



**Insect Screen Systems**

**Behind the Screen •**



Aluminium shading • Made to inspire

Leading industry in the design and production of aluminium roller shutter and insect screen systems for home and professional use, based in Greece.

**35** 

Year of establishment 1985:  
More than 35 years of specialization  
in the aluminum processing industry,  
based in Greece.

**65%** 

Export activity exceeding  
65% of the annual turnover.

**20** 

International presence in more than 20  
countries in Europe, Middle East, and Africa.



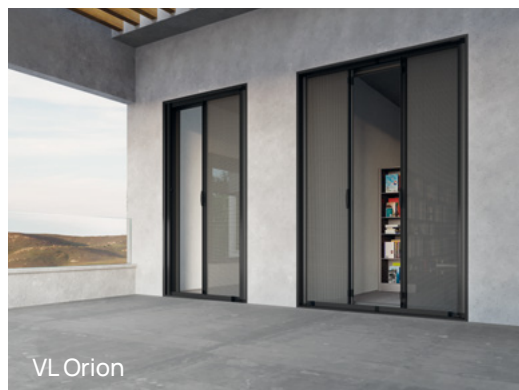
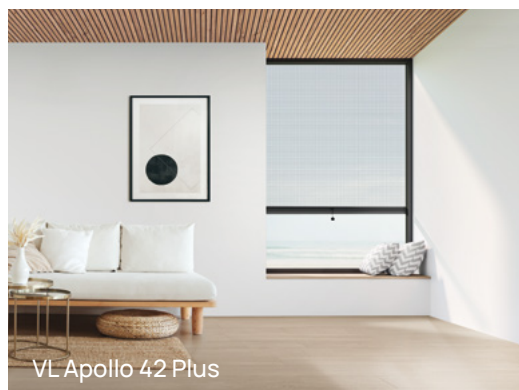
Certified products and innovations with  
international registrations (CE, EUIPO, HIPO).

**100** 

More than 100 employees.

**TÜV**  
AUSTRIA

Quality management system  
EN ISO 9001: 2015.  
Environmental management system  
ISO 14001: 2015 in progress.



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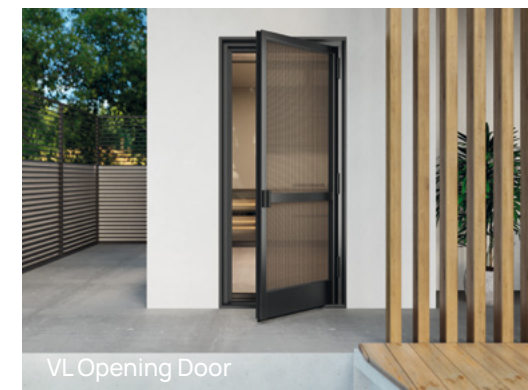
38....VL Orion

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## A Greek Industry of high dynamics

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Viomal is a leading producer of aluminum roller shutters, insect screen systems and other shading solutions, based in Greece.

The Company, since 1985, has a strong presence, both in the domestic market and abroad.

Its export activity exceeds 65% of the annual turnover, with a strong customer base in Europe, Middle East and Africa and international presence in more than 20 countries worldwide.

Subsidiary of ElvalHalcor, one of the world's leading industries in the production and processing of aluminum-copper products.



## Vision

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Committed to the principles of sustainable development, we aim at the production and distribution of top quality and high value-added products and services worldwide, while respecting our employees, customers, and the environment. Our goal is to build long-term partnerships with all stakeholders, through efficiency, reliability, and flexibility.

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## Facilities

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Viomal factory and headquarters are in Nea Artaki, Evia (80 km from Athens), covering an area of 12.000 m<sup>2</sup>, on a plot of 36.000 m<sup>2</sup>.

The Company's Branch and 2nd Distribution Center is in Kalochoi, Thessaloniki (6 km from the Athens-Thessaloniki National Road), to serve customers in Northern Greece and Balkans.

## Goals

- Development of excellent working relationships with our customers.
- Continuous improvement of our products and services, to provide value-added solutions and applications to every construction project.
- Use of the latest technology equipment and continuous improvement of our infrastructure, to perfectly serve our customers and improve our business operations.
- Advanced safety conditions for our employees.



- Creating an environment of cooperation, rich in opportunities for empowerment, development and evolution.
- Focus on the principles of sustainable development, with respect to our employees, society and the environment.
- Improvement of our reputation and position in the construction industry.

## Quality

At VIOMAL, our mission is to bring the most advanced and reliable solutions, in terms of quality, safety and saving energy, and actively contribute to the improvement of the quality of people's lives..

We have implemented a Quality Management System according to EN ISO 9001: 2015 and Environmental Management System according to ISO 14001: 2015 (in progress). Our aim is to continuously improve the efficiency and effectiveness of our operations and to provide our partners and employees with an excellent cooperation experience.

Most of the roller shutter and insect screen systems have certificates related to wind pressure, heat-permeability and waterproofing, CE certificates, trademark, design, and utility certificates.





# Departments & Management

## Products

- Aluminum polyurethane slats
- Aluminum extruded slats
- Roller shutter boxes with polyurethane
- Roller shutter boxes for external installation
- Aluminum extruded boxes
- Roller shutter axes and accessories
- Insect Screen systems for doors and windows
- Production of pleated net material
- Vertical shading systems
- Pergola systems
- Automation systems

The raw material to produce aluminum roller shutters is the painted aluminum rolls produced by Elval, subsidiary of ElvalHalcor Group of Companies.

To serve its customers in Greece and abroad, Viomal operates two organized distribution centers in Evia and Thessaloniki, 3,000 sq.m. and 1,000 sq.m. respectively.



# 1

Vertical production of pleated and classical insect screen systems including the pleated net material production.

# 2

Vertical production of roller shutter slats and boxes with polyurethane, for high thermal insulation.

# 3

Investments in new production lines to increase capacity of perforated aluminum roller shutter slats and vertical shading systems.

## R&D

The in-house Research and Development department designs innovative aluminum systems for residential and commercial applications:

- From the idea creation to product design.
- Optimization of the product portfolio.
- 3D printing and modeling, with the use of the latest technology equipment.
- Laboratory product testing at ELKEME (Research Center of the ElvalHalcor Group of companies) for wind pressure, waterproofing and safety certifications.
- Product certifications and registrations, according to international standards.

## Electrostatic painting unit

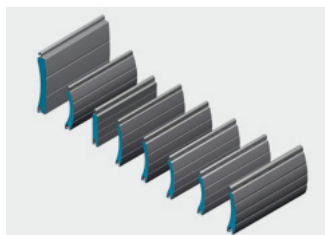
Viomal operates a horizontal electrostatic painting unit to meet the growing demand for architectural applications in a variety of color shades and finishes.

Possibility of painting aluminum roller shutters and insect screen profiles in all available RAL, RAL MAT or special color, anodizing and wood imitation, based on customer and specifications. The colors remain unchanged from sunlight and weather conditions.

## Products

Viomal, responding to the latest manufacturing trends worldwide and the growing needs of its customers, is constantly investing in the design and production of high quality and design products.

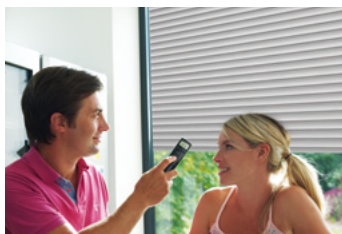
Specializes in the production of aluminum roller shutter, insect screens and shading systems for housing and professional use, as well as complementary products and accessories, according to the strictest European standards.



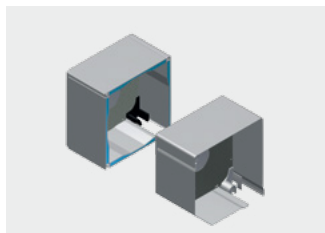
Aluminum roller shutter slats with polyurethane.



Production of pleated net material.



Aluminum roller shutter systems for doors, windows, and garage doors.



Aluminum boxes  
- with polyurethane.  
- for external installation.



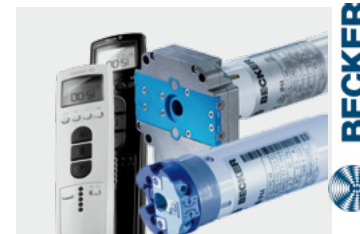
Pleated and classical insect screen systems for doors and windows.



Extruded aluminum roller shutter slats.



Octagonal galvanized axes & accessories for roller shutters.



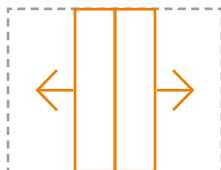
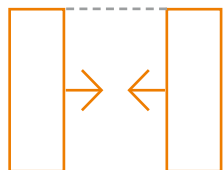
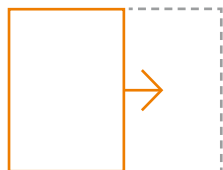
Becker electric mechanisms & automation systems for roller shutters, awnings, and garage doors.

## Pleated insect screen systems

The ideal combination of innovation,  
functionality and aesthetics

## Pleated insect screen systems

- VLPhoenix
- VLPlisse



## The ideal combination of innovation, functionality and aesthetics

Horizontal movement insect screen system, with waterproof pleated net and bottom rail, for windows and large doors. The innovative insect screen, certified by the Hellenic Intellectual Property Organization (HIPO), is characterized by the ergonomic design of profiles and components, which ensures high aesthetics and durability in the long run.

Awarded with the Manufacturing Excellence Award 2021, in the category "Most innovative Product".







