ALUPROF
ALUMINIUM SYSTEMS

MAKE YOUR HOME SAFE AND WARM WITH
ALUPROF

Aluprof for smart homeowners

QUALITY ★ TRUST ★ PRESTIGE
GOOD BRAND
2021

EUROPEAN QUALITY

A GREEN HOME, MEANING...?

Awareness of green and sustainable building is growing steadily among consumers. They recognise not only the economic benefits of energy-saving technologies, but also the impact that measures of that kind have on holding back climate change, on the well-being of the planet and on the quality of life that future generations will face. Developers are increasingly willing to decide on constructing low-energy and passive residential properties

What are green homes? Green homes are soundly designed and constructed buildings where energy loss is minimal, meaning that they generate a much lower carbon footprint than their standard counterparts. The notion of saving applies to all resources. Even so, rational heat management is of central importance to green homes. What makes it possible is the use of materials and technologies that increase the thermal insulation. In very many cases, the energy consumption for residential buildings currently being constructed can reach as much as 120 kWh/m²/year. That is unquestionably far too much. Energyefficient and passive houses have much lower requirements, at less than 60 kWh/m²/year in the case of the former and up to 15 kWh/m²/year in the latter.

PLANNED DOWN TO THE VERY LAST DETAIL

To obtain the best possible efficiency in both types of building, planning their l cation directionally is crucial, as is creating the right layout for the rooms. The shape of the house is another vital factor. The volume should be compact and the external envelope should feature high thermal insulation. These conditions form the foundations of green building. The subsequent stages and the technologies used for them will dictate not only the building's final energy-efficiency, but also its classification as energy efficient or passive.

ENERGY-SAVING BUILDINGS

In order to achieve the right parameters for an energy efficient house, the building is set on foundations which should be insulated with a properly selected insulation layer. The same applies to the walls. The window and door joinery is also crucial, since it is constitutes a critical point in terms of heat loss. The U-value should be as low as possible. In energy-efficient houses, it is more than 0.6 W/(m²K).

PASSIVE HOUSES

For passive houses, the requirements are far greater, with a thermal energy co sumption which is four times lower than in energy-efficient houses and eight times lower in comparison with standard residential buildings. In a passive house, the windows act as solar collectors, converting radiation into heat, which fills the interior of the building. The windows have a U coefficient of around 0.6 W/(m²K) and exceptionally thick insulation helps to prevent the loss of the accumulated heat via the building's exterior envelope.

SAVINGS OVER TIME

While energy-efficient or passive houses are more expensive to build than their standard counterparts, matters of cost are no longer an obstacle for a steadily growing number of individual customers. When they are evaluating their project, their focus is on the long-term and the savings associated with the building's running costs, particularly as energy prices continue to rise relentlessly.

Windows
for passive houses

WINDOWS

MB-104 Passive

RECOMMENDED FOR ENERGY-EFFICIENT CONSTRUCTIONS

CERTIFIED COMPONENT
Passive House Institute

MB-104 Passive

U_w from **0.53** W/(m²K)*

The **MB-104 Passive** is a thermal break-equipped window systems that provides the highest thermal insulation performance, and meets all the requirements for passive building components. The system is used to fabricate exterior architectural development elements, e.g. various types of windows, vestibules, and spatial structures, which are characterised, in addition to the excellent thermal insulation, by a very good sound insulation, water - and air tightness and high structural strength.

FEATURES AND BENEFITS

- windows certified by the Passive House Institute Darmstadt certified versions: MB-104 Passive SI and MB-104 Passive Aero
- excellent thermal insulation for openable window U_w from 0.53 W/(m²K)*
- tightness and thermal insulation performance exceeding current regulations
- wide range of glazing, up to 81 mm
- "Euro" hardware groove to allow the installation of most of the available
- hardware, intended both for aluminium and plastic windows can use typical, roller or invisible hinges

TECHNICAL SPECIFICATIONS	MB-104 Passive
Frame depth	95 mm
Casement depth	104 mm
Glazing thickness	frame: 27 – 72 mm / casement: 34.5 – 81 mm
MAX. SIZE AND WEIGHT OF THE CONSTRUCTION	
Max. casement size (H×W)	H to 2900 mm, W to 1700 mm
Max. weight of sash	160 kg

TECHNICAL PARAMETERS	MB-104 Passive
Air permeability	class 4, EN 12207
Watertightness	up to class AE 1800, EN 12208
Thermal insulation	U_w from 0,53 W/(m²K)*
Resistance to wind load	class C5/B5, EN 12210

* U_w for MB-104 Passive Aero-based openable window casement size 1700×2100 mm, with glazing U_g=0.4 W/(m²K)

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Keep your
home warm

WINDOWS

MB-86N SI
MB-86B

RECOMMENDED FOR ENERGY-EFFICIENT CONSTRUCTIONS

MB-86N SI

U_w from **0.70** W/(m²K)*

MB-86N is a high-performance product that meets diverse needs of its users. The design of its profiles comes in 3 variants, depending on the requirements for thermal energy savings: ST, SI & AERO. **MB-86N** is also the world's first aluminium window and door system to use aerogel – a material of an excellent thermal insulation. High resistance profiles is yet another advantage of **MB-86N**, enabling fabrication of structures of large size and weight.

