

CONTENTS

1. INTRODUCTION

- 1.1. Explanation of definitions and symbols
- 1.2. General information

2. SAFETY REQUIREMENTS

3. PRODUCT OVERVIEW

4. OPERATION AND USE

- 4.1. Use
- 4.2. Operation

5. MAINTENANCE AND REPAIRS

- 5.1. Maintenance
- 5.2. Repairs
- 5.3. Technical inspection

6. HAZARDS

7. REMOVAL AND END-OF-LIFE DISPOSAL

8. PRODUCT MARKING

Important safety instructions.

WARNING!

**Compliance with this Manual is essential for personal safety.
Keep this Manual for reference.**

If you find any terminology used in this Manual unclear or cannot explicitly interpret the Manual, consult the manufacturer before attempting to install the Insect Screen.

The content of this documentation is protected in accordance with the applicable provisions of the law of the Republic of Poland, in particular the Act of 4 February 1994 on copyrights and related rights (Consolidated Text, Journal of Laws of 2021, item 1062), and in accordance with the provisions of the European Union law, in particular with Directive 2001/29/EC of the European Parliament and of the Council of 22 May 2001 on the harmonisation of certain aspects of copyright and related rights in the information society (Official Journal of the European Union, L 2001, No. 167, page 10, as amended). Any downloading or reproduction of the entire documentation or its part for further dissemination, without the consent of Aluprof S.A., is illegal and is subject to criminal and civil law liability.

1. INTRODUCTION

All systems made by Aluprof are designed in compliance with first-class standards of performance, aesthetic values and operating convenience. The design deliverables from Aluprof engineers are based on the state of the art in design engineering, and the production ownership uses the latest know-how in manufacturing. This ensures safety of operation of Aluprof products.

1.1. SYMBOLS AND NOMENCLATURE




System Provider – oznacza podmiot gospodarczy niebędący producentem wyrobu budowlanego, dostarczający półprodukty w ilościach hurtowych i technologię, niezbędne do stworzenia wyrobu budowlanego. Systemem są moskitiery (ramkowe stałe, otwierane, przesuwane, zwijane, plisowane). Systemodawcą jest firma Aluprof.

Manufacturer – means an business organization that is not a manufacturer of a construction product, supplying semi-finished products in wholesale quantities and technology, necessary to create a construction product. The system includes external roller shutters (front-mounted, underplaster, top-mounted). The system provider is Aluprof.

Supplier – means any natural or legal person who supplies product of another manufacturer to the market. The supplier may also be the product installer.

Product user – the person using the installed product.

The special information indicated by graphical in this Manual requires careful reading and understanding.


Symbol	Meaning	Description
	INFORMATION	This symbol indicates important information to read and understand. It does not relate any hazardous or harmful conditions of the product or people.
	NOTE	Indicates risks of damage to the product.
	WARNING	Indicates all safety-relevant information non-compliance with which will cause a hazard of injury or death.


1.2. GENERAL INFORMATION


The supplier is not responsible for losses resulting from failure to comply with these instructions, except for defects on the part of the supplier.

 The manufacturer will not accept any liability for damage caused by incorrect operation and/or maintenance of its product.

The improvements of insect screen systems as well as increasing the quality of service and safety of their use are constantly carried out.


 This Manual is intended for the user of the insect screen. Read it before commissioning the insect screen for use. The Manual includes all information necessary for safe operation and proper maintenance of the insect screen. Keep this Manual for the whole operating life of the insect screen. Transfer this Manual with the insect screen to the new owner, if any.

 The owner of the insect screen is required to introduce all users to this Manual and instruct them in proper operation of the insect screen.

 • The manufacturer will not accept any liability for damage caused by incorrect operation and/or maintenance of its product.
• No warranty claims of damage caused by force majeure, inclement weather, and normal wear and tear will be accepted.
• The manufacturer will not be liable for any alteration or improvement made to the product structure or outfitting it with any accessories not approved by Aluprof S.A.

2. SAFETY REQUIREMENTS

Compliance with the following requirements is essential to ensure the safety of insect screen users and insect screen operation. The requirements apply to the installation location and the use of the insect screen.

 Extreme safety precautions are required for small children and the disabled. The guardians of children shall be liable for compliance with the safety instructions provided by the product manufacturer.

 Strict compliance with the safety instructions is required within the range of the insect screen effects on objects or fit-out features.