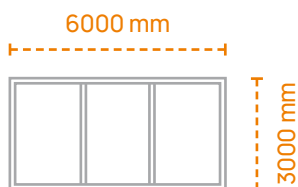
### Minimal aesthetics

Straight-line profiles with overall width of 25 mm, which allow for installation in both new constructions and in renovation for the replacement of old systems.



### Maximum brightness

Maximum brightness and visibility through the perforated, waterproof pleated net, made of 100% polyester in black and gray color, with a pleat height of 18 mm.



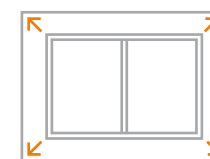
### Big openings

Ideal solution for large openings - up to 3 meters high and up to 6 meters wide (for a two-leaf typology).



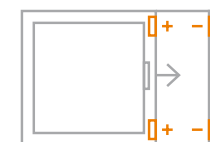
### Innovation

Flawless functionality, long life span and durability, through the innovative design of profiles and accessories.



### Installation

Possibility for easy, fast, and economical installation without tools and holes.



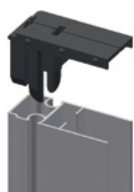
### Closing mechanism

Manual operation with magnet.





1



- Upper cap
- Handle profile

### Reduced noise while using

Specially designed upper cap with projections for better application and noise avoidance from tuning.



2



Clip cap for the upper and bottom guide

### Installation without tools & holes

Special clip caps, integrated in the upper and bottom rail, that allow for a quick and easy installation without tools and holes. The caps ensure proper leveling and excellent operation of the insect screen.



3,4



Magnets

### Aesthetics & functionality

Magnets integrated into the upper & bottom caps of both handle and facing profiles, invisible to the end user, for better aesthetics and functionality in the long run.



5



Aluminum lower guide

### Resistance in weather conditions

The bottom aluminum guide with 10mm height, allows for bigger penetration of the net and makes it difficult to exit the guide. The guide has intersecting water outlet exits on both sides, to enable water drainage.



6



4mm 10mm

Two knob options

### Easy opening & closing

Two innovative knob options, for better fitting of the fingers when opening and closing the insect screen, buckle to the handle profile without screwing



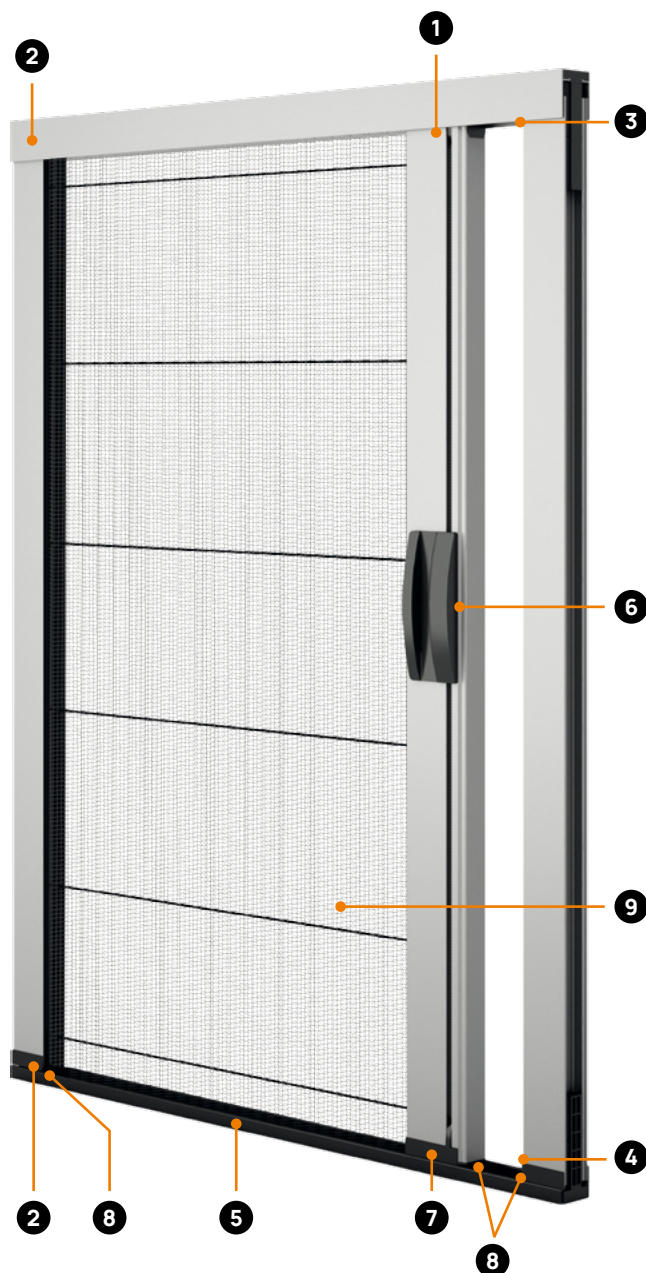
7



Bottom handle cap

### Optimal Movement

Through the bottom handle cap, attached to the bottom guide at both edges. There is a small gap between the bottom side of the cap and the guide, ensuring optimal sliding without wheels and minimal friction of the horizontal cord.



8



Bottom cap  
of vertical  
profiles

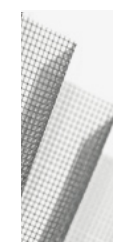
## Long-term durability

Bottom profile caps that buckle to the bottom horizontal guide, keeping the frame rigid & stable, so that the insect screen remains in the ideal operating position.

Ergonomically designed to prevent the net's lifting, achieving the invisible ride of the cords to the right and left alongside the screen, making it unnecessary to use substitute cord types.



9



Pleated  
polyester net  
produced by  
VIOMAL

## Waterproof and durable net

Pleated polyester net produced by VIOMAL in black and gray color. Perforated, with pleat height 18mm, for greater brightness & better visibility. Fully waterproof that does not retain water after rain or cleaning, keeping its shape unchanged over time, certified by independent bodies.

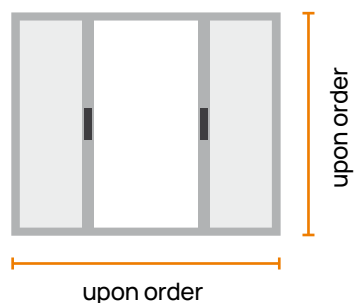
The special knitting and the high resistance to ultraviolet radiation enhance its durability.



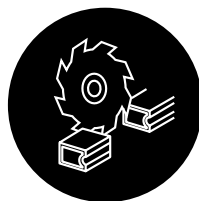
## 1. Dimensions upon request



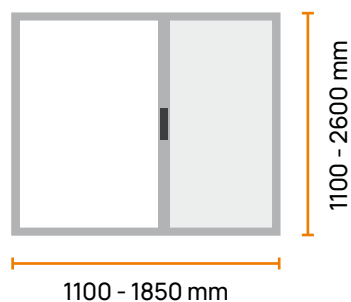
The insect screen system is available upon request in the desired dimension and color shade of the customer for the following typologies: single-leaf, double-leaf and reversible.



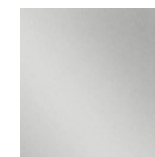
## 2. VLPhoenix single – leaf KIT



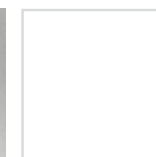
The VLPhoenix single-leaf typology is available in standard dimensions KIT / packages. Available KIT width from 1100 mm to 1850 mm and height from 1100 mm to 2600 mm per 25cm, and possibility of cutting 25 cm in each dimension.



## Available KIT colors in stock



Mill-finish



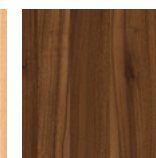
RAL 9010



RAL 8014



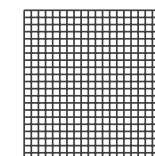
Golden oak



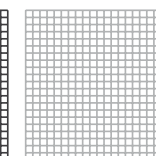
Nussbaum

Possibility of painting in any RAL, RAL Mat or special colors, wood imitation and anodizing upon request.