FEATURES AND BENEFITS

- wide range of profiles guarantees the desired aesthetics and resistance
- with its new shape, large thermal breaks enable the use of an additional barrier in the profiles' insulation zone
- two-component, central gasket perfectly seals and thermally insulates the space between the casement and the frame
- glazing strips with additional sealing, available in three versions: Standard, Prestige and Style
- profile shapes are well suited to numerous multi-point locking systems, including invisible 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 invisible
- MB-86B system with ATG certificate issued by the Belgian Research Institute UBAtc

TECHNICAL SPECIFICATIONS	MB-86N
Frame depth	77 mm
Casement depth	86 mm
Glazing thickness	frame: 13.5 do 61.5 mm / casement: 21 do 70.5 mm
MAX. SIZE AND WEIGHT OF THE CONSTRUCTION	
Max. casement size (H×W)	H to 2800 mm, W to 1700 mm
Max. weight of sash	160 kg*

TECHNICAL PARAMETERS	MB-86N
Air permeability	class 4, EN 12207
Watertightness	class E 1500, EN 12208
Thermal insulation	MB-86N ST U_w from 0.70 W/(m²K)* MB-86N SI U_w from 0.62 W/(m²K)**
Resistance to wind load	class C5/B5, EN 12210

* U_w for openable window 1300×2700 mm
** U_w for fixed window 1300×2700 mm

An innovative
window and door system

WINDOWS

MB-79N E
MB-79N ST
MB-79N SI

The **MB-79N** is the latest cutting-edge, budget-friendly window and door system in the ALUPROF range. The successor to our highly popular MB-70 solution, which is widely used in the construction industry, it has been designed to outperform typical thermal insulation requirements. It is employed for a broad range of structures, including fixed, turn, tilt, and tiltand-slide windows, exterior doors, both single and double, and shop windowtype solutions with doors.

The economic **MB-79N E** version provides a window with a straightforward, one component, central gasket, while the **MB-79N ST** has a two-component gasket. The **MB-79N SI**, which offers the best thermal insulation, features profiles fitted with EPS insulating inserts and a two-component, central gasket.

MB-79N

U_w from **0.73** W/(m²K)**

FUNCTIONS AND AESTHETICS

- the window sash profile is 79-mm-deep profile and the window and door frame is 70-mm-deep
- thermal inserts produced using state-of-the-art technology play an important part in attaining the high heat
- insulation parameters
- three thermal construction variants, the MB-79N E, the MB-79N ST and the MB-79N SI
- the construction meets the Technical Requirements which came into force in 2021, at 0.9 W/(m²K) for the windows and 1.3 W/(m²K) for the doors
- thermal insulation: a U_w from 0.64 W/(m²K) and a U_f from 0.83 W/(m²K)
- compatibility with ALUPROF's MB-86 and MB-104 Passive systems, using the same accessories and gaskets
- excellent kinematics, making it possible to build narrow, operable windows and doors the most popular window/door hardware and furniture can be used, including the latest fitting from Winkhaus, the AluPilot

TECHNICAL SPECIFICATIONS	WINDOWS MB-79N
Frame depth	70 mm
Casement depth	79 mm
Glazing thickness	frame: 1.5 – 54 mm / casement: 10.5 – 63 mm
Max. casement dimensions (H×W)	H to 2700 mm, W to 1350 mm / H to 2150 mm, W to 1700 mm

TECHNICAL PARAMETERS	WINDOWS MB-79N
Air permeability	class 4, EN 12207
Watertightness	class E1500, EN 12208
Thermal insulation	U_w from 0.64 W/(m²K)* / U_w from 0.73 W/(m²K)** U_f from 0.83 W/(m²K) for MB-79N SI U_f from 1.21 W/(m²K) for MB-79N E and MB-79N ST
Wind load resistance	class C5, EN 1221

* U_w for an operable MB-79N SI window with a 1300×2700 mm sash and U_g=0.5 W/(m²K) glazing, when open

** U_w for an open MB-79N SI window with a 1300×2700 mm sash and U_g=0.5 W/(m²K) glazing, when open

Comfort
is just a step away

ENTRANCE DOORS

MB-79N
MB-86N
MB-104 Passive

RECOMMENDED FOR ENERGY-EFFICIENT CONSTRUCTIONS

Front entry doors, aren't they one of the most important parts of our home? They protect us from the cold, the rain or unlawful entry, to name a few reasons. Doors also help to keep the noise from outside down to an acceptable level. But how do you make the right choice, and buy a door that will meet our expectations and serve us for years?

An issue that requires careful consideration before the purchase is the heat transfer coefficient. The lower the product value, the more heat will stay with us inside the dwelling. Aluprof offers its panel door system with a U_D coefficient at a level as low as 0.44 W/(m²K)*. When choosing our door, there are other performance criteria to consider, such as the water resistance. It is the system's ability to resist or protect against unwanted water penetration, particularly in adverse conditions (driving rains), that can make a product stand out. The higher the class, the better a door product to protect a home. Aluprof offers a panel door of a 7A class.