3. PRODUCT OVERVIEW

The **insect screen** provides an excellent barrier to insects and airborne solids between the exterior and the interior of a building. It is intended for installation on the outside of a wall opening (a window or a door) in residential and public buildings. The insect screen components are made from extruded profiles; all shapes are finished by powder coating. The insect screen mesh is made from high-quality glass fibres. The first-class materials make the product extremely resistant to inclement weather and elements. With a simple design, they can be applied in nearly all types of buildings.

Fixed insect screen net types:

- **standard net made of PVC-coated** fiberglass, intended for use in protection against insects. It is characterized by high strength and resistance to UV rays and weather conditions. This net has good air permeability and transparency of 47%.
- **net made of glass fiber with an extremely thin fiber structure** compared to the standard net, the dimensions of the net openings are smaller than in standard net. This net does not lose its strength and at the same time is has high translucency at the level of 71%. It is less visible to the naked eye compared to a standard net and is characterized by good air permeability.
- **anti-allergic net** made of polyester to maximally preventing pollen from entering the room. The net is weather resistant and easy to maintain. It is characterized by a translucency of 45% and does not contain any toxic substances.
- **aluminum net provides** excellent protection against insects and small rodents. This net can be used both in doors and windows as well as protection of windows and cellar hatches. It is an easy-to-maintain and PVC-free net. Thanks to its light finish and thin fibers, it is almost invisible to the eye with a translucency of 73%.
- **mesh made of AISI304** stainless steel that guarantees the best protection not only against insects, e.g. wasps, but also against rodents and birds. This is the right protection for places where food is stored or processed. This net is very durable and easy to maintain. In addition, it is characterized by very high translucency (74.9%).

The key features of the insect screen include:

- perfect protection of the interior against insects while maintaining full air circulation,
- Easy installation and operation;
- perfect protection against adverse weather conditions (wind, rain, snow, sun, etc.),
- durable extruded profiles,
- Compatible with roller shutter systems;
- Compatible with the majority of window and door systems available on the market.

i Mosquito nets do not meet any tightness requirements, watertightness, sound insulation, thermal insulation and protection against burglary.

i The insect screen mesh size may slightly vary over the entire screen mesh surface. This does not affect the performance of the insect screen and cannot be reasonably claimed as a product defect on warranty.

i The insect screen is equipped with a spring which supports the rolling of the net. The insect screen can also be equipped with a brake that slows down rolling of the net and stops it from rolling up too rapidly, prevents also endslat from hitting the box.

4. OPERATION AND USE

The insect screen and its components have been designed in the way that no parts of it will be permanently deformed during normal use. Frequently inspect the appearance of the insect screen for its technical condition. If anything abnormal is found, consult the vendor or its authorized reseller.

 Using a damaged or incomplete insect screen and/or unauthorised repairs can cause hazards of injury or death and may void the product warranty.

4.1. USE


When operating the insect screen, follow the guidance below to prevent damage of the product:

- for rolled insect screen, a string and a end slat equipped with a handle on the inside are used to close the insect screen,
- in the case of a swing insect screen, handle and connecting profile are used to open and close,
- Clean the screen mesh of fine dirt which might cause the screen to fail while rolled up.
- when closing the insect screen, make sure that there are no objects in the path of movement of the leaf or the bottom lath with the mesh,
- when closing the insect screen, make sure there are no obstacles in the way of the wing or end slat with the net;
- avoid contact of the net with hot objects (e.g. heaters, stoves, irons),
- Do not attempt unauthorized modification of the insect screen structure or movement system.

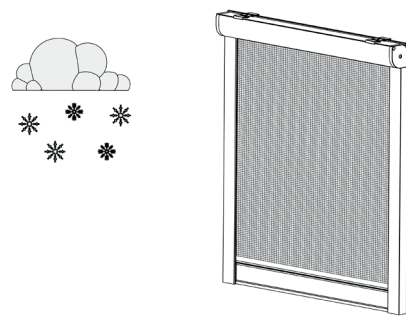
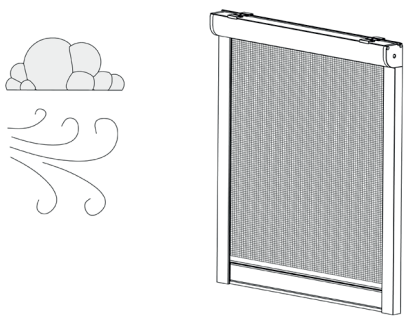




 Note that the insect screen cannot protect anyone from falling out of the window it closes.

