

KLAR

STUDIO | WINDOWS + DOORS



INSECT SCREEN SYSTEMS



KLAR'S INSECT SCREENS

In summer, the atmosphere of a pleasant evening can be destroyed by a cloud of mosquitoes or wasps circling the table. The ideal solution is to use insect screens, which are effective, practical and well-designed to protect against insects. Importantly, these products also provide effective protection against contamination from the outside, while providing access to daylight and fresh air.

The rich offer of KLAR includes three types of frame insect screens: fixed (**MRS and MRSZ**), swing (**MRO**) and sliding (**MRP**). There are also roll type insect screens **MZN** and **MZH** mounted independently to the window joinery and pleated insect screens **MPH HARMONY**, **MPH DUAL** and **MPH VERTI**. The construction of insect screens allows for easy installation on window and door profiles. The swing insect screen **MRO** is perfect for balcony doors. The perfect solution for rooms where regular protection is required, such as bedrooms, bathrooms and children's rooms is **MRS** fixed insect screen. Due to the fact that aluminum joinery starts to play an increasingly important role not only in office or commercial buildings, but also in residential buildings, we decided to adapt our fixed insect screens so they can be installed on flush-mounted aluminum windows, introducing **MRSZ** system to our offer. It is a functional solution that does not limit the functionality of the window in any way.

The ideal solution for access to the terrace is a sliding insect screen **MRP**. In turn in the kitchen a rolled insect screen **MZN** which has the advantage of being able to close and open at any time is going to work perfectly. This solution will certainly be appreciated by mothers that want to control the safety of their children playing in the backyard. In order to protect the attic, we have developed an insect screen system **MZH** which, thanks to the use of a special hook-in connection, is perfect for installation on roof windows. The pleated insects screen **MPH HARMONY** is a novelty in Aluprof's range. It was designed with the aim of providing space savings while they guarantee the optimal use of the surface. This solution is also available in the **MPH DUAL** version as a two-wing option with the possibility of making a corner insect screen without a post and **MPH VERTI** for mounting on window frames and roof windows.

KLAR insect screens are made of aluminum and available in many colors, which allows for their proper adjustment to the window frame and facade of the building.

MPH HARMONY

Pleated insect screen system

Pleated insect screen system MPH HARMONY is a solution primarily designed with the aim of providing space savings. This product is ideal for installation on the patio doors and balcony niches, where the width reaches up to 4 m. The use of special pleated mesh, which when closing arranges in a zigzag pattern and hides in the side profile is a characteristic feature of this product. Thus, the insect screen takes up little space allowing optimal use of the surface. Importantly, it does not impair, in any way, the functionality of the door and does not obstruct visibility to the outside. An advantage of this solution offered by KLAR is the possibility of separate tension control of each of the ropes controlling the insect screen, which guarantees its stable arrangement. The MPH system is characterized by an extremely smooth movement, which makes its use very simple and does not require much effort. In addition, the construction of the insect screen allows to stop it in any position. The offer includes three variants of threshold profiles: glued, screwed and adapted for mounting on an inclined surface of HS type. The insect screen is made of extruded aluminum, which makes it durable and resistant to weather conditions, and in addition it can be varnished in any RAL color. The pleated insect screen Harmony has been designed to smoothly work with the KLAR roller shutter systems. For the top-mounted roller shutter system SKT Opoterm and SKB Styroterm system, special guide channels PPMO 60/12 and PPMO 60/17 with a dedicated chamber for mounting the Harmony MPH system were designed. Moreover, in the top-mounted roller shutter systems and adaptive roller shutter systems, the installation of a pleated insect screen is possible with the PPMO 53 guide channel.



The insect screen construction is made of extruded aluminum, which guarantees its durability and strength



The pleated mesh when closing arranges in a zigzag pattern and hides in the side profile, which guarantees considerable space savings



The possibility of separate tension control of each of the ropes controlling the insect screen, which guarantees its stable arrangement