Infill panels are included in door leaves based on the **MB-79N**, **MB-86N** and **MB104 Passive** systems come in a variety of colours and structures. The panel aspect of the product can be machine worked, can have decoration preference applied or simply include insulating glass units. Panel doors can be fabricated very large and high – up to 1.40 m (W) and almost 2.60 m (H). If, therefore, we dream of an impressive front entry, this will be the perfect choice. But above all, the door should fit to the style of your home. Where interiors are traditional, a door leaf with a glass panel finish or wood-effect veneer could typically figure. Avid fans of a more modern and contemporary interior design, can choose from a wide range of RAL colours, think shade of graphite. It only takes a moment to choose a door that is right for us, and here we are, having a beautiful entrance that can definitely impress our guests and make us feel safe at home.

ENTRANCE DOORS

U_D from **0.44** W/(m²K)*

TECHNICAL SPECIFICATIONS	MB-79N	MB-86 / MB-86N	MB-104 Passive
Frame depth	70 mm	77 mm	95 mm
Casement depth	70 mm	77 mm	95 mm
Infill panel thickness	44 mm and 70 mm	44 mm and 77 mm	to 95 mm
Max. casement dimensions (H×W)	H to 2600 mm, W to 1400 mm	H to 2600 mm, W to 1400 mm	H to 2600 mm, W to 1400 mm

TECHNICAL PARAMETERS	MB-79N	MB-86 / MB-86N	MB-104 Passive
Air permeability	class 3, EN 12207	class 3, EN 12207	class 3, EN 12207
Watertightness	class E 900, EN 12208	class E 900, EN 12208	class 7A (300 Pa), EN 12208
Thermal insulation	U_D from 0.7 W/(m²K)	U_D from 0.64 W/(m²K)	U_D from 0.44 W/(m²K)
Resistance to wind load	class C5/B5, EN 12210	class C5/B5, EN 12210	class C4/B5, EN 12210

* for MB-104 Passive door 1500×2660 mm, with two-sided, 95 mm-thick panel

Your space
with a view on the garden

PATIO DOOR

MB-77HS
MB-77HSB

RECOMMENDED FOR ENERGY-EFFICIENT CONSTRUCTIONS

A large, glazed wall in the living room or in the kitchen is a popular trend in modern day building practices. Natural lighting, spacious interiors, and a magnificent view outdoor vistas make this solution more and more popular both in family houses, as well as in comfortable apartments or hotels.

Glazed walls are extremely elegant and modern, and give the interior its unique character whilst making it look brighter and bigger. This type of window can be installed regardless of the height of the building. For typical ground floor applications, such as a family dwelling, the large vision areas can “bring the outside in” whilst watching the garden change with the seasons. At higher levels, the occupants can enjoy panoramic views on the city or on the surrounding areas.

It’s a solution for the living room or bedroom but it will also connect your home space with terrace or balcony. Lift & slide doors fabricated with **MB-77HS HI** system allow to connect the interior space with its outdoor surroundings and are a convenient way to pass from the room directly into the garden. The additional advantage is that, when in open position, the door does not take much space and does not require it during the opening.

You want your door to serve you throughout the year, and that’s why it must be waterproof, windproof and have a good thermal and sound insulation. Aluprof’s **MB-77HS HI** system-based patio door has a very good thermal insulation of U_w from 0.84 W/(m²K)*, whilst its durable and slender profiles enable the construction of a 3.2 m (H) × 3.3 m (W) low-sill door with a leaf weight of up to 600 kg.

The **MB-77HS HI** system allows to build two- or three-rail constructions with a low-level threshold and 90 and 270 degrees corner structures. The **MB-77HSB** system has been designed to meet the requirements of the Belgian market.

ENTRY DOOR

U_w from **0.84** W/(m²K)*

Corner patio door
MB-77HS

TECHNICAL SPECIFICATIONS	MB-77HS | MB-77HS HI
Frame depth	174 mm (2-rail profile), 271 mm (3-rail profile)
Casement depth	77 mm
Glazing thickness	13.5 – 58.5 mm
MIN. PROFILE WIDTH, FROM THE OUTSIDE	
Frame	48 mm
Leaf	94.5 – 105.5 mm

TECHNICAL PARAMETERS	MB-77HS | MB-77HS HI
Air permeability	class 4, EN 12207
Watertightness	class 9A, EN 12208
Thermal insulation	U_f from 1.4 W/(m²K), U_w from 0.84 W/(m²K)*
Resistance to wind load	up to class C4, EN 12210

* U_w for MB-77HS HI doors, 3000×2900 mm, glazing U_g=0.5 W/(m²K)