## Net materia

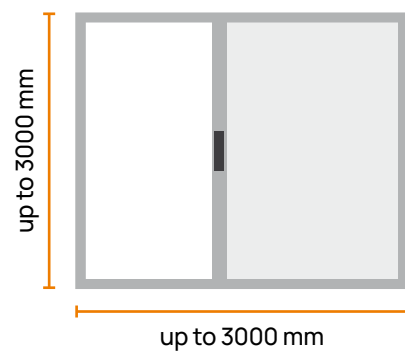


Black

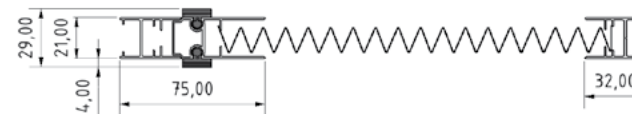


Gray

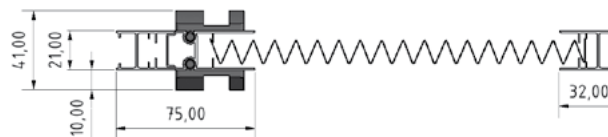
## Single leaf



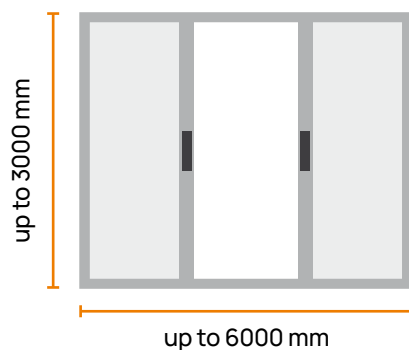
Knob 4mm



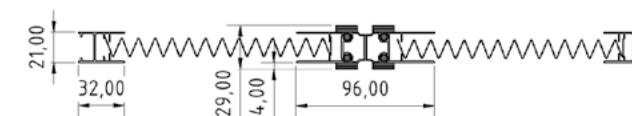
Knob 10mm



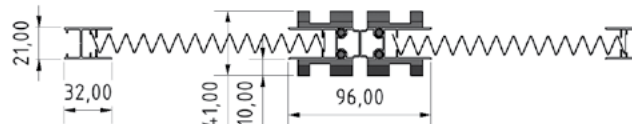
## Double leaf



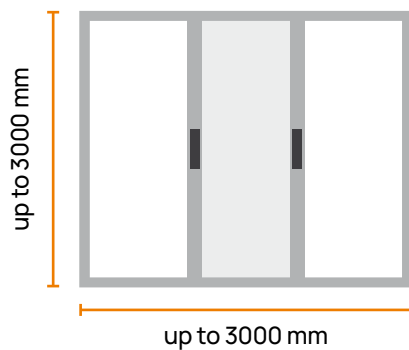
Knob 4mm



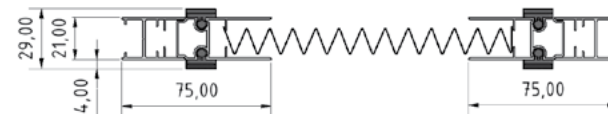
Knob 10mm



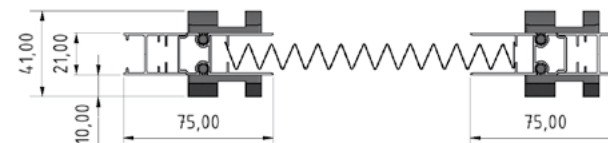
## Reversible



Knob 4mm

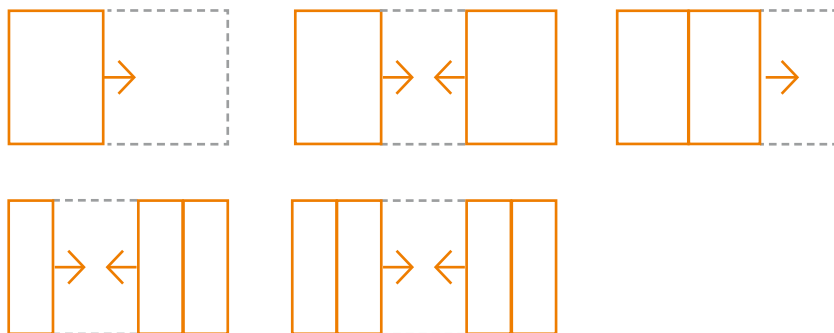


Knob 10mm





# VLPlisse

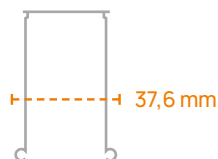


## Affordable luxury and high aesthetics for any space

High quality horizontal movement insect screen system, with waterproof pleated net material and plastic chain, in the upper and bottom side. It is ergonomically designed for large opening constructions and available in single-leaf, double-leaf, three-leaf and four-leaf typologies. Distinguished for impeccable functionality over time.







### Minimal aesthetics

With a total profile width of 37,6mm and straight lines, it is suitable for both new constructions and replacement of old systems.



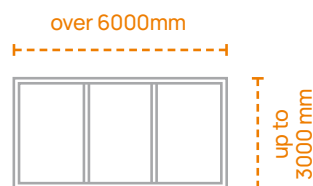
### Innovation

The movement with the use of a plastic chain in the upper and bottom side and the horizontal cords of the insect screen, provide resistance to weather conditions and daily use.



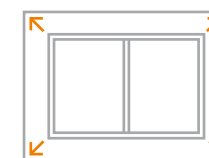
### Maximum brightness

Maximum brightness and visibility through the perforated, waterproof pleated net material made of 100% polyester, in black and gray color, with a pleat height of 18mm.



### Large openings

Ideal solution for large openings over 6 meters wide. By joining one leaf after another, a trailed insect screen is constructed.



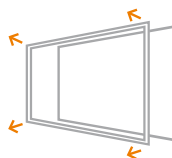
### Installation

Possibility of installation on not aligned walls, with the use of facing profiles and special clips, which cover any construction imperfection.



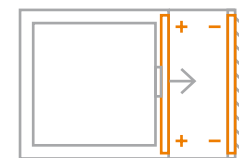
## Comfortable passage

The use of a plastic chain instead of a bottom guide makes the passing-through much easier for children, elderly people, and people with special needs. In addition, the chain facilitates the cleaning and the water drainage.



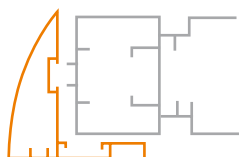
## Maintenance & storage

Thanks to the plastic clips, VL Plisse insect screen can be removed easily and quickly, to be cleaned or stored during winter.



## Closing mechanism

Manual operation with magnet, without return spring, ensuring gentle opening and closing of the leaf, at the desired level.



## External mounting frame

The external mounting frame of VL Plisse insect screen is used in openings where there is no space to install the system inside the opening. It is suggested to use connection angles, to match the 45° angled profiles.





## Dimensions upon request



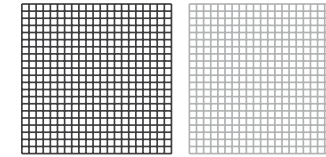
The insect screen system is available upon request in the desired dimension and color shade of the customer.

## Colors



Possibility of painting at any RAL, RAL Mat or special color, wood imitation and anodizing upon request.

## Net material



Black

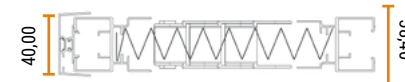
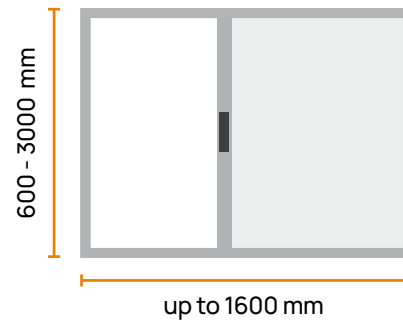
Gray

\* For the construction of VLPlisse insect screen, the height must be at least 20% bigger than the width of the final dimension.



## One - leaf

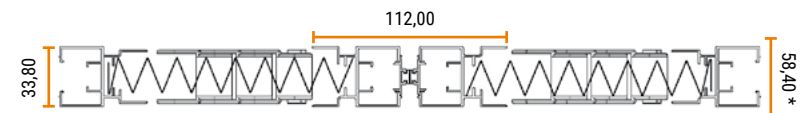
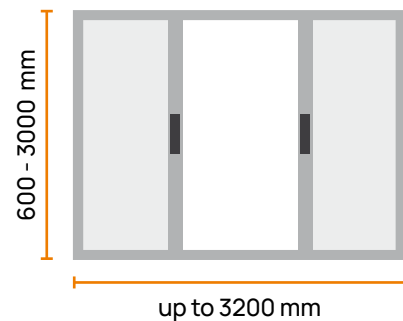
with magnet closure



\* Overall width with knobs

## Two-leaf

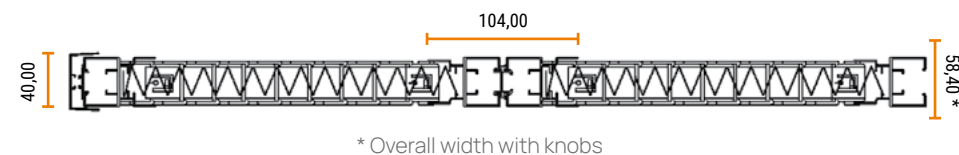
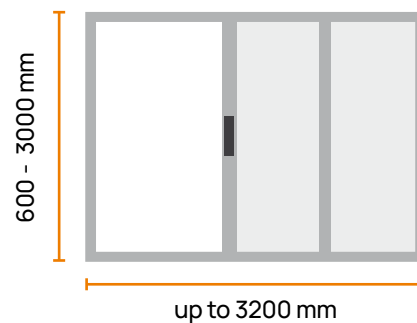
central closure with magnet in the middle



\* Overall width with knobs

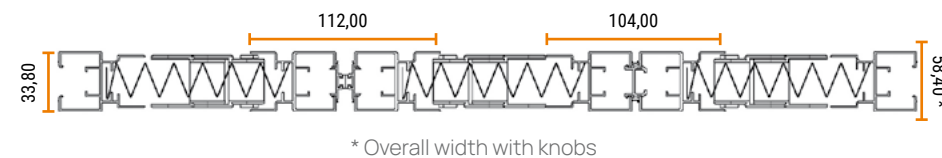
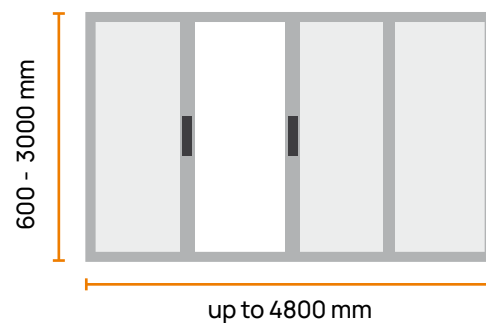
## Two-leaf trailed

with magnet closure & closing facing profile



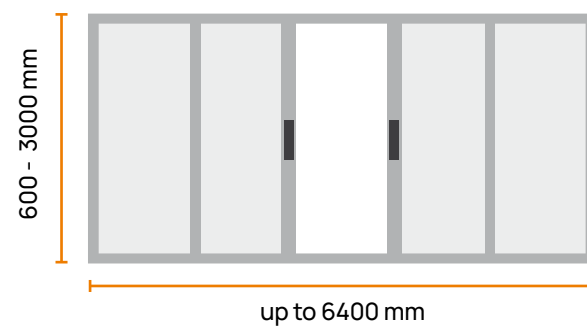
## Three-leaf

trailed with magnet closure



## Four-leaf

central closure with magnet in the middle

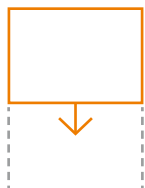


# Classical insect screen systems

Practicality. Functionality. Comfort

## Classical insect screen systems

- VL Apollo 42
- VL Apollo 42 Plus
- VL Apollo 38
- VL Orion
- VL Opening Door
- VL Plato
- VL Flex DIY