The use of low threshold allows free passage of users



The possibility of achieving large widths up to 4 m



PRACTICAL AND
MODERN

MPH DUAL

Pleated insect screen system

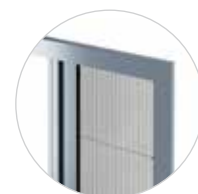


INTELLIGENTLY
DESIGNED

MPH DUAL is a pleated insect screen system, which belong to the HARMONY family. The system has been designed as a two-wing variant with the possibility of making a corner insect screen without a post. Due to this solution, the product can be used on standard terrace doors, whose dimensions reach up to 6 m wide and 2.7 m high, as well as on increasingly popular HS type corner sliding doors. A characteristic feature of the MPH DUAL system is a pleated mesh which, when closed, arranges in a zigzag pattern and then hides in the side profile and due to this solution allows for optimal use of space. The mesh is available in several sizes, so called sets, which depending on the need can be cut, thus adjusting the mesh to the size of the joinery. Moreover, the mesh is available in two colors: grey and black, which allows to adjust it to the needs of the user. The MPH DUAL system is characterized by an extremely smooth movement, which makes its use very simple and does not require much effort. Two sizes of sliding profiles are available in the offer. In addition, the construction of the insect screen allows to stop it in any position. The advantage of this solution is also the low threshold, which facilitates smooth passage. The construction of the insect screen is made of extruded aluminum, which makes it durable and resistant to weather conditions, and in addition it can be varnished in any color. The pleated insect screen MPH DUAL works with roller shutter systems and sliding doors MB-77HS available in the KLAR offer.



The insect screen construction is made of extruded aluminum, which guarantees its durability and strength



The possibility of separate tension control of each of the ropes controlling the insect screen, which guarantees its stable arrangement



System is available in the version as a two-wing variant with the possibility of making a corner insect screen without a post



The pleated mesh when closing arranges in a zigzag pattern and hides in the side profile, which guarantees considerable space savings

MPH VERTI

Pleated insect screen system

The insect screen system MPH VERTI complements the offer of pleated insect screens and was designed primarily for installation on standard and roof windows. The use of special pleated mesh, which when closing arranges in a zigzag pattern and hides in the upper profile is a characteristic feature of this product. The main advantage of the new system is the possibility of tensioning each of the cords guiding the insect screen net, which allows for its precise and even layout. It is available in several sizes, so called sets, which, depending on the needs, can be cut symmetrically, thus adjusting the pleats to the size of the window. Closing and opening of the insect screen is very easy and smooth, thanks to the system of springs installed in the bottom profile. The tensioning elements have been aesthetically hidden under a special masking profile, which can be detached and clipped in at any time. The sliding profile of the insect screen, thanks to the designed recess, allows for convenient opening and closing. It is also possible to stop the insect screen at any time. The construction of the insect screen is made of extruded aluminum guaranteeing its durability, and is based to a large extent on components of the MPH HARMONY system. Maximum size of the new insect screen is 2300x2000 mm. It is worth adding that the MPH VERTI insect screen, due to the introduction of dedicated guide channels to the offer, also cooperates with Aluprof's external roller shutters. For the top-mounted roller shutter system SKT Opoterm and SKB Styroterm system, special guide channels PPMO 60/12 and PPMO 60/17 with a dedicated chamber for mounting the Harmony VERTI system were designed. Moreover, in the top-mounted roller shutter systems and front-mounted roller shutter systems, the installation of a pleated insect screen is possible with the PPMO 53 guide channel.



The insect screen construction is made of extruded aluminum, which guarantees its strength and weather durability



Specially designed recess in the sliding profile allows convenient opening and closing of the insect screen



The possibility of separate tension control of each of the ropes controlling the insect screen, which guarantees its stable arrangement



The tensioning elements in the form of a system of springs have been aesthetically hidden under a special masking profile, which can be detached and clipped in at any time



UNIQUE



MZN

Roll-up insect screen system



COMFORTABLE TO USE



Compact, semi-oval cassette made of extruded aluminum



The endslat made of extruded aluminum with a sealing for the window sill or window frame



The sealing mounted in the top of the box



Extruded aluminum guide channels with seal

The roll-up insect screen system MZN is a perfect and extremely tight solution protecting the interior against the presence of insects with the possibility of closing and opening at any time. The construction of the insect screen (box, guide channels, endslat) is made of extruded aluminum, which ensures its durability and strength for many years of use. Thanks to the use of a special hook it is possible to adjust the height of closing the net. In addition, it is possible to use a brake, which allows to gently and silently close the endslat in the box. A novelty in the offer is an intuitive mechanism ALU-CLICK for convenient closing and opening of the insect screen, which makes its use very simple and does not require a lot of effort. When closing it is enough to gently close the bottom endslat of the insect screen. If you want to open it, press on the endslat, which opens automatically. The system is extremely practical, especially since the components of other insect screen systems offered by KLAR have been used to the maximum extent. MZN is a very aesthetic and a modern solution, which thanks to a small shutter box fits perfectly into any recess, and at the same time will satisfy the needs of users who do not want to use a fixed insect screen.

