special soundproof gaskets that reduce the noise generated when the slats hit the guides
- textile elements of the blinds (ladders and ribbons) are made of polyester and thermally preserved, which makes them resistant to weather conditions, stretching, abrasion, UV rays and mould
- when rolled up, the string ladder gets arranged in the number 8, so they do not get caught between the slats, which ensures their smooth rolling
- two bottom beam options are available: full and semi-open
- for the flush-mounted version, the guide can be built in





# MB-SR50N ZS

mullion and transom curtain wall  
system integrated with SkyFlow  
venetian blinds



## TECHNICAL SPECIFICATIONS

- box size: 220 mm, 320 mm, 380 mm
- max. width: 4500 mm
- max. height: 4000 mm
- boxes made of extruded aluminium
- two shapes of slats are available: C-shaped (turning both sides inwards to ensure rigidity and wind resistance) and Z-shaped to provide greater tightness and thus shading of the room

## DESCRIPTION

- two types of pins are available: steel pins (durable and resistant) and PVC pins (to minimize wind noise)
- the only guides on the market that are equipped with special soundproof gaskets that reduce the noise generated when the slats hit the guides
- textile elements of the blinds (ladders and ribbons) are made of polyester and thermally preserved, which makes them resistant to weather conditions, stretching, abrasion, UV rays and mould
- when rolled up, the string ladder gets arranged in the number 8, so they do not get caught between the slats, which ensures their smooth rolling
- façade mullions have special clamping strips that enable the fitting of the infill and cover caps, which also act as guides for the blinds



## SKYROLL

screen sun shade system

### TECHNICAL SPECIFICATIONS

- box size: 85 - 120 mm
- max. width: 5000 mm
- max. height: 5000 mm
- boxes made of profiled aluminium bench or extruded aluminium
- can use technical fabrics from any manufacturer

### DESCRIPTION

- the system comes in 3 variants: ZIP, CLASSIC and ECO, tailored to homeowners' needs
- the first screen system on the market to use a blocking holder in the closed position, which facilitates installation, removal, and easy service access
- the intelligent design of the ZIP variant has the fabric roll up not only on the roller tube, but also on the adapter, which ensures a better rolling
- the zipper mechanism in the SkyRoll ZIP variant makes it possible to integrate the fabric directly into the guide, which ensures wind resistance and maximum tightness
- the use of AluClick mechanism in the SkyRoll ECO makes the manual operation easy and comfortable
- 3 installation options: front-mounted, flush-mounted, and top-mounted
- the top box contains insulation which minimizes the formation of thermal bridges. Side insulation, a unique solution on the market, is also available





# SKB STYROTERM

## top-mounted systems



### TECHNICAL SPECIFICATIONS

- dimensions of roller-boxes: 260 × 260 mm and 300 × 300 mm
- max. width: 4100 mm
- max. height: 4700 mm
- excellent thermal performances of the roller shutter box
  - $U_{sb}$  from 0,29 W/(m<sup>2</sup>K) - IFT ROSENHEIM
- roller shutter curtain can be made of PVC profiles or polyurethane profiles filled with foam

### DESCRIPTION

- can be used in newly constructed & refurbished buildings
- possible to use the mechanism of venetian blinds the shutter box
- excellent thermal performances of the roller shutter box made on Aluprof demand of high quality material
- installation is made directly to the window frame using an appropriate profile  
Aluprof profiles are compatible with the majority of window & door systems (aluminium, wooden & PVC joinery) available on the market
- system-based constructions can be integrated with insect screens to ensure an effective protection against insects
- it can be manually or electrically operated (modern range of transmitters & smart control panel are available)
- wide range of colours makes them a great decorative element that matches the appearance of the building





# SAFETY PREMIUM

## burglar-resistant roller shutters

### TECHNICAL SPECIFICATIONS

- boxes dimensions: 180, 205, 230, 250 mm
- max. height: 4400 mm
- max. width: 2800 mm
- RC3 burglary-resistant
- roller shutter curtain made of PE55 extruded profiles