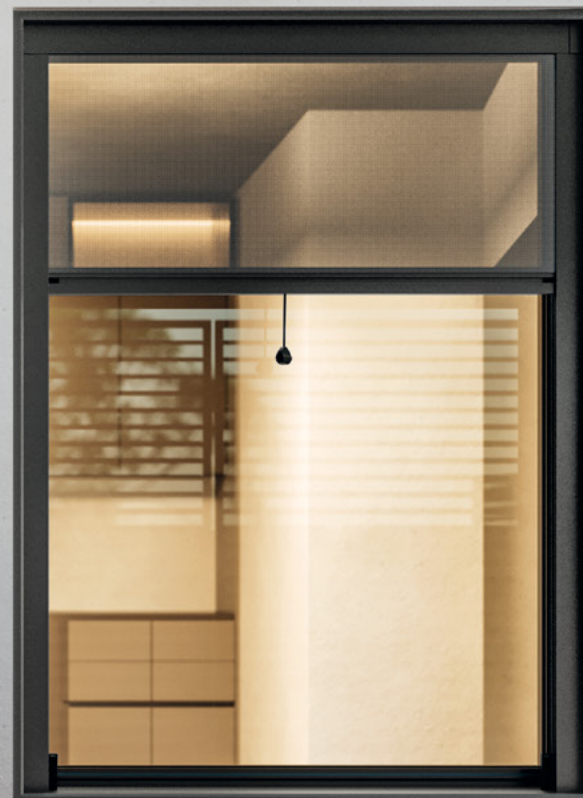


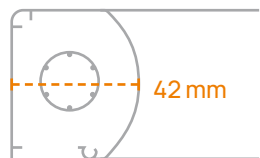
## Practicality, Functionality, Comfort

Vertical insect screen system for doors and windows up to 2,4 meters high, designed to offer functionality and practicality in everyday life.

VL Apollo 42mm combines a 42mm box, with ergonomically designed closing system and accessories. Ideal for easy installation even in not aligned walls, along with a comfortable and quiet operation.

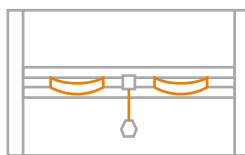






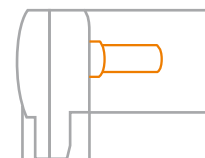
### Minimal aesthetics

With a 42mm box, it is the ideal solution for doors and windows up to 2.4 meters high, for new constructions and renovations.



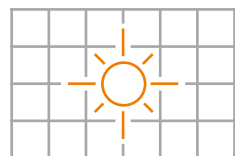
### Ergonomic handles

The practical handles on the inside and outside of the insect screen (2 + 2) and the external cord offer comfort when opening and closing. The guides are equipped with either simple or reinforced brush for better sealing.



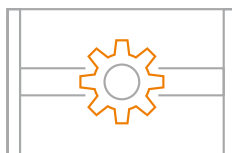
### Closing mechanism

The optional brake function allows the insect screen to move freely in the descent and reduce the ascent speed, ensuring safe and quiet movement. The brake mechanism is easily mounted on the inner plastic cap of the box.



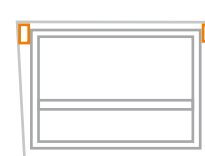
### Maximum brightness

Maximum brightness and visibility through the perforated gray Stiff net material.



### Functionality

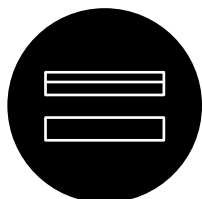
The internal plastic caps buckle on the box, in four spots, ensuring that the desired opening of 22mm is always maintained and the closing of the box causing system malfunctions is avoided. Also, the installer can screw the upper cap on the box, for a more stable installation.



### Quick installation

The use of telescopic caps allows for cutting of the insect screen, up to 10mm less than the opening dimension, in case of wrong cutting or angled walls. In addition, the caps ensure an easy and quick installation of the system even by one person, as they are placed on both sides of the opening and the box buckles on them.

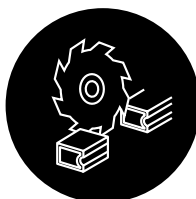
## 1. 6-meter Bars



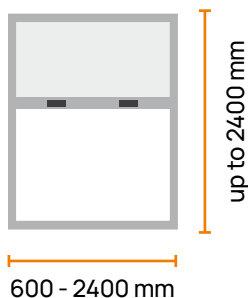
The insect screen system is available in 6m bars and sets of accessories.



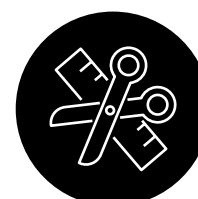
## 2. VL Apollo 42mm KIT



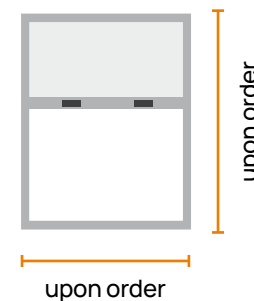
VL Apollo 42mm single-leaf system is available in standard dimensions of a KIT.



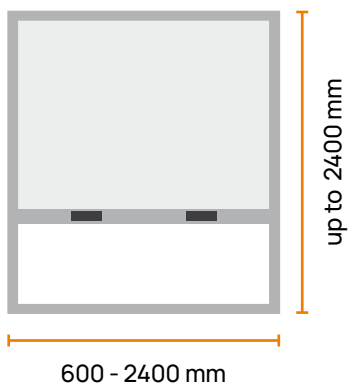
## 3. Dimensions upon request



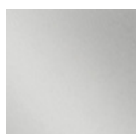
VL Apollo 42mm single-leaf system can be produced in the desired dimensions of the customer, upon request.



## Single leaf



## Available Colors in stock



Mill-finish



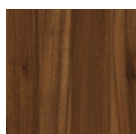
RAL 9010



RAL 8014



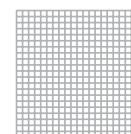
Golden oak



Nussbaum

Possibility of painting VL Apollo 42mm in any RAL, RAL Mat or special color, wood imitation, and anodizing, upon request.

## Net material

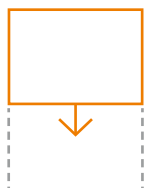


Gray



# VLApollo

42mm PLUS

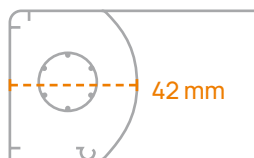


## Maximum comfort, minimal aesthetics

Vertical movement system, ergonomically designed to offer daily functionality and comfort. With a box 42mm wide, it is the ideal solution in window frame constructions where there is no required space for installing an insect screen system. Suitable for external installation and distinguished for a quiet and reliable operation in the long run.

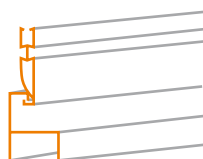






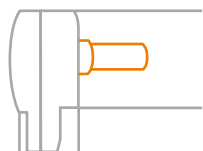
### Minimal aesthetics

With a box width of just 42 mm, it is the ideal solution for large doors and windows up to 2.4 meters high.



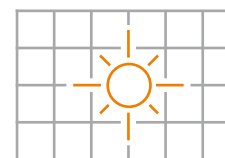
### Ergonomic design

Discreet knob, integrated in the thin, straight handle profile, with a V-shaped design to attach to the lower guide.



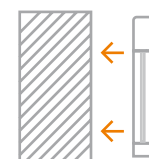
### Closing mechanism

The brake function allows the insect screen to move freely in the descent and reduce the ascent speed, ensuring a safe and quiet movement. The brake mechanism can be easily mounted on the inner plastic cap of the system.



### Maximum brightness

Maximum brightness and visibility through the perforated gray Stiff net material.



### External installation

The system is installed outside the window frame, being the ideal solution for new or existing constructions, where there is no required space for an insect screen installation.



### Installation

The use of telescopic caps allows for an opening up to 10 mm in case of wrong cutting or angled wall, covering any imperfection.

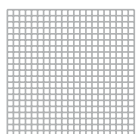
## Colors immediately available



Mill-finish    RAL 9010    RAL 8014

Possibility of painting VL Apollo 42mm Plus in any RAL, RAL Mat or special color, anodizing, and wood imitation, upon request.