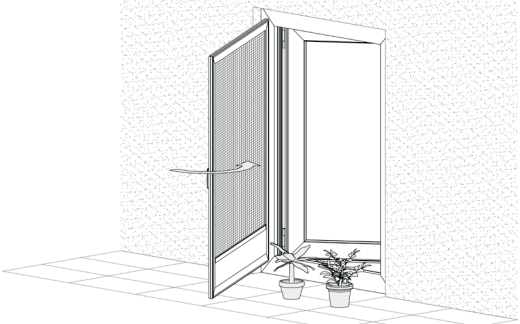
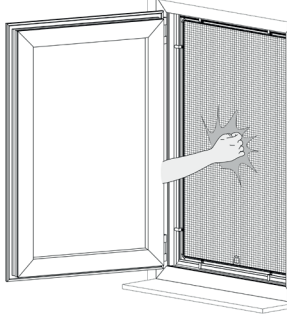


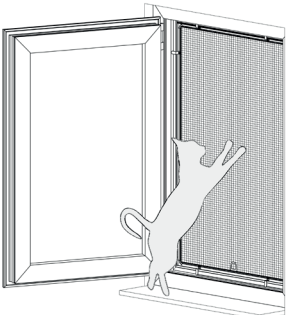

Incorrect use of the insect screen may cause:

- Hazards to the users;
- Risks of damage of the product;
- Partial or total loss of the product performance;
- Loss of aesthetic value of the product or the building it is installed in.


 The the insect screen protects against insects only when it is fully closed.

Essential operating safety guidelines for the Insect Screen:

Operation in winter	Operation of the insect screen in windy weather
	
<p>To avoid damaging or destroying of the insect screen in winter, it is recommended to dismantling or roll the net into the box.</p> <p>During frost and snowfall, the net may ice up. In this case, insect screen must not be operated. Insect screen can be operated again after icing cessation.</p>	<p>Close the window screened by the product in high wind. When absent, take the necessary precautions to prevent wind draughts.</p>
<p> Using of the insect screen in frost may damage it.</p>	<p> Using the insect screen in strong winds and an open window may damage the product.</p>
<p> Removing ice from the net and elements of the insect screen may damage it.</p>	<p> The specified wind load class is guaranteed even when the window is open.</p>

Insect screen working range	incorrect operation of the insect screen
	
<p>Make sure that no obstacles is left between insect screen wing and window frame, before closing insect screen.</p>	<p>It is forbidden to push the net out.</p>
<p> Obstruction of the insect screen work range may result in damage it.</p>	<p> Pushing or leaning against the net might damage the product and/or can cause hazards of injury or death.</p>
Access to insect screen elements	
	<p>Particular attention should be paid when pets come into contact with the net - protect it from damage.</p> <p> Pets are capable of destroying the net.</p>

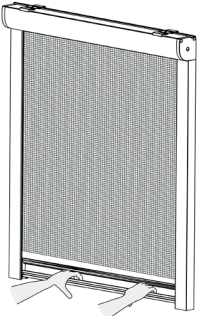
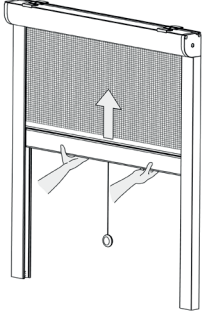
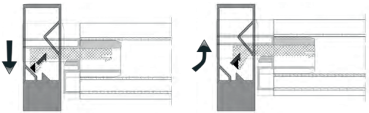

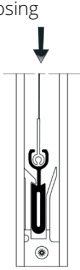
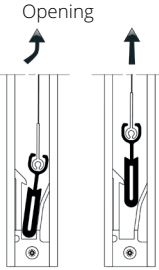
4.2. OPERATION