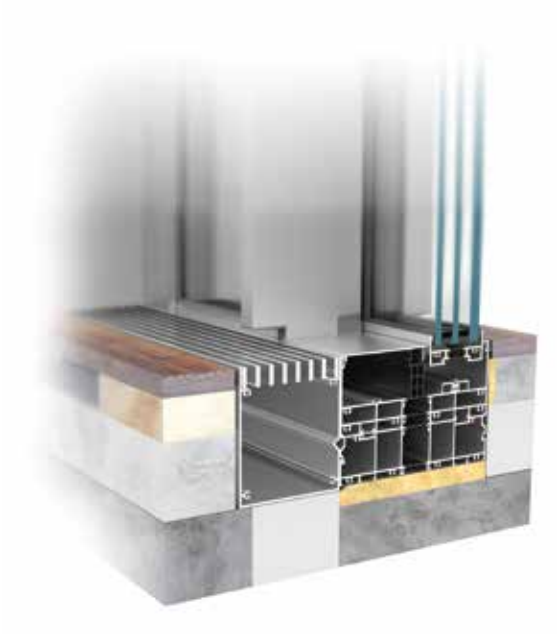
When the view
matters

SLIDING DOOR WITH INVISIBLE FRAME

MB-SKYLINE
MB-SKYLINE TYPE R

RECOMMENDED FOR ENERGY-EFFICIENT CONSTRUCTIONS

The **MB-SKYLINE** sliding door system with invisible frame uses narrow profiles. This gives the construction a modern and minimalist look. Constructions fabricated with **MB-SKYLINE** have a one-of-a kind design and raise the profile of any project. They provide a comfortable, threshold-free connection of indoor and outdoor living spaces, making natural environment part of homeowners' daily experience. While the doors can be very large, their slim design gives the impression of lightness and delicacy. The product is uniformly glazed, has slim modulations and perfectly fits into high-end construction market.



MB-SKYLINE

U_w from **0.85** W/(m²K)

FUNCTIONS AND AESTHETICS

- a profile depth of 71 mm for the leaf and 190 for the double-track frame
- a highly aesthetic construction with a contemporary design. The frame is concealed in the walls, floor and ceiling. The leaves are completely flush with the profile of the frae at the sides. the visible width where the leaves meet is 25 mm
- the Type R version features a convenient, shallow, 23-mm-deep frame
- door leaves with a weight of up to 700 kg and a maximum height of 4 m
- thermally insulated profiles designed for triple glazing
- triple glazing units with a thickness of 52 to 60 mm
- manual or automatic opening and closing
- the drives and control units are concealed in the frame profiles
- an automatic drive can be installed on the outside of the construction

TECHNICAL PARAMETERS	MB-SKYLINE	MB-SKYLINE TYPE R
Air permeability	class 3, EN 12207	up to class 4, EN 12207
Watertightness	up to class 9A (600Pa), EN 12208	up to class 8A (450Pa), EN 12208
Thermal insulation	U_W from 0.85 W/(m²K)*	U_w from 0.80 W/(m²K)**
Resistance to wind load	up to class C5 (2000Pa), EN 12210	class C3 (1200 Pa) B3 (1200 Pa) EN 12210

* for door leaf 2070×3440 mm, with triple glazing units U_g 0.5 W/(m²K) and warm spacer

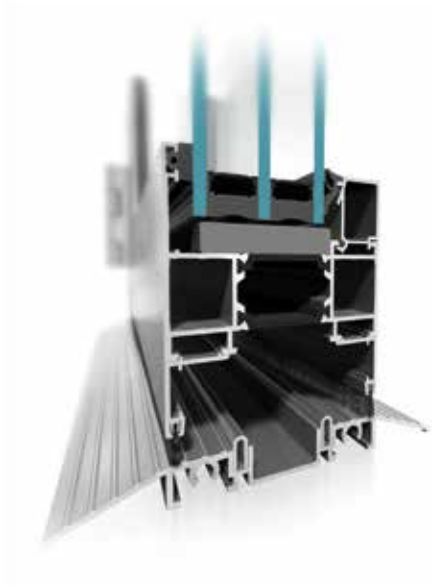
* for door leaf 2049×3441 mm, with triple glazing units U_g 0.5 W/(m²K) and warm spacer

Make the natural
environment part
of your daily experience

FOLDING DOOR

MB-86 FOLD LINE HD

RECOMMENDED FOR ENERGY-EFFICIENT CONSTRUCTIONS



Door with low-level threshold
MB-86 FOLD LINE HD

ALUPROF's folding door is a solution that allows to almost fully fold glazing and open interior spaces to garden or terrace. This solution is ideally suited for both family homes and apartments with spacious terraces. **MB-86 FOLD LINE** can also be used in cafés or restaurants to enlarge space and create beer and wine gardens.

Folding door can open outwards and inwards. Especially popular on Benelux markets, **MB-86 FOLD LINE HD** is a modern product designed to meet the high demands of users, architects and project owners.

The unique design of the system enable door manufacturers to fabricate very large doors. Each door leaf can be up to 3.0 m high and 0.7 - 1.2 m wide. When used in combination with several panels, **MB-86 FOLD LINE HD** enables to open the entire wall of an enclosed space the construction is designed to ensure comfortable operation of a door weighing up to 120 kg max. With glazing thickness ranging from 14 to 61.5 mm, door manufacturers can use double and triple insulating glass units, including specialized, highly performant, noise reduction glass or anti-theft glass.

Yet another benefit of **MB-86 FOLD LINE HD** is its compatibility with the well-known and highly acclaimed window & door system ALUPROF MB-86N.