## Net material



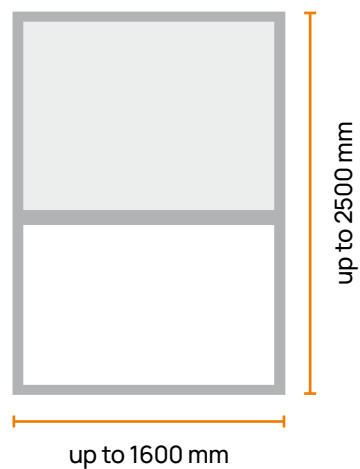
Gray

## 6-meter Bars

The insect screen system is available in 6m bars and sets of accessories



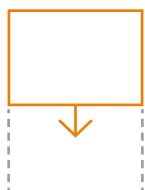
## Single leaf





# VL Apollo

38mm



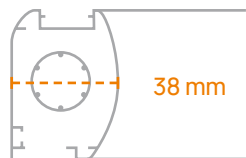
## Simplicity that makes the difference

Vertical movement insect screen system for doors and windows up to 2,4 meters high, designed to offer functionality and comfort.

VL Apollo 38mm, with a 38mm box, is equipped with an operation system and ergonomic components, which allow for an easy installation, safety will using the system and ensure a comfortable opening and closing in the long run.

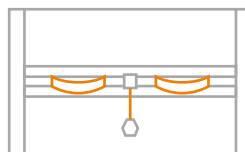






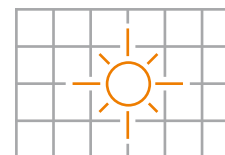
### Minimal aesthetics

With a box of 38mm width, it is the ideal solution for doors and large windows up to 2,4 meters high, for new and existing constructions.



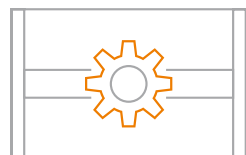
### Ergonomic accessories

The practical handles on the inside and outside of the screen (2 + 2) and the external cord, offer comfort when opening and closing the system. The guides are equipped with either a simple or a reinforced brush for better sealing.



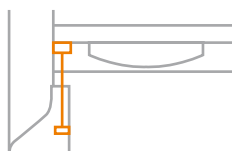
### Maximum brightness

Maximum brightness and visibility through the perforated gray Stiff net material.



### Functionality

The internal plastic caps buckle on the box, in four spots, ensuring that the desired opening of 22mm is always maintained and the closing of the box causing system malfunctions is avoided.



### Closing mechanism

The closing of the insect screen is achieved with a regulator, where the hook that holds the bottom frame is in a conical frame & holds it safely.

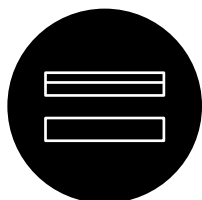


### Quick installation

Mounting options via:

- Telescopic caps that allow for less cutting of the insect screen up to 10mm than the opening dimension, in case of wrong cutting or angled wall.
- Plastic mounting clips that are included in the accessories' kit, are screwed at the top of the installation area and the insect screen box buckles on them.

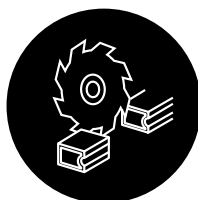
### 1. 6-meter Bars



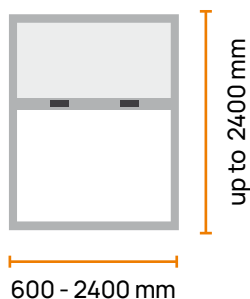
The insect screen system is available in 6m bars and sets of accessories



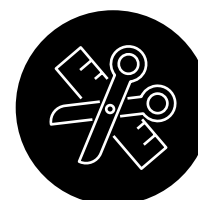
### 2. VL Apollo 38mm KIT



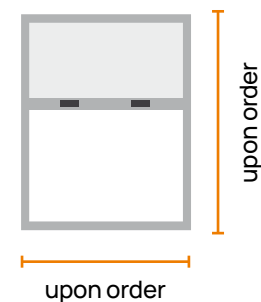
VL Apollo 38mm single-leaf insect screen system is available in standard dimensions



### 3. Dimensions upon request



VL Apollo 38mm single-leaf insect screen system is available in the desired dimension of the customer upon request.



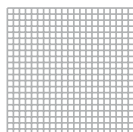
### Colors immediately available



Mill-finish RAL 9010 RAL 8014

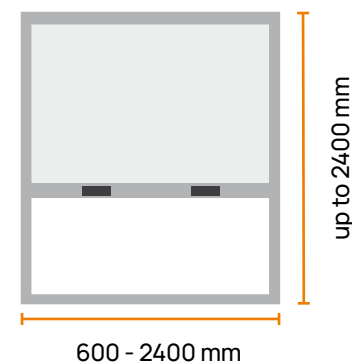
Possibility of painting VL Apollo 38mm in any RAL, RAL Mat or special color, anodizing, and wood imitation, upon request.

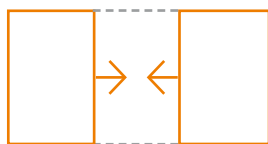
### Net material



Gray

### Single leaf



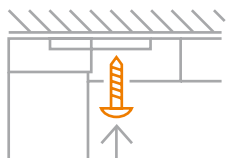


## With one ...horizontal move

Horizontal movement insect screen for doors and windows up to 2,6 meters high. Designed to cover every opening and construction requirement of a single-leaf or double-leaf system, with complete safety and perfect functionality; once and for ever. Thanks to its advantages concerning ease of installation and use and through its innovative design, the horizontal movement system can be considered a reliable solution, even for large openings.

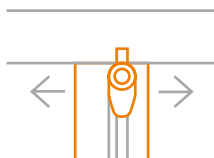






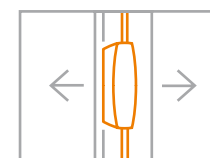
## Quick Installation

VL Orion insect screen is equipped with two plastic retaining clips, ensuring an easy and quick installation even by one person, only by screwing the clips to the top and bottom side of the opening and then buckling the insect screen box.



## Functionality

The "T" shaped handle profile and the self-lubricating alignment wheels on the upper and lower side of the moving part of the insect screen are designed to secure parallelism, quiet movement, and smooth operation in the long run. The wheels work perfectly with the caps of the moving part since the conical shape of the cap holds them firmly and keeps them in absolute contact with the guide. The 80cm long return spring ensures smooth operation and keeps the insect screen stretched during movement.



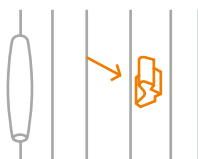
## Ergonomic knobs

The knobs are placed on both sides of the handle profile (inside & outside), offering comfort when opening and closing the system. The modern design and materials of the knobs create a perfect result.



## Comfortable pass-through

The use of a tip-up bottom guide with a height of 29mm, allows for the cleaning of the opening at the bottom, as well as for a smooth passage of the elderly and the people with special needs.



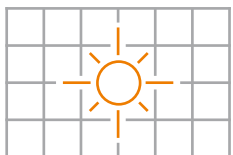
## Closing mechanism

- The system has two locking options:
- Vertical magnet integrated and alongside the handle & facing profiles.
  - Brush on the handle and facing profiles.
- The lock of the insect screen is secured with special hooks that are placed on the facing profile.



## Minimal aesthetics

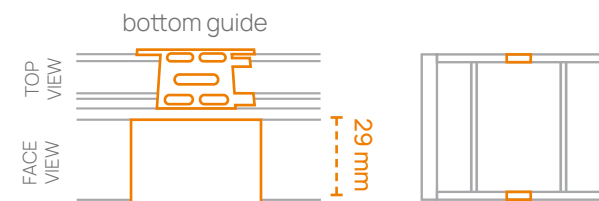
With a box of 38mm width, VL Orion is the ideal solution for doors and large windows up to 2,6 meters high, for new and existing constructions.



## Maximum brightness

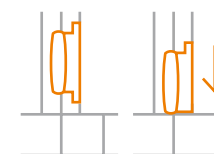
Maximum brightness and visibility through the perforated gray Stiff net material.

## Extra Benefits of the Double-Leaf VL Orion



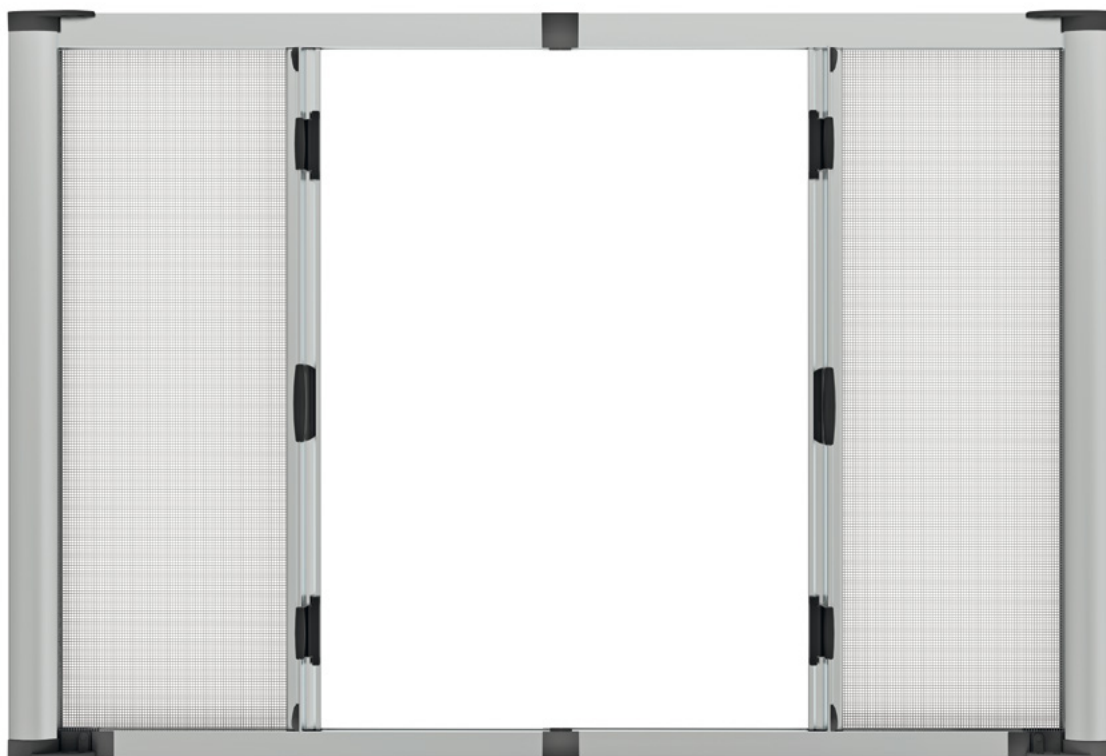
## Ergonomics

The middle plastic support base of the lower guides is durable and much lower in height, to further facilitate the passage and harmonize with the height of the guides. The upper base is designed to install the one guide at first and then to install the second guide very easily.