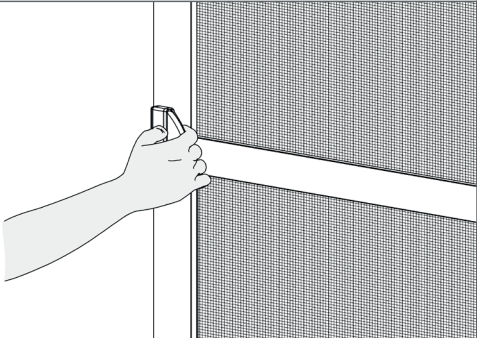
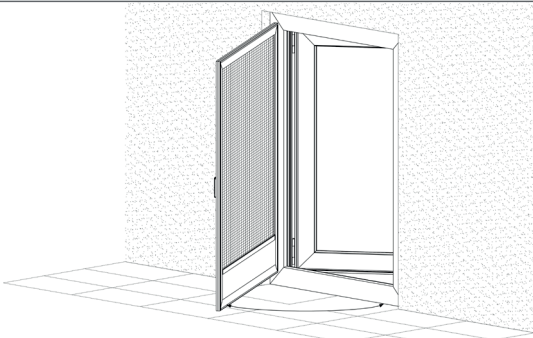
 Keep the insect screen rolled up/closed completely and for fixed and swing insect screen close the window or door behind the insect screen when wind speeds above exceeding the allowed speed in a given wind load resistance class.

Wind load resistance classification acc. to EN 13561	Safe wind speed	
	[m/s]	[km/h]
1	< 8,0	< 28,8
2	< 10,6	< 38,1
3	< 13,3	< 47,8
4	< 16,5	< 59,4
5	< 20,8	< 74,8
6	< 25,3	< 91,1

Information about the wind load resistance class of a given insect screen can be found on the CE label and on the Declaration of Performance (DWU) supplied with the product.

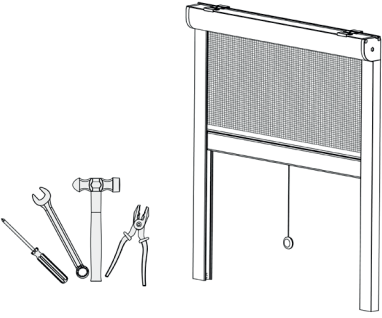
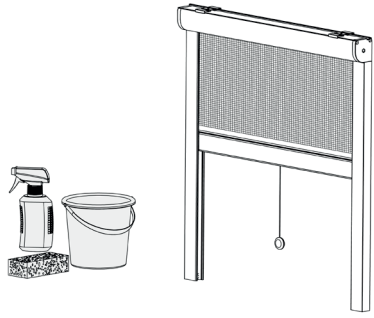
The Aluprof insect screen is a product which, within the normal and reasonably foreseeable conditions of operation, poses no or negligible hazards acceptable for normal use and it is compliant with stringent requirements for the safety of human life and health.

Roll-up insect screen	
Operating the insect screen	Risk of damage while opening
	
<p>Variant I Closing</p>  <p>Opening</p>  <p>Variant II Closing</p>  <p>Opening</p> 	<p>To close the insect screen, lower the bottom rail to the end (bottom) position. To open the insect screen, press the bottom rail down.</p> <p>To close the insect screen net endslat needs to be moved to end position (down), to open it endslat needs to be pressed down.</p> <p>i The insect screen can be optionally provided with a roll-up brake to slow down the roll-up speed.</p>

Swing insect screen	
Opening / closing of the insect screen	Working range of insect screen
	
<p>Only handle or connecting profile should be used for opening and closing of insect screen to prevent net from damaging.</p> <p>⚠ It is forbidden to use the net to open the insect screen, as it may damage it.</p>	<p>Opening and closing of insect screen should be done with steady motion. It is not recommended to open it to an angle greater than 120°.</p> <p>⚠ Shaking of the insect screen wing may damage it.</p>

5. MAINTENANCE AND REPAIRS

! Do not attempt to alter or modify the product without authorization; otherwise your product warranty will be void and the product may become a hazard of injury or death. Have all repairs done by a qualified technical service provider of the vendor or its authorized reseller.