TECHNICAL SPECIFICATIONS	MB-86 FOLD LINE HD
Frame depth (door / window)	50 – 70 mm
Leaf/casement depth (door / window)	from 59 mm depending on the system
Glazing thickness	4.5 – 60 mm
MIN. PROFILE WIDTH, FROM THE OUTSIDE	
Frame (door / window)	depending on the system
Leaf / casement (door / window)	depending on the system
MAX PROFILE WIDTH, FROM THE OUTSIDE	
Max door leaf size (H×W)	H up to 2400 mm, W up to 1600 mm
Max leaf/casement weight (door / window)	120 kg

TECHNICAL PARAMETERS	MB-86 FOLD LINE HD
Thermal insulation	U_D from 1.1 W/(m²K)

Effective sun
control

EXTERNAL VENETIAN BLIND

SkyFlow

GUIDES FITTED WITH CUSTOMISED SOUND DAMPERS

SKYFLOW SZF/A

SKYFLOW SZF/S

SKYFLOW SZF/P

SKYFLOW SZF/BX

FUNCTIONS AND AESTHETICS

Fitting façades with external venetian blinds is a highly practical way of blocking out the sun and effectively protecting interiors from overheating while providing comfortable optical conditions Regulatable slats are typical feature of these products, giving users the freedom to select the angle and degree of shading which works best for them.

At the same time, the aesthetic profile of the slats and the aluminium structural elements in the form of the headbox and guides, give façades a contemporary, original look. Well-designed, well-made structures of this kind also make it possible to create large-scale constructions, so they are very often used for extensive glazing. As a result, external venetian blinds have been employed to excellent effect in public buildings and residential developments alike.

The ALUPROF range offers a system in three variants; **adaptable**, **flush-mounted** and **motorised**.

- two types of pin are available. One is hard-wearing aluminium. The other is PVC, which minimises wind noise
- the slats are made using an aluminium profile. C-shaped and Z-shaped versions are available. The C-shaped slats curve inwards on both sides, guaranteeing their rigidity and wind-resistance. In addition, they can be angled from 0 to 180°. The Z-shaped slats feature a structure that provides a deeper darkness and they are also fitted with special sound dampers. They can be angled from 0 to 90°
- the guides, which are the only one of their kind on the market, are fitted with special sound dampers that eliminate any noise when the slats hit the guide rails
- the ladders and tapes are made using polyester fabric. They are thermally treated, making them resistant to weather, stretching, wear and the action of UV radiation and mould
- two forms of bottom rail are available, full and semi-open
- the flush-mounted version can be fitted with casing for the guides

Elegant protection
from intensive exposure to the sun

EXTERNAL ROLLER BLIND

SkyRoll

ZIP

CLASSIC

ECO

THE ONLY SOLUTION ON THE MARKET ALSO AVAILABLE WITH INSULATED SIDES

External roller blinds provide a highly functional solution which is readily used for public and residential buildings alike. The main advantage of these blinds is the protection they provide interiors against exposure to the sun thanks to the specialist, technical fabrics. They also provide privacy by stopping people outside from seeing in, while giving users an excellent view out. In addition, they offer optical comfort by acting as an effective barrier to the light streaming in and minimising the screen glare it can trigger.

With the right choice of fabric, external roller blinds become a stylish accessory, adding a unique decorative flourish to a building. It is worth noting that, when properly chosen, they can also function as efficient insect screens, keeping interiors free of insects.

The ALUPROF range offers three systems, the **SkyRoll ZIP**, the **SkyRoll CLASSIC** and the **SkyRoll ECO**.

FUNCTIONS AND AESTHETICS

- available in three versions, the ZIP, the CLASSIC and the ECO, suited to the developer's requirements
- the first external roller blind on the market to feature a special mechanism in the closed position, making it easier to install, uninstall and access for servicing
- the well-designed and well-made structure of the ZIP version means that, when the blind is closing, the fabric winds onto not only the roller, but also the adapter, making the process more effective
- the use of the zip mechanism in the SkyRoll ZIP system means that the fabric can be directly integrated with the guides, ensuring wind resistance and guaranteeing maximum airtightness and protection against the ingress of direct light and insects
- the use of the ALU-CLICK mechanism in the SkyRoll ECO system ensures that it is simple and comfortable to operate manually
- three headbox variants; adaptable, flush-mounted and top-mounted
- the top-mounted headbox is insulated in order to minimise the occurrence of thermal bridges

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Reduce your energy bills
by up to 30% with roller shutters
by Aluprof

ROLLER SHUTTERS

Historically, roller-shutters have often been considered as a luxurious & decorative element, yet lacking the essential functions in certain areas. Roller-shutters can significantly contribute to the reduction of heat loss in winter, while during the summertime, protect rooms from the sun's rays. This effectively prevents the room or interior from over-heating, thereby reducing the need & consumption of additional cooling equipment. Additionally, external blinds are a practical solution as both a protection means & deterrent to intruders. External blinds are far more efficient than ordinary curtains or shutters, due to their design. Between the surface of the window & the blinds shell, an insulating pocket of air is created. Even at high temperatures outside, a more comfortable coolness will occupy this space. If we leave the shutters closed on a hot day, the evening will bring a pleasant & relaxing coolness of shadow.

Aluprof offers roller shutters that are fully based on all of its systems. **SKO** & **SKO-P** systems have been designed to allow a front mounted installation. Their oval roller-boxes are a decorative element of the external wall. As for **SK**, **SKE** & **SKP** systems, they perfectly fit into the recess. Aluprof has also designed roller shutters for those, who might want to conceal the boxes under the plaster coating. In this case, buyers can choose **SP** or **SP-E** systems, as they both provide a significant level of energy-efficiency. This was confirmed by a certificate (165 mm box and lower) by the Passivhaus Institut, Darmstadt. Aluprof is the first company in Poland to obtain such certificate in roller shutter product group. **SKB STYROTERM** is a high-tech solution of top-mounted roller shutters intended for direct installation to the window frame. The main element of this system is a shutter box, which is made of high quality material with very good thermal properties that was confirmed by renowned research institute IFT ROSENHEIM.