MZH

Roll-up insect screen system

The roll-up type insect screen system MZH is a modern and very functional solution designed mainly for installation on roof windows. The construction of the insect screen is made of extruded aluminum and is based to a large extent on components of the MZN system. This allowed the use of, among other things, the endslat and guide channels that are perfectly matched to the specially designed hook-in connection. Thanks to the innovative solution, it is possible to lock the endslat on roof windows from the inside. In addition, the clever shape of the hook allows for efficient attaching and detaching of the endslat, which makes its use very simple and does not require a lot of effort. In addition the fastener ensures full tightness of the bottom part of the insect screen, which eliminates the need for additional seals. The proposed system is extremely versatile, as it is also adapted to be installed on vertical windows. Thanks to the system design it is also possible to install a guide channel with offset and the insect screen MZH when the window is equipped with a drip cap that prevents standard installation directly into the window frame. This solution improves access to the endslat and makes it easier to fasten the hook. The offer includes a PVC corner, the application of which significantly improves the comfort and safety of using an insect screen. Thanks to this element it is also possible to cut the frame at right angle, which significantly facilitates production. Its installation is very simple and fast. MZH is a very aesthetic solution that will fit into any interior with certainty providing perfect protection against insects.



Compact, semi-oval cassette made of extruded aluminum



The innovative solution enables the endslat to be locked on the roof window from the inside



The shape of the hook facilitates quick snap-in and snap-out of the endslat



The fastener ensures full tightness of the bottom part of the insect screen

DESIGNED FOR
ATTIC SPACE



MRP

Sliding fly screen system



CAREFUL ADJUSTMENT

The slide insect screen system MRP protects interiors from insects and is used in large, glazed niches of balconies, terraces and winter gardens. The insect screen sash moves between the upper and lower sliding rail. In the lower part there is a track roller with a mechanism allowing for a smooth adjustment of the inclination angle of each sash. Additional reinforcement, mounted by means of a snap-in connection, makes it possible to make a larger sash frame. Frame profiles and sliding rails are made of durable extruded aluminum profile of modern shape, covered with a coating characterized by increased resistance to abrasion and the effects of weather. The shape of the main profile of the insect screen eliminates the need for additional hooks. The frame and sash of the insect screen are assembled by means of internal corners. The insect screen can be installed in a multi-row system. Thanks to the low rail solution, it works perfectly with sliding doors, where the so-called low threshold is used.



Possibility of installation in a three-row system



The additional reinforcement of the insect screen sash is mounted by means of a snap-in connection. Thanks to this element, in a quick and easy way it is possible to increase the surface area of sash



Sash guidance – its purpose is to position and simultaneously protect the sash against falling out



The low rail solution works perfectly with sliding doors, where the so-called low threshold is used



The frame and sash of the insect screen are assembled by means of internal corners, which are characterized by durability and aesthetics

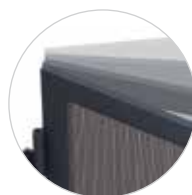


Each sash of the insect screen is sealed with brush seals

MRO

Hinged fly screen system

The swing insect screen system MRO perfectly protects the room against insects and at the same time perfectly cooperates with balcony doors. The profile of the insect screen frame has a rounded, modern shape, which fits perfectly with the currently used window frames. The frame of the insect screen is connected by means of internal aluminum corners, which significantly stiffens the whole construction. It is also possible to choose how to join profiles with corners by clamping on a press or by means of set screws. The additional reinforcement in the form of a connecting profile allows to make a frame of larger dimensions. In addition, the brush seal is located around the entire circumference of the frame, which ensures additional sealing.



Self - close hinge is a simple spring tension adjustment with an Allen key. It is possible to screw the hinge in two planes. The applied solution is protected by patent



Easy installation of the insect screen frame using the internal corner with set screws



There are two opening variants available: ergonomic and aesthetic handle or a specially profiled connecting profile that allows you to close and open the insect screen from both the inside and outside of the sash



Two filling plate heights in the lower part of the sash, which protects the net against damage during opening