Repair	Cleaning
	
<p>Frequently inspect all visible parts of the insect screen for jamming and other types of damage. If any operating abnormality or damage is found, do not attempt to repair the insect screen on your own. Call an authorized professional technical service provider.</p>	<p>In order to ensure a long operating life, it is recommended to clean the net surface regularly. Use appropriate cleaning agents for cleaning.</p> <p>! Frequently clean the guide channels and the bottom rails of the insect screen from foreign objects and dirt.</p>

5.1. MAINTENANCE

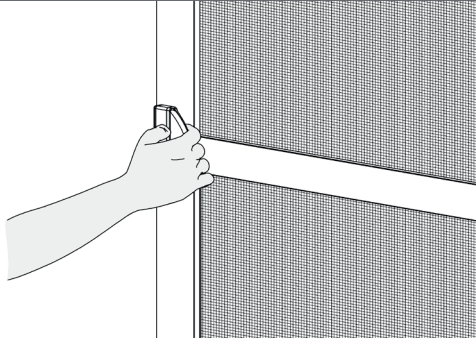
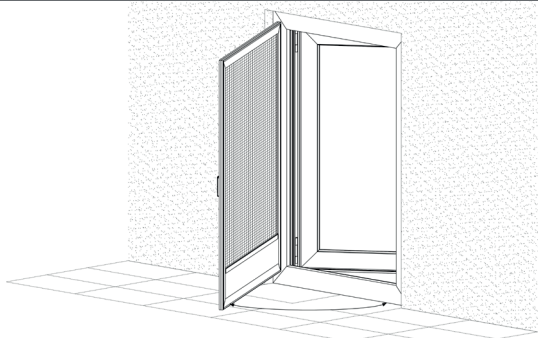

Due to the deposition of all kinds of dirt from the atmosphere on the net, which affects the aesthetics of the product and reduces the access of light to the rooms, it is recommended to clean it at least once a month.

Simple maintenance tasks can be performed by the insect screen user and do not require special skills. Maintenance includes functional testing of the insect screen rolling up and down movement.


Maintenance of the insect screen includes cleaning of all visible and accessible components, keeping the net clean, and removal of all dirt which might accumulate inside of the guid channels and rails. Follow the guidance below:

- Whenever the room in which the insect screen is installed is renovated or high dust concentration are present on site, try to shield off the insect screen from dirt.
- Do not clean with any sharp, rough, or abrasive tools or any abrasive or aggressive cleaning products.
- The insect screen mesh and aluminium profiles can be carefully vacuum cleaned or wiped clean with a cloth, some water and some mild, neutral detergent (clean at temperatures between 10°C and 25°C). Do not clean with pressure washers. Protect the insect screen from exposure to aggressive or corrosive chemicals, like potassium nitrate from building mortar, acids, alkalis (lye), and salts, and from mechanical damage. Strong cleaning products may cause corrosion and/or discolouration of the finish coating.
- The surface of the net should not be pushed or wiped vigorously with a cloth to avoid sliding the net and the seal holding it in the profile,
- Do not use any organic or inorganic cleaning products which contain esters, ketones, alcohols, aromatic chemicals, or chlorinated hydrocarbons, or any cleaning products the chemical composition of which is unclear.
- Remove greasy stains (from oil or soot), residues of adhesives, and silicone rubber with chemicals free from petroleum-derived aromatic hydrocarbons.

i The insect screen may appear wavy, especially if its surface area is large. This is natural and cannot be reasonably claimed as a product defect on warranty.

Swing insect screen	
Tensioning the hinges	Hinge maintenance
	
<p>Adjustment of the hinge tension might be necessary during use of swing insect screen. To do this, use a 6 mm Allen key. Insert the key in the upper part of the hinge. Increase the tension by turning it in the direction shown in the diagram.</p>	<p>In order to ensure long lasting, operation of the insect screen hinge it is recommended to lubricate of moving parts regularly. Use lubricants that do not absorb dirt.</p>
<p> Excessive spring tension in the hinge may result in its malfunction or damage.</p>	

5.2. REPAIRS


 Do not attempt unauthorized repair or modification of the insect screen structure or movement system. If the insect screen fails to work properly, any of its components requires replacement or the insect screen structure requires any modification, consult the vendor or its authorized reseller, since the relevant servicing must only be done by an authorized product installer.

The manufacturer will not be liable for:

- Incorrect tensioning of the net by improper use, including pushing the net out of the profile,
- Loss of aesthetic value by presence of dirt, damage from chemicals, etc.;
- Unauthorized attempts at repairing the insect screen tensioning system or structure;
- Failure of a cord by improper use;
- Damage of the movement system by overloading;
- Installation not in accordance with the intended use, e.g. in rooms with high humidity, near heat sources where the net deformation might occurs,
- Any alteration or repair by the buyer which renders the product damaged;
- Scratching of the finish coating of the product and damage to the insect screen caused during unpacking;
- Other types of damage caused by :
 - incorrect use of the product;
 - careless storage of the product and/or its overloading;
 - failure to comply with the OEM's installation manual;
 - force majeure, including (and not limited to) flooding of the installation site, presence of vermin or other animals, or exposure to high winds, rain, freezing temperatures, or snow. If there is a risk of any of these exposure types, protect the Venetian blind by keeping it open (fully raised).