Thinking about Investors for whom security is of particular importance, Aluprof has designed two anti-burglary roller shutter systems in the RC3 and the RC2 class which depending on the needs, have different types of protection. Thus makes that our home is safe during our weekend or holidays trips.

DID YOU KNOW...

In winter, windows and doors contribute to the loss of up to 25% of the heat and in summer, they absorb up to 60% of the sunlight. To save energy in winter and avoid excessive heating up in summer, it is a good idea to use Aluprof's external roller-shutters that help to reduce energy costs throughout the year up to 30%.

25% heat loss in winter

absorb 60% of sunlight in summer

SP-E + MKT

CERTIFIED COMPONENT
Passive House Institute

RC2 ANTI-BURGLARY

RC3 ANTI-BURGLARY

RECOMMENDED FOR ENERGY-EFFICIENT CONSTRUCTIONS

Breathe new life
into your garden

PERGOLA

MB-OpenSky 140

FUNCTIONS AND AESTHETICS

Pergola is a modern and extremely functional solution, used as roofing for terraces or separate garden areas, which, depending on the needs and creativity of the user can find a number of applications.

The **MB-OpenSky 140** structure is made of extruded aluminium, which guarantees its durability for years. The supporting posts are extremely tough and their geometry provides exceptional rigidity. The canopy is formed by a module composed of movable slats and fitted with a mechanism for changing their angle on an axis from 0 to 135°. The slats feature tailor-made seals for protection again rainwater and there is a drainage system located in the posts. This ensures that water is efficiently fed through gutters and downpipes to the storm drain.

- construction made of extruded aluminium
- aesthetic fixings without any visible gaps
- drainage system hidden in the structure
- roof module with slats rotatable within a 0-135° range
- slats fitted with sealing gaskets to protect against rainwater
- a motor hidden in the structurei
- invisible feet
- LED lighting
- optional use of side screens such as SkyRoll screens or all-glass sliding doors
- snow load up to 200 kg/m² (covering of - snow approximately 1000 mm deep)
- wind load up to 59 mph.
- a wide range of RAL colours

Fabric blinds
a unique touch to your interior design

FABRIC BLINDS

FREE | FLAT | SPACE

Fabric blinds are the most popular shading solution used in public utility buildings and also in private homes. Due to their practical nature, they are becoming more common than traditional curtains or drapes.

They compensate for reflections that may appear on computer or TV screens. These products are the perfect marriage of aesthetics and functionality. Thanks to a well-chosen fabric, blinds are a stylish addition and a unique touch to any interior.

Aluprof's fabric blinds are characterized by simplicity and elegance. System design and careful detailing make the blinds look modern and contemporary. Carefully thought-out mounting solutions allow for fast and non-invasive installation of the systems.

As the first system provider, within the SRT FLAT MAXI textile roller blind system, Aluprof introduced an innovative mechanism of strap adjustment for "day&night" fabrics. Thanks to this solution, straps in our roller blind will be trimmed properly and equally spaced.

FLAT

FREE

SPACE

SRT FLAT MAXI

Keeping
mosquitoes away

MOSQUITO NETS

MRS | MRSZ | MRO
MRP | MZN | MZH | MPH

In summer, open windows to provide adequate ventilation in order often remove excess moisture & other air born impurities. However, homeowners have to defend ourselves against insects & other such unwelcome visitors. The most effective method to avoid flying and biting insects are mosquito nets. It is an excellent protection against insects, but also it protects us against the external impurities, while maintaining access to light and air. Aluprof offers an extensive range of mosquito net systems:

Fixed insect screen systems MRS and MRSZ
perfect solution for interiors where regular protection is needed, such as bedrooms, bathrooms and children's rooms. The product is mounted on the outer side of the window frame. It can be used on wooden and PVC windows (MRS) and on flushed aluminium windows (MRSZ)

Hinged fly insect screen system MRO
mounted directly to the door frame or to the jamb using hinges with self-closer

Sliding insect screen system MRP
mounted directly to the door frame or to the jamb, it is used in large glass bays, balconies, terraces and winter gardens

Roll-up insect screen system MZN
mounted directly to the window frame, it can be opened and closed at any time

Roll-up mosquito net MZH
mounted directly to the window frame, it is also adapted for installation on window roofs

Pleated insect screen system MPH
designed for installation on patio doors and balcony recesses

Pleated insect screen MPH HARMONY VERTI
designed for installation on windows and roof windows

MZH

MRS

MRO

MRP

MPH

Saving space
is an important advantage
of roll-up gates

ROLL-UP GARAGE DOOR

BGR

For single-family home owners, garage doors are as important and functional as the front door. That is why garage doors should have adequate functional performances, and provide comfort and safety to the occupants.

When buying a garage door, home owners must think of the amount of space that has been allocated to the garage door. When there is a little space, the best solution might be a **roll-up garage door**. This is a perfect solution both for new build-garages as well as for existing buildings. Moreover, it is the most universal product in terms of saving space, since this type of door opens in a vertical plane. It also enhances the safety of occupants due to the fact that it does not limit visibility, which is especially important when you leave the garage.