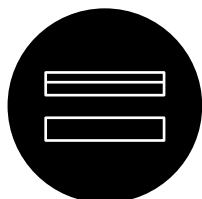


## Security

Both leaves are equipped with discreet security locks in both upper and bottom side. By adding the guide support plastics, the insect screen leaves can lock and can remain open, either one by one or both together.



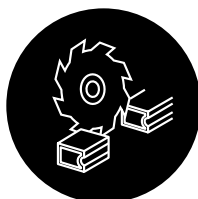
### 1. 4,6 - meter Bars



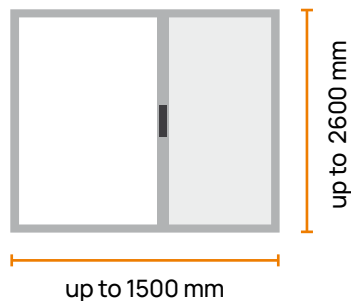
The insect screen system is available in 4,6m bars and sets of accessories



### 2. VL Orion KIT



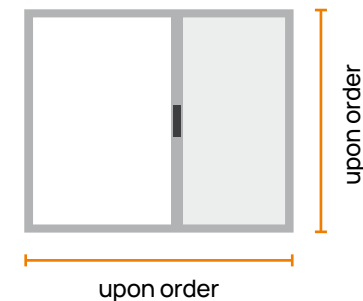
The VL Orion single – leaf insect screen system is available in standard dimensions.



### 3. Dimensions upon request



VL Orion screen single & double – leaf insect screen system is available in the desired dimension of the customer upon request.



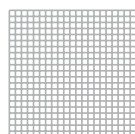
### Colors immediately available



Mill-finish RAL 9010 RAL 8014

Possibility of painting VL Apollo 38mm in any RAL, RAL Mat or special color, anodizing, and wood imitation upon request.

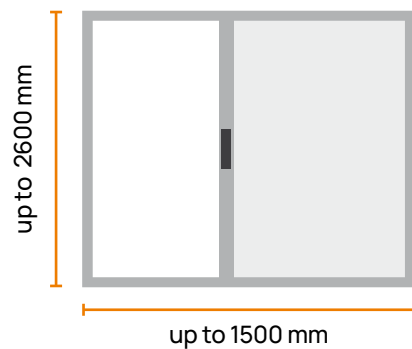
### Net material



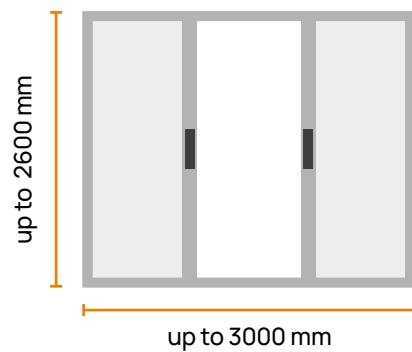
Gray



Single leaf

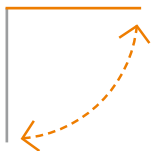


Double leaf





# VL Opening Door

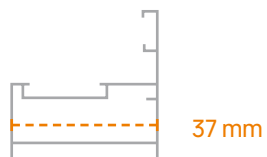


## Innovation & Functionality

The new opening door of Viomal, is ideal for kitchen and other opening doors. The enhanced profiles of the door offer durability in the construction and high functionality. Available in single-leaf and double-leaf typologies in custom dimensions and at any requested color shade, to be combined with the existing window frames. VL Opening Door is CE certified.

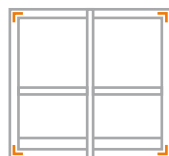






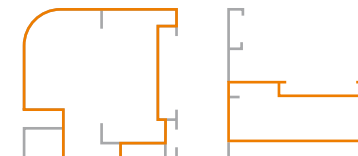
## Minimal aesthetics

Thanks to the 37mm total width of the frame profile, which allows the installation of new or existing kitchen door constructions.



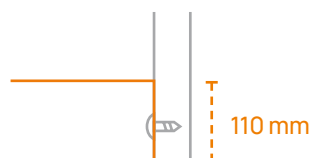
## Fast construction

Easy and fast construction of the door, thanks to the connection angles in both frame and door leaf, without the use of special equipment.



## Robustness

The reinforced chamber profiles in both frame and door leaf, create robustness and high durability in the long run.



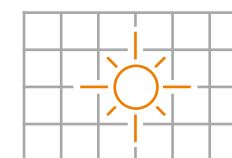
## Quality

The kick plate of 11cm height at the bottom of the door provides durability and secures a safe operation, even after a strong push. The kick plate is integrated in the pre-drilled door profiles, with screws in both sides.



## Secure closure

Return hinges ensure the door's closing, even in strong wind. The vertical magnet across the height of the door and the ergonomic brush at the bottom of the door leaf, provide a secure closure.



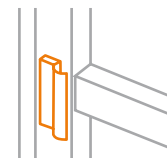
## Maximum brightness

Through the perforated gray net material. One can install insect screen or net material on the door, while having alternative options such as Soft, PET or aluminum net material.



### Profile design

The 3mm gutter in the profiles of the door leaf, middle profile and kick plate allows for the installation of alternative materials other than net, such as metal sheet, plexiglass, bond, etc.



### Ergonomic handles

The knob design provides greater comfort when opening and closing the door. The single - leaf opening door has two knobs, internally and externally.

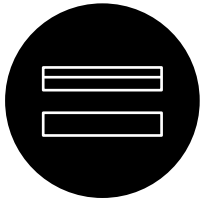


### Innovation

Plastic "T" shaped buckle instead of a rubber, that holds the insect screen tightly and allows for a quick door construction.

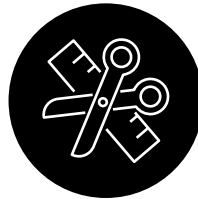


## 1. 6-meter Bars

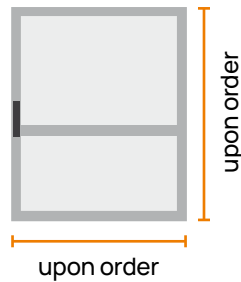


The insect screen system is available in 6m bars.

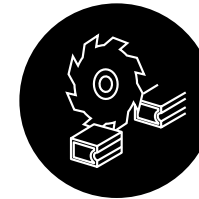
## 2. Dimensions upon request



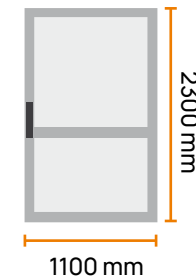
VL Opening Door system is available in the desired dimension of the customer, for single, double, or asymmetric door typologies.



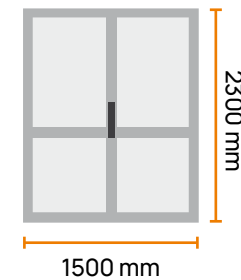
## 3. VL Opening Door KIT



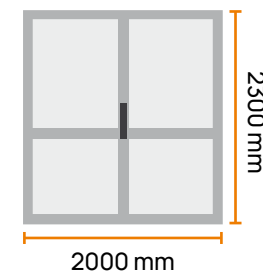
VL Opening Door system is available in single and double door KIT.



Single-leaf KIT

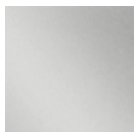


Double-leaf KIT A



Double-leaf KIT B

## Colors immediately available



Mill-finish



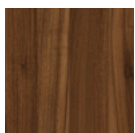
RAL 9010



RAL 8014



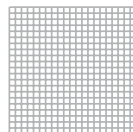
Golden oak



Nussbaum

Possibility of painting VL Opening Door in any RAL, RAL Mat or special color, anodizing, and wood imitation, upon request.