5.3. TECHNICAL INSPECTION

To maintain the full performance and proper operation of the product, periodic technical inspection is recommended (to be done at least once a year). The main objective of technical inspection is to perform functional tests of the product, verify that its structural parts and electrical equipment are complete, in good repair and operational, adjust the movement components, and (if required), replace the parts worn during normal operation.

 Do not attempt any technical inspection without authorization; otherwise your product warranty will be void and the product may become a hazard of injury or death. Have all servicing done by a qualified technical service provider of the vendor or its authorized reseller. The product user is only authorized to perform simple maintenance tasks specified in Section "Maintenance" and regular visual inspections of the technical condition of the product.

 Systematic inspection of the product helps prevent premature failure.

The products should be maintained fully operational and clean to ensure that their operation remains safe to the health and life of the users and compliant with the intended use.

Technical inspection steps:

- Verify the product durability and quality of installation fastening;
- Verify that the insect screen opens and closes - doesn't apply to the fixed insect screen,
- Verify the durability and quality of all threaded and rivet fasteners;
- Test the functioning of the product's movement system components and inspect their technical condition;
- quality assessment of the net, profiles and seals
- Adjust and correct the foregoing parts and components if required;
- Replace all worn components / parts

△ Use genuine spare parts only. Do not use non-approved spare parts!

6. HAZARDS

The Aluprof insect screen is a product which, within the normal and reasonably foreseeable conditions of operation, poses no or negligible hazards acceptable for normal use and it is compliant with stringent requirements for the safety of human life and health.

Do not:

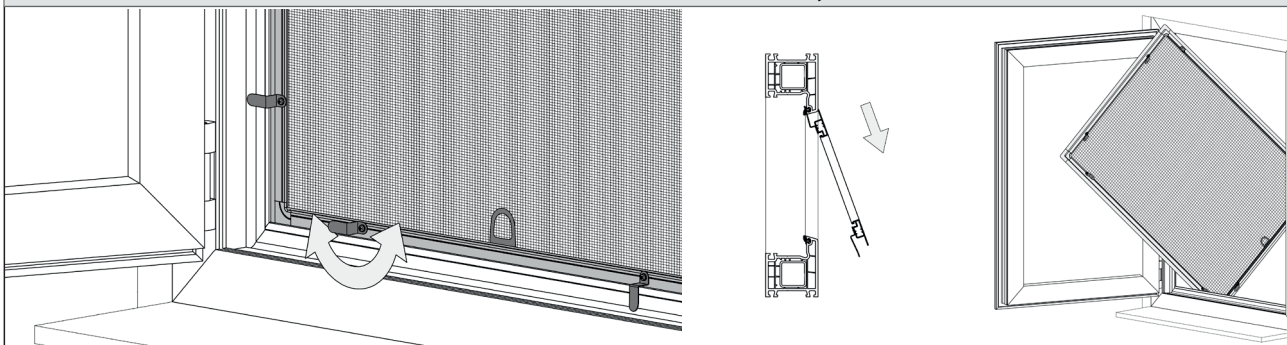
- using a damaged insect screen,
- modernization or disassembly by unqualified persons,
- pushing out the net and the seal holding it in the profile,
- Lean against the insect screen: you may fall out through the window!

7. REMOVAL AND END-OF-LIFE DISPOSAL

The removal procedure is the reverse of the installation procedure (refer to the Installation Manual).

To dispose of the product at the end of its operating life, it must be disassembled into component parts and the components parts must be segregated for recycling and other waste management types in compliance with the Polish Regulation of the Minister of Environment dated 2 January 2020 and concerning the Waste Catalogue (JoL. 2020.10, as amended).