Aluprof garage doors are characterized especially by high quality of details, very good functional preferences and aesthetic look that will be a great achievement of all investments.

—
Protecting and embellishing
your home

SHUTTERS

MB-SUNSHADES

MB-SUNSHADES provide an excellent solar shading and give the external wall its characteristic appearance. The solution consists of a frame with diagonal arranged slats or panels. Made of aluminium, the components are highly resistant to weather conditions and do not require any renovation work during years, which distinguishes them from structures built with PVC or timber. Frame profiles are slim and light, but of an appropriate stiffness, which allows to fabricate both curtains for windows and patio doors.

Aluprof's shutters are an option for those who look for practical yet aesthetic solutions. The shutters can be colour-matched with external walls or windows or simply used as a remarkable accent on the wall. Given the multiple possibilities offered by the technology of decorative and protective coatings made on aluminium, the **MB-SUNSHADES** are perfect for use in various types of construction: traditional buildings will successfully call for structures with timber- like texture, whereas in modern homes, there may be preferred a colour combination of a structure with muted colours, identical to those of the windows, especially impressive when windows and doors are made of aluminium.

The hinges available for this system allow to use different solutions when in closed position: they can be jutting out, flushed in line, or placed deeper in the window recess.

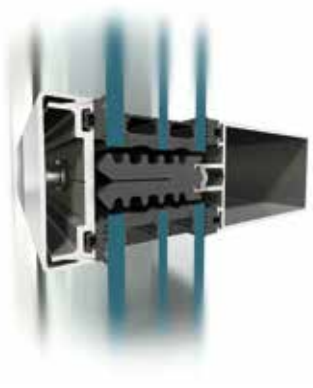
TECHNICAL SPECIFICATIONS	MB-SUNSHADES
Casement depth	32 mm
Infill profile depth	50 mm
Infill profile distance	every 45 mm
Maximum size	1200×2500 mm

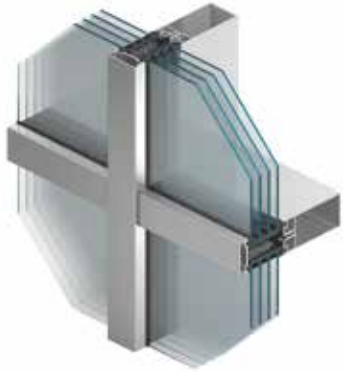
Bringing comfort and modernity
to your home

FAÇADES

MB-SR50N HI+
MB-TT50

RECOMMENDED FOR ENERGY-EFFICIENT CONSTRUCTIONS





CERTIFIED COMPONENT
Passive House Institute

MB-SR50N HI+

U_f from **0.59** W/(m²K)

MB-TT50

U_f from **0.5** W/(m²K)

A robust profile structure and a shiny glass give it an unique effect. For green, family homes, Aluprof offers façade systems of very good technical and insulation parameters.

The **MB-TT50** façade is a cutting edge high-tech aluminium stick system curtain wall. Thanks to a set of adapted insulators, the façade efficiently protects the building against heat losses while their special shape facilitates the fabrication of the façade. Various angle connections provide flexibility in designing spatial structures, allowing the **MB-TT50** system to offer great opportunities in shaping the construction. ITT type tests to EN-13830, carried out at the Building Research Institute revealed that it is currently the best aluminium stick system curtain wall officered on the market. Thermal insulation of the system U_f from 0.5 W/(m²K).

The **MB-SR50N HI+** system, just like the **MB-TT50**, is intended for designing and fabricating fill and hung-type lightweight curtain walling, roofs, skylights and other spatial structures. In order to get the optimum thermal and acoustic insulation and to facilitate the installation of the **MB-SR50N HI+** system façade, a PE insulator was used, as it provides an excellent thermal insulation performance U_f from 0.59 W/(m²K), while its shape guides the screw during the glazing process of the façade. The system allows to build façades with visible, narrow dividing lines and provides the durability and strength of the structure. Thanks to a wide range of profiles offered by Aluprof, even the most audacious ideas on designing aluminium and glass structures become real.

TECHNICAL SPECIFICATIONS	MB-TT50	MB-SR50N HI+
Mullion depth	65 – 245 mm	50 – 325 mm
Transom depth	64 – 244 mm	5 – 189.5 mm
Mullion stiffness (coeff. range Ix)	35.41 – 1639.59 cm⁴	26.04 – 4123.45 cm⁴
Transom stiffness (coeff. range Iz)	28.53 – 1233.76 cm⁴	0.79 – 629.54 cm⁴
Glazing thickness	to 64 mm	to 64 mm
Max infill weight	600 kg	1100 kg

TECHNICAL PARAMETERS	MB-TT50	MB-SR50N HI+
Air tightness	AE 1350Pa, EN 12153; EN 12152	AE 1050, EN 12152
Watertightness	RE 1800Pa, EN 12155; EN 12154	RE 1200, EN 12154
Thermal insulation	U_f from 0.5 W/(m²K)	U_f from 0.59 W/(m²K)
Resistance to wind load	2700Pa, EN 12179, EN 13116	2.4 kN/m², EN 13116
Impact resistance	I5/E5, EN 13049, EN 14019	I5/E5, EN 14019

Excellent
burglar protection
in classes from RC1 to RC4

BURGLAR-RESISTANT SYSTEMS

WINDOWS | DOORS
FAÇADES
ROLLER SHUTTERS

ALUPROF's aluminium systems include a wide range of solutions to improve safety of buildings thanks to the increased resistance to burglary. Some of these products provide the highest level of safety available in the market. Burglar-resistant window & door constructions are based on standard system solutions: **MB-60**, **MB-79N**, **MB-86N**, **MB-104 Passive** that include resistance-enhancing elements – anti-burglary glass, elements and hardware intended for such applications.