## Net material

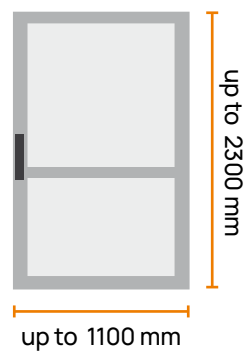


Gray

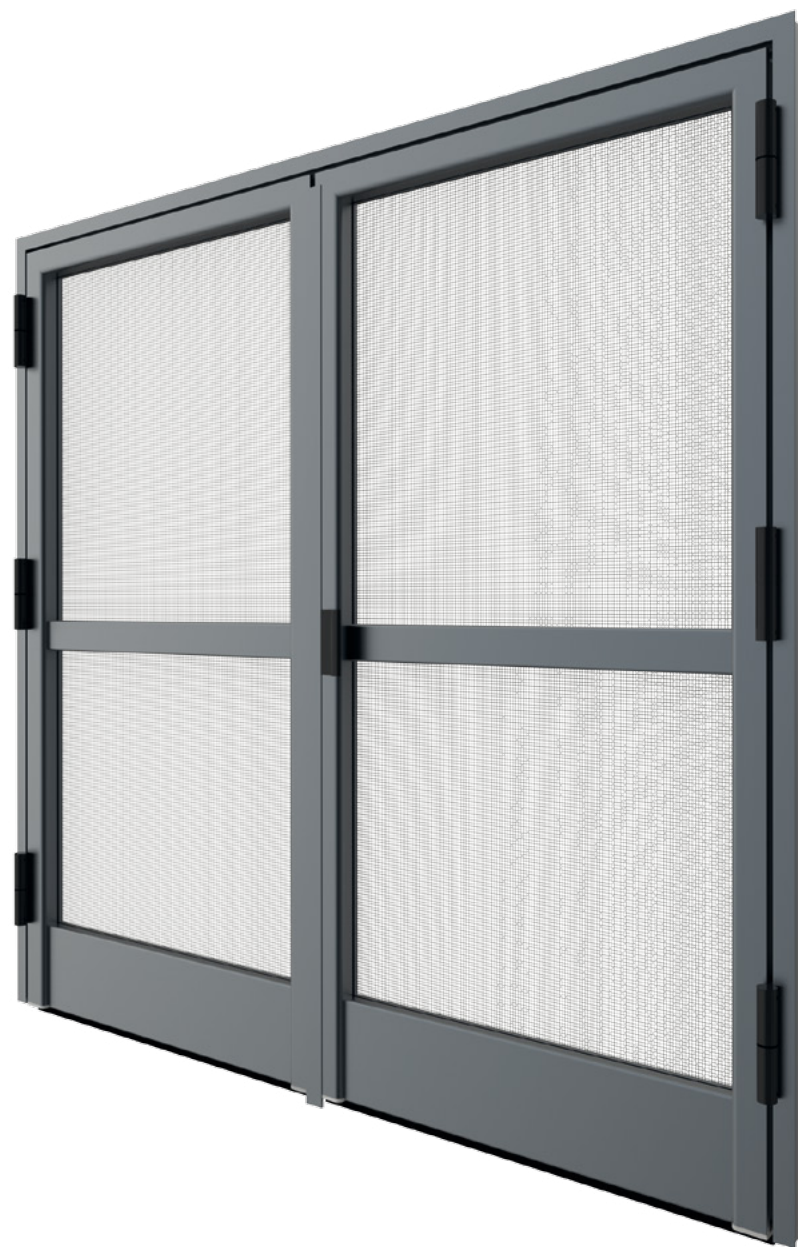
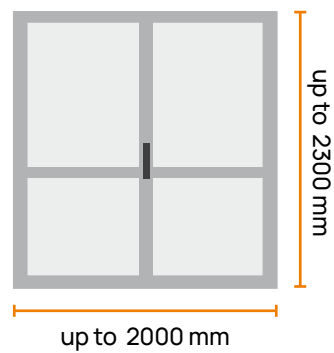
Options: PET, SOFT & Aluminium



Single leaf



Double leaf

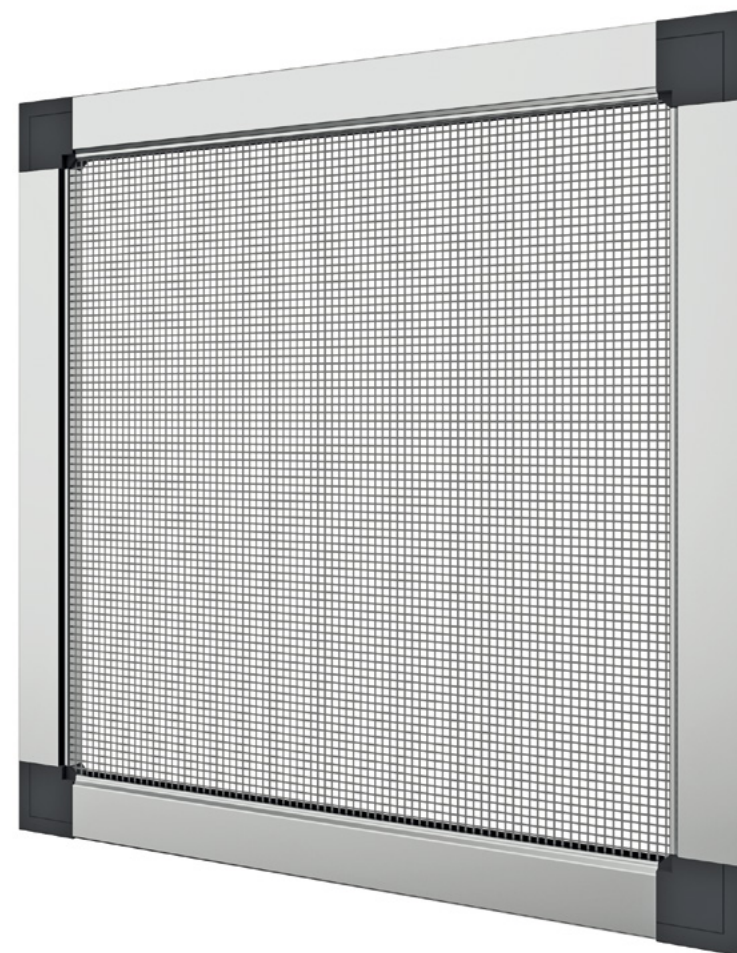


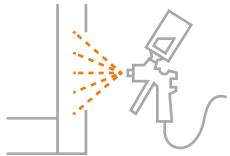


## Stability & Economy

VL Plato fixed frame is a flexible system, suitable for windows where the opening is not required, such as in the bathroom or in windows without external access.

VL Plato frame, is suitable for external installation – outside the window frame – with two options. One option is to install it as a fixed frame on the wall opening, tangent to the wall sides and fixed with screws. Another option is the construction of a detachable frame with the use of magnets. The system provides great durability and proper sealing.





## Minimal aesthetics

The aluminium profiles of the fixed frame VL Plato can be painted at the desired color shade, to match the window frame finish. The frame is completed with the use of white or black connection angles, for light or dark color construction respectively.



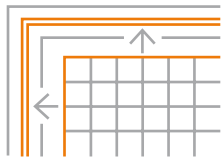
## Ergonomic installation

Option for external, permanent installation on the wall sides, with the use of plastic mounting accessories, without making holes and screws on the window frame.



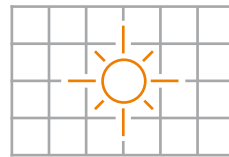
## Detachable insect screen frame

Using magnets that are screwed on the aluminium window frame – externally. In combination with the metal elements of the connection angles, VL Plato frame can be detached for cleaning or even storage during winter



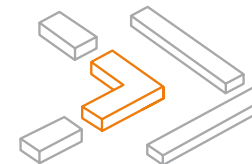
## Robustness

The net material is fixed on the frame using a retaining rubber, applied in the 7mm gutter of the profile and holds it in place.



## Maximum brightness

Through the perforated, durable Fiberglass gray net material, choosing between Soft or Aluminum net.

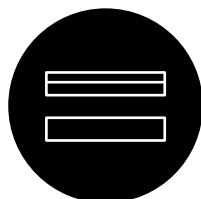


## Fast construction

Easy and fast construction of the fixed frame, thanks to the 90° straight cutting of the profiles. Connection of the profiles is completed with the use of plastic corners, without requiring mechanical equipment.

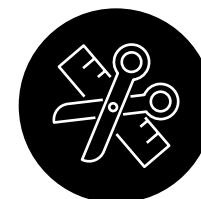


## 1. 6-meter Bars

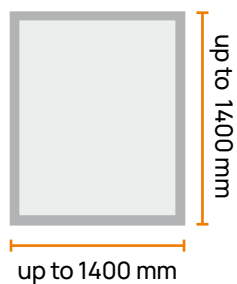
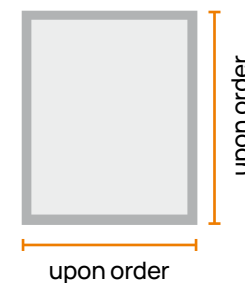


VL Plato system is available in 6m bars and accessory sets.

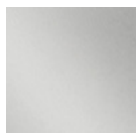
## 2. Dimensions upon request



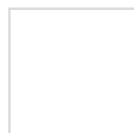
VL Plato system is available in the desired fixed frame dimension of the customer, upon request.



## Colors immediately available



Mill-finish



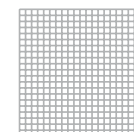
RAL 9010



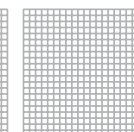
RAL 8014

Possibility of painting VL Plato in any RAL, RAL Mat, or special color, anodizing and wood imitation, upon request.

## Net material



Gray  
Soft type



Gray  
Aluminum type



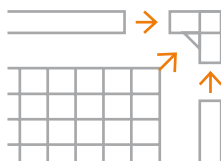
## Practicality & Economy

VL FLEX insect screen frame in gray color is a flexible system for quick construction and installation, giving the possibility of assembly at home, without the use of mechanical equipment.

Suitable for windows where the opening is not required, such as in the bathroom or in windows without external access. VL Plato is suitable for external installation with the use of a magnet, which allows it to be detached for cleaning or storage.