AESTHETICALLY PLEASING
AND FUNCTIONAL



MRS

Fixed fly screen system

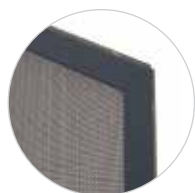
The fixed insect screen system MRS is a perfect protection of rooms against insects. The frame of the insect screen can be connected by means of aluminum internal corners crimped or screwed. External plastic corners are also available in a wide range of colors. The system enables cooperation with most of the window profiles. We also have an internal corner with a possibility to adjust the angle. Fasteners for installation of the insect screen are offered in ten sizes. The frame profile is made of a strong extruded aluminum profile of a modern shape, covered with powder varnish. The profile is offered in two variants: with a "fin", adjacent to the window frame and without a "fin", with a chamber for a brush seal, used with a completely built-in window frame. The MRS system offers a wide range of insect screen meshes, including anti-allergic mesh, which thanks to the special weaving structure keeps pollen outside, steel mesh, which is the ideal protection against rodents, durable aluminum mesh and mesh that ensures greater transparency in comparison to those used in the standard. A novelty in our offer is the MRSPZ insect screen for half-faced windows, where the external surface of the window sash is protruding beyond the plane of the seal adhesion giving a small space (to fix the fixed insect screen system MRS). The solution provides installation of an insect screen both in the version with an external and internal corner.



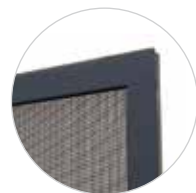
Frame with external plastic corner with angle adjustment which allows to make the insect screen with irregular shapes



Frame with external plastic corner



The frame with internal corner with channel for a brush in a version with side sealing



Frame with external plastic corner in version with side sealing



STRONG AND
DURABLE

MRSZ

Fixed fly screen system



EASY TO
ASSEMBLE

The fixed insect screen system MRSZ is a solution designed for use on flush aluminum windows. These insect screens are characterized by high aesthetics and high quality of details. All components of MRSZ are made of extruded aluminum, which ensures their resistance to weathering, guaranteeing reliable use of the product for many years. The frame of the insect screen can be connected by means of aluminum internal corners crimped or screwed, which allows for the color matching with the window frame. A well-thought-out construction of the system allows for large dimensions (2000×2000 mm without the connecting profile and 2000×3000 mm with the connecting profile). The use of a frame insect screen does not limit the functionality of the window. The insect screen fasteners work with all window systems offered by KLAR.



The frame with aluminum internal corner screwed or crimped



Mounting bracket for easy and quick installation of the insect screen on the window frame



The upper fastener for easy attachment of the insect screen to the upper part of the frame, which is additionally equipped with a brush seal to ensure full tightness



The bottom fastener makes it easy to attach the insect screen to the bottom part of the frame

MKT

Integrated insect screen system

Few investors are aware of the fact that Aluprof's external roller shutter systems, front-mounted, under plaster and topmounted have the possibility of direct integrations with the insect screen. Therefore, in the course of making decisions about the purchase of external roller shutters at the order stage, the investor can equip them with an independently operating Moskito system. In this case, external roller shutters are equipped with properly sealed guide channels, bottom endslat and specially designed roller shutter boxes, enabling installation of the round reel with the insect screen net. Such design guarantees effective protection against insects, providing at the same time, the smooth operation of the roller shutter and the insect screen. The Moskito system is equipped with a special cord to facilitate closing of the insect screen. The Moskito insect screen is made of durable glass fibre, resistant to weathering and is available in two colors: black and grey. In addition, the solution is equipped with a special spring mechanism with a deceleration brake, which minimises the impact effect of the bottom endslat against the roller shutter box. Maximum dimensions of the roller shutter with MKT integrated insect screen are 2000 x 2500 mm (and in the top-mounted roller shutter system SKT OPOTERM in the NOVA 2000 x 2700mm version). In addition, KLAR offers the following option allowing the installation of the insect screen in a set of roller shutters in any place. It is possible due to the use of the KWA-MKT/7 bracket for Moskito set. It is a particularly convenient solution when the glazing which is covered by the roller shutter is fixed and therefore does not require additional protection against insects.



FULLY
INTEGRATED

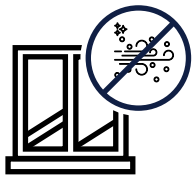




Why is it worth to choose insect screens?



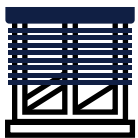
Insect screens are extremely functional and aesthetic protection of rooms against insects. The insect screen mesh does not impair in any way visibility to the outside.



These products also provide effective protection against contamination from the outside, while providing access to daylight and fresh air.



Thanks to the use of aluminum or stainless steel mesh we can effectively protect cellars or utility rooms where food is stored from the presence of birds, rodents or insects.



KLAR'S external roller shutter systems, both front-mounted, under plaster and topmounted have the possibility of direct integration with the insect screen. At the stage of purchasing of a roller shutter it can be equipped with Moskito system. Such a solution allows for protection against insects in summer, while protecting the interior of the building against heat losses in winter.