These solutions are classified burglary-resistant (classes **RC1** to **RC3**). Specialized solutions classified **RC3i** and **RC4** are also available. Burglar-resistant constructions can also be fabricated using the system for lift & slide patio door MB-77HS and mullion-transom curtain walls based on MB-SR50N & MB-TT50 systems. These products are complemented by ALUPROF's anti-burglary systems for roller shutters in the **RC3** and the **RC2** classes. The solutions help to provide an increased level of protection wherever it is required: in single family houses, offices, shops or special-purpose facilities.

Window system
MB-104 Passive SI

Burglar resistance class **RC3**

Patio door system
MB-77HS

Burglar resistance class **RC2**

Roller shutter system
Aluprof Safety Premium

Burglar resistance class **RC3**

Highly aesthetically appealing
Extremely light

EXTERNAL BARRIERS

MB-GLASS BARRIER

MB-GLASS BARRIER external barriers are used in French windows (large glazed doors, typically opening on to a garden or balcony) to prevent from falling. In such windows, glass barriers are also an additional partition that reduces noise coming from the outside. When attached to aluminium windows, they can perfectly fit their colour. Also, they can be attached to PVC or wooden windows.

FEATURES AND BENEFITS

- attached directly to window profiles
- upper edge of the glass is protected with aluminium or stainless-steel strip
- can be installed on single or double-leaf constructions
- glass infills that increase daylighting
- infills made of bonded glass from 8.4 to 20.8 mm
- can be used in housing construction, offices and public facilities

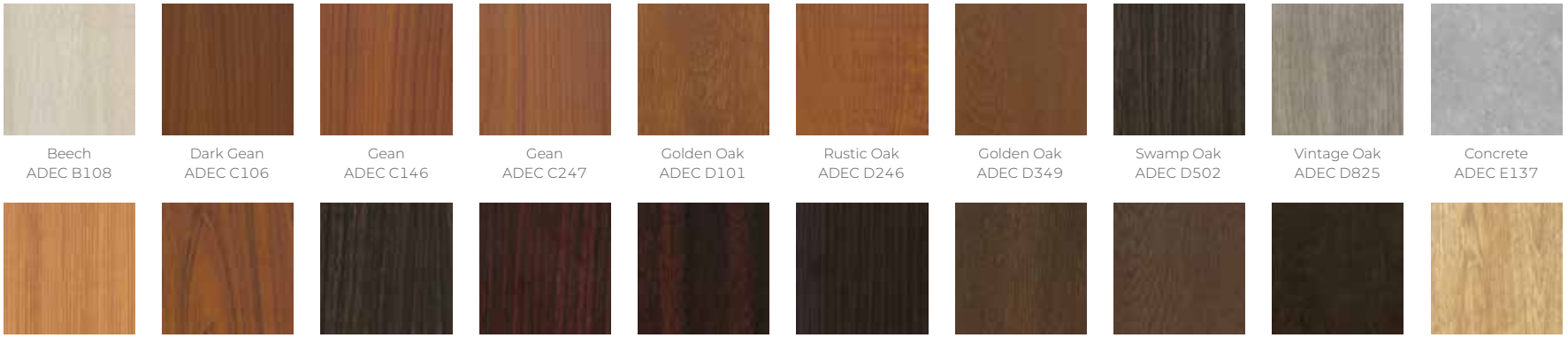
Glazed balustrade
MB-GLASS BARRIER

ALUPROF

HOME.aluprof.com

For much more information about energy-efficient, aluminium systems for the construction industry, please visit our website dedicated to green homes.

WOOD AND CONCRETE **EFFECT**



Beech ADEC B108 | Dark Gean ADEC C106 | Gean ADEC C146 | Gean ADEC C247 | Golden Oak ADEC D101 | Rustic Oak ADEC D246 | Golden Oak ADEC D349 | Swamp Oak ADEC D502 | Vintage Oak ADEC D825 | Concrete ADEC E137

Fir ADEC J107 | Chestnut ADEC K101 | Ebony ADEC M102 | Mahogany ADEC M103 | Sapele Mahogany ADEC M204 | Palisander ADEC M332 | Walnut ADEC O102 | Vein Walnut ADEC O205 | Walnut ADEC O650 | Turner Oak ADEC T151

Cherry ADEC W109 | Wenge ADEC W205 | Winchester ADEC W645

COLOURS
RAL AND STRUCTURAL*

* All RAL colours and structural colours as per the offer.
The colours may vary slightly from the finished product.

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ALUMINIUM SYSTEMS

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Grupa Kęty

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