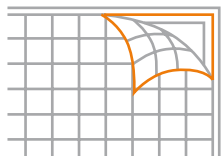


## ADVANTAGES & OPTIONS



### Fast construction

Easy and fast construction of the fixed frame, by measuring the dimension of the opening and simply assemble the magnetic frame without screwing or tools. The only required treatment is the cutting of the net, of the elastic magnets and the flexible insect screen frame with scissors in the desired dimension.



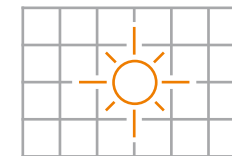
### Detachable insect screen

By using a magnet with double-sided adhesive tape, the system can be detached for cleaning or storage during winter.



### Ergonomic installation

Possibility of mounting the frame with a magnet, which has double-sided adhesive tape, without screwing on the window frame or on the wall.

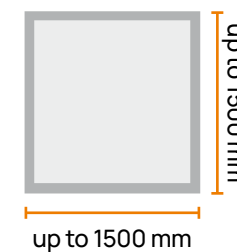
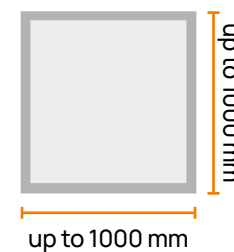


### Maximum brightness

Maximum brightness and visibility through the perforated gray soft net material.

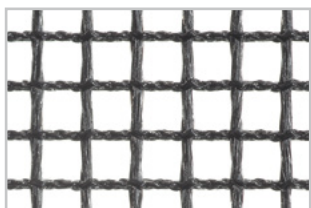
### VL Flex DIY KIT

VL Flex DIY system is available in two KITS of different dimensions



## Insect Screen Net Materials

VIOMAL insect screen systems for protection against annoying insects are available in a great variety of pleated and straight net materials. Characterized by high quality and aesthetics, they are suitable for any type of application based on specifications or requirements of the end user.



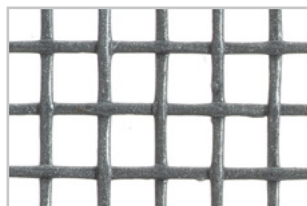
### Pleated net material

Pleated polyester net, produced by VIOMAL in black and gray color.

Perforated, with pleat heights 15mm - 18mm - 20mm, for greater brightness & better visibility.

Waterproof net, which does not retain water after rain or cleaning, keeping its shape unchanged over time and certified by independent bodies. Its special knitting and high resistance to ultraviolet radiation enhance durability.

Available in heights 240cm - 260cm - 300cm, in black & gray color. Compatible with VIOMAL VL Phoenix and VL Plisse insect screens, as well as with all pleated insect screen systems with 15mm or 18mm or 20mm pleat heights.

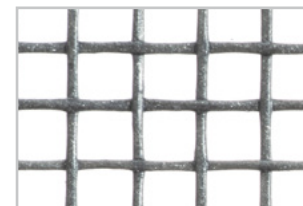


### Stiff

Straight Fiberglass net, super durable, suitable for use in classical insect screen systems.

Available in rolls of 102m, with heights of 160cm and 240cm in gray color. Black color available upon order.

Compatible with VIOMAL VL Apollo 38mm, VL Apollo 42mm, VL Apollo 42mm PLUS and VL ORION insect screens, as well as with all horizontal and vertical movement systems with straight net.

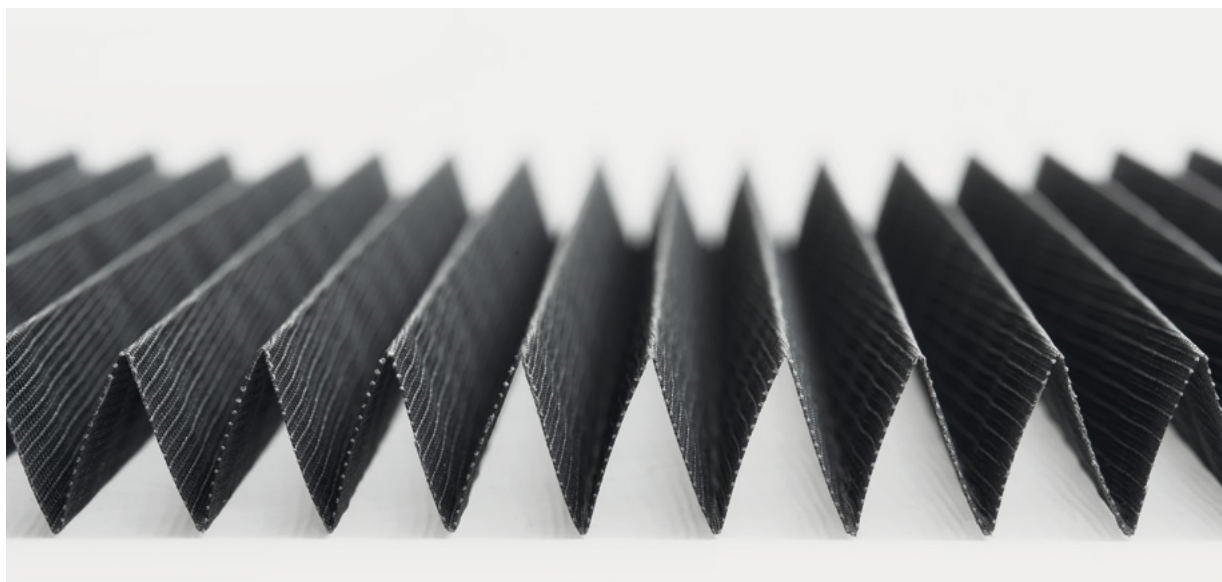


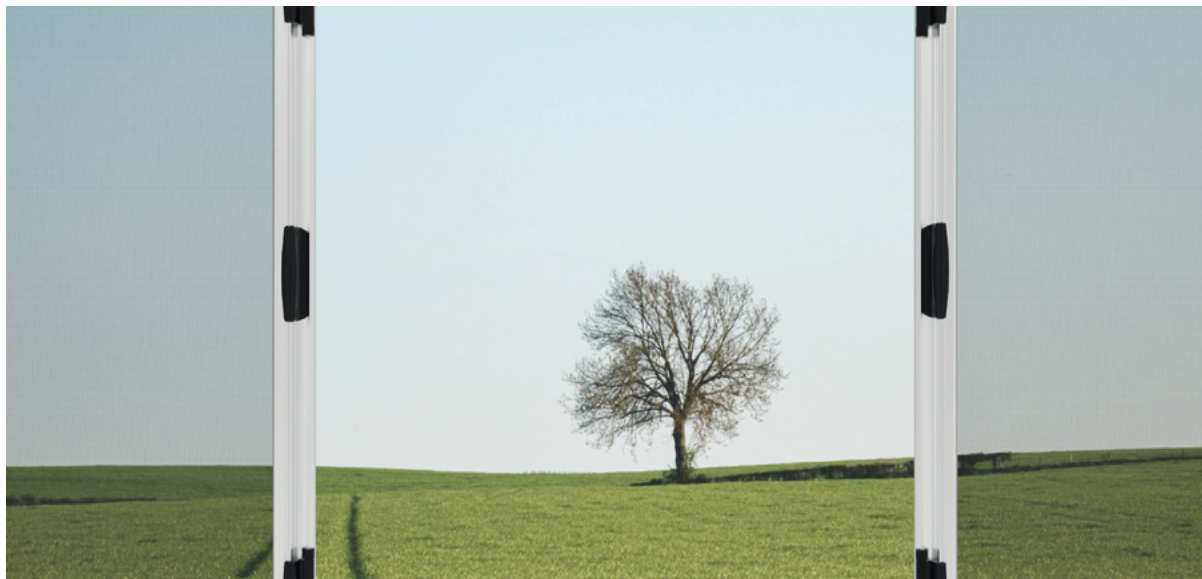
### Soft

Straight soft Fiberglass net, with great elasticity. Ideal for use in opening doors & fixed frames.

Available in rolls of 30m, with heights: 60cm | 80cm | 100cm | 120cm | 140cm | 160cm | 180cm | 200cm | 220cm | 240cm in gray color. Black color available upon order.

Compatible with VIOMAL VL Opening Door, VL Plato and VL Flex DIY insect screens, as well as with all aluminum insect screen systems.





## Aluminum

Aluminum net material with high durability.  
Available in rolls of 30m and heights of 100cm & 120cm in silver color.  
Compatible with VIOMAL VL Opening Door and VL Plato insect screens, as well as with all aluminum insect screen systems.



## Pet

Reinforced insect screen net material, ideal for pet owners, as it is very resistant to scratches, while offering excellent ventilation of the space.  
Available in 20m rolls and 135cm height in gray color.  
Compatible with VIOMAL VL Opening Door insect screens, as well as with all aluminum insect screen systems.

## KIT of Replacement Net Material

The KIT of replacement pleated net is an ideal solution for repairing any pleated insect screen system of the market.

The pleated net is perforated, made of polyester, and is produced by VIOMAL.

Available in black and gray color and suitable for repairing 15mm or 18mm insect screen systems.

The KIT package includes the net, the regulators and the cords.

Ready to use without requiring mechanical equipment.

Insect Screen system	Net material 15 mm	Net material 18 mm
22 mm	✓	
25 mm		✓
27 mm		✓
29 mm		✓
32 mm		✓
34 mm		✓
37 mm		✓

**Behind the Screen ●**

**VIOMAL<sup>®</sup> S.A.**

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Aluminium shading • Made to inspire



Aluminium shading • Made to inspire

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