### DESCRIPTION

- reinforced channels prevent deflection and profiles from being pulling out
- patent-protected latch mechanism in the lower part of the roller shutter that prevents the curtain from being raised up
- reinforcement of the endslat – high rigidity and stability of the curtain
- resistant structure of the curtain prevents any impact-induced damage to the roller shutter
- can be electrically operated (a state-of-the art range of transmitters & smart control panel are available)
- our burglary-resistant construction can be used both in front-mounted and flush-mounted systems

We also offer SAFETY PLUS RC2 burglary-resistant roller shutter system





## SP/SP-E flush-mounted systems



### TECHNICAL SPECIFICATIONS

- boxes dimensions: 137,165,180, 205 mm
- max. height: 4400 mm
- max. width: 5900 mm
- certified by Passive House Institute
- after plastering, the side of the box is invisible
- roller shutter curtain can be made of PVC profiles, extruded aluminium profiles or polyurethane aluminium profiles filled with foam

### DESCRIPTION

- mainly designed for use in newly erected buildings, but also in existing ones, once the necessary changes to the lintel are made
- excellent thermal performance as they do not interfere with windows, doors or lintels (recommended by Passive Institut in Darmstadt to be used in passive houses)
- solid and durable construction
- can be equipped with an insect screen which provides effective protection against insects
- controlling roller shutters can be done manually or by means of an electric motor (the range includes modern remotes and intelligent control system)
- large selection of colours within the standard chart can meet the needs of the most demanding customers



## SK/SKP/SKO front - mounted systems



### TECHNICAL SPECIFICATIONS

- boxes dimensions: 125 mm to 205 mm
- max. height: 4400 mm
- max. width: 4400 mm
- roller shutter boxes made of profiled aluminium bench or extruded aluminium
- roller shutter curtain can be made of PVC profiles, extruded aluminium profiles or polyurethane aluminium profiles filled with foam

### DESCRIPTION

- intended for use in existing buildings as they do not interfere with the building, and do not require any special pre-installation preparation
- different shapes of roller shutter boxes are available, they can be installed to window frames (in the recess) or directly on the wall
- excellent thermal & sound insulation performance
- ability to use insect screen system, that additionally protects the interiors against insects
- controlling roller shutters can be done manually or by means of an electric motor (the range includes modern remotes and intelligent control system)
- large selection of colours within the standard chart (RAL and wood grain colours) that can be fitted aesthetically to window frames or facade of the building





## INSECT SCREEN SYSTEMS

### TECHNICAL SPECIFICATIONS

- maximum width: 6000 mm
- maximum height: 2700 mm
- extruded aluminium construction
- fibreglass net
- common components for all Aluprof fly screen systems
- can be used on wooden, PVC and aluminium windows

### DESCRIPTION

**Aluprof offers an extensive range of insect screen systems:**

- **Fixed insect screen (MRS and MRSZ)** – mounted on the outer side of the window frame is a perfect solution in rooms where we need regular protection, such as bedroom, bathroom or child's room.
- **Hinged insect screen MRO** – designed to be mounted on balcony door
- **Sliding insect screen MRP** – mounted directly to the door frame or to the reveal, and used in large glass bays, balconies, terraces and winter gardens
- **Pleated insect screen MPH** – it is ideal for installation on patio doors and balcony niches. It takes up little space due to a special pleated mesh system that forms a folding fan while closing. It is also available as two-wing variant MPH DUAL with the possibility of making a corner insect screen without a post and as a vertical option MPH DUAL dedicated to install on alu, PVC or wood joinery
- **Roll-up insect screen MZN** – mounted directly to the window frame – can be opened and closed at any time
- **Roll-up mosquito net MZH** – mounted directly to the window frame or to the wall. Also, it can be attached to roof windows with special hooks





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# ALUPROF

ALUMINIUM SYSTEMS

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