Fixed insect screen - disassembly

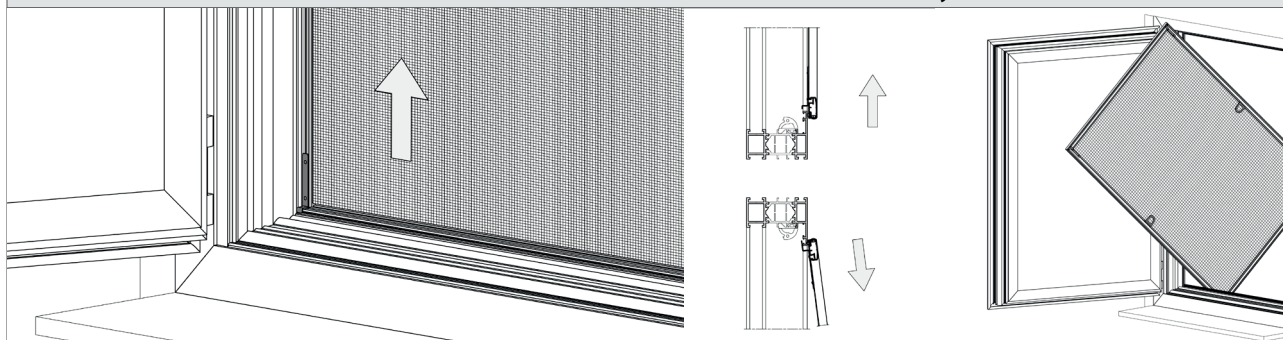


To dismantle the insect screen hold it by the mounting handle then turn the fasteners and gently push out.

Installing insect screen insert it from outside of the window. Holding the mounting handle, the top part of the insect screen must be fixed first and then bottom should be pulled to the window frame. The fasteners for mounting must be tightened.

△ When turning the fasteners, they should be loosened, to avoid injury and tighten again after turning.

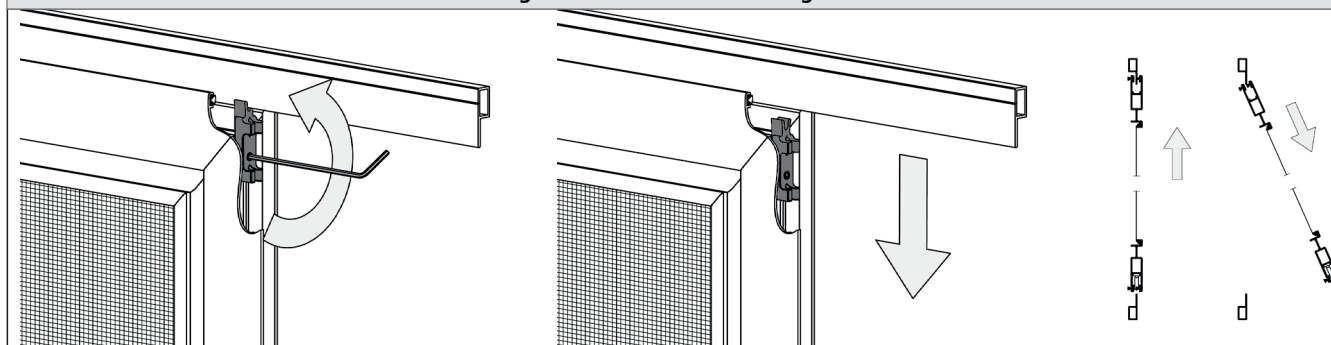
Fixed insect screen for aluminum windows - disassembly



To disassemble the screen, hold it by the fastening handles

When mounting the insect screen again, hold the mounting handles which are located on the sides, fix the top part of the insect screen first and then pull the bottom to the window frame and then embed the frame.

Sliding insect screen - dismantling



Before dismantling the insect screen, loosen the plastic blocking elements located in the upper and lower part of the wing. Then gently lift the wing up and pull it out of the frame.

To mount the insect screen wing, loosen the plastic blocking elements located in the upper and lower part of the wing and then slide the upper then lower part of the wing on the guide rollers and tighten the plastic locking element again.

i There is no need to dismantle the sliding insect screen with top rollers for winter time.

i The insect screen, which cannot be dismantled for the winter period, should not be used if icing is suspected.

8. PRODUCT MARKING

The insect screen has a product label placed in a visible place.

The label includes, among others, manufacturer's data, type number, number of the harmonized product standard and product properties. The CE marking on the label indicates that the product complies with all directives applicable to the product.

It is recommended to leave the product label undamaged so it can be read in the future.