#### **GENERAL CATALOGUE**





## agostini







Agostini Group proposes a wide array of windows in PVC, aluminium, mixed aluminium and wood and Fibex, from casement windows to sliding windows, to rolling shutters, in different colours and finishes. They are customizable with a wide variety of accessories, from handles to locks, to motorization, to satisfy every market need and adapt to all types of housing.



- 06 Fifty years of success.
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The group, its values, its products.







The Agostini Group's philosophy is based on continuity between artisan tradition and Italy excellence.











# Agostini Group, a long history in the innovation of Italian doors, windows and shutters.

1963 Luciano Agostini started his first company which produced PVC roller shutters: ETP was founded in the province of Venezia. It was a real revolution with respect to the wooden roller shutters on the market at that time.

1972 The company evolved by adding on extrusion directly from PVC powder in the new factory in Quarto d'Altino. The new company name was **Agos Avvolgibili** with its production of over 100 000 roller shutters a year.

**1984** The know how accumulated in the working of plastics brought the Agostini Family to launch a line of PVC doors, windows and shutters, among the first in Italy, in collaboration with important European system experts: **Soteco** was founded.



1963 Luciano Agostini established ETP, his first PVC roller shutters company.



1972 Agos, manufacturer of PVC roller shutters



Soteco, among the first companies in Italy to manufacture PVC doors, windows and shutters.

1996 The market covered went beyond borders to France where, from the **Agos France** branch, the local clients and construction companies are managed directly.

1998 Archimede Progetti srl was bought. It's a leading company in the doors, windows and shutters and aluminium-wood systems. Its many innovative patents allowed the Agostini companies to become "system experts" thus being able to take on projects with exclusive and innovative systems.

1999 Agostini's R&D developed **Fibex**, one of the first fiberglass composites in the world used to produce shutters and blinds. This innovative system was created also thanks to the collaboration with North American companies to cater to the growing request for materials with high thermal and mechanical performance.

Fifty years of innovative projects in the world of doors, windows and shutters to bring together design and technology. Fifty years in which our mission has always been to conceive and create doors, windows and shutters with state-of-the-art materials and solutions so as to continuously improve the protection and insulation of our houses, while guaranteeing ideal energy savings, maximum reduction of waste and respect for the environment.

Our quality standards are always high because our doors, windows and shutters must really last in time

**2000** At the Saie 2 fair in Bologna the Fibex systems were recognized as "the best innovative product of the year" on the doors, windows and shutters market. It is the result that confirms how the Fibex brand is identified with this technology.

**2002** With the **GFT (Glass Fixing Technology)** technology, Agostini improved the assembly and insulation of the double glazing of the frame on aluminium-wooden doors and windows thus ensuring elevated gurantees and quality.

**2005** Agostini, Agos, Soteco and Archimede decided to go the trade fair and on the market as a brand group: **Agostini Group**.



#### 1998

Archimede enter the aluminium-wood market as protagonist.



#### 1999

Fibex, the exclusive extruded fiber idea for shutters and blinds.



#### 2010

The establishment of Agostini Group, a synthesis of 4 industrial companies.

**2008** Agostini launched a new system that is the synthesis of the group's research. It is a series of shutters and blinds in aluminium and aluminium-wood with insulating Fibex inserts: **Fibex Inside**, a new frontier in insulation that can ensure incomparable thermal insulation.

**2010** The companies of the group, Agos, Soteco and Archimede, merged into only one company: **Agostini Group srl**, with a wide and varied range of doors, windows and shutters and closing systems, was created.

**20 I I Germano Agostini**, with other important leaders of the Italian doors, windows and shutters sector, established **Associazione ANFIT** (National Association for the Protection of Made in Italy Windows) with the goal of promoting the companies that respect the rules of the quality excellence of Made-in-Italy products.

**2013** A variety of new products were launched, like the **500 H Series** with **Total Glass** and **Total Color** finish for PVC doors, windows and shutters and the new **lift and slide** doors with the Fibex Inside technology proving that Agostini Group continues to conceive and produce innovative solutions.

## Agostini Group, doors, windows and shutters made in Italy.

Agostini Group, with other important leaders of the Italian doors, windows and shutters sector, established Associazione ANFIT (National Association for the Protection of Made in Italy Windows) with the goal of promoting the companies that respect the rules of the quality excellence of Made-in-Italy products.



#### Our home and the safety of your family deserve the best.

All the companies that are members of ANFIT ensure the certainty of product qualitatively and entirely Made in Italy, offering a qualified technical consultation for improved energy savings, certified quality control and the verification of the respect of all the European and Italian norms. Moreover, they offer quality-guaranteed products that have been verified by an external certification body.

Finally, the energy savings obtained with the doors, windows and shutters purchased from a company that is a member of ANFIT is guaranteed with the emission of the White Certificate.



From technological content, to patents and the materials used, every Agostini Group element represents looks and values that are absolutely Made in Italy.

made in Italy
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agostinigroup

## Agostini Group, design intended as research, innovation and the culture of aesthetics.

For Agostini Group, "design" means innovation and the immediate ability to implement new trends regarding housing, construction and visual culture.

This means creating a project that is not limited to the production of standard doors, windows and shutters, but that enhances the environment and architecture for which it is destined and adapts to its uniqueness so that the type of "closure" becomes an integral part of the house.

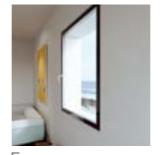
Today, careful studies in design, research and materials and the introduction of state-of-the-art production techniques represent a level of innovation that is actually able to offer new potential. For this reason, Agostini Group's Design Department is continuously studying customized solutions and specifically conceived to be the ideal answer to any need for clarity. The culture of quality is a part of every stage of the production of the doors, windows and shutters that thus become the final result of a system in which care and attention to detail reach elevated levels.

Agostini Group represents an innovative way of conceiving doors, windows and shutters in which design is combined with technology in products that are eco-friendly and guarantee protection and insulation performance.



#### RasoMuro ®

The window, thanks to a new counterframe, is installed without backlining and frames integrating perfectly with the wall and disappearing from sight. The minimal style of assured aesthetic impact is proposed both for the PVC and allu-wood lines.



#### TotalGlass®

Presented with standard concealed hinges, it allows us to eliminate the superfluous. The glass becomes the only element in sight, freeing it from its frame and filling the room with light, transparency and elegance.

The window is characterized by a totally slide-away sash externally and reduced dimensions internally thus increasing the glass surface.



#### TotalColor ®

Total Color colouring allows us to obtain a frame with a total "wood-effect" by eliminating, in an innovative way, the colour contrast between the wood-effect film and the mass-coloured PVC. The film is applied both on the interior part of the frame as well as the sashes giving a surprisingly realistic effect. Today, thanks to Total Color, the window will look like a wooden window even internally by combining the pleasant aesthetic effect with the technical performance of PVC.

## Agostini Windows, intelligent choice towards energy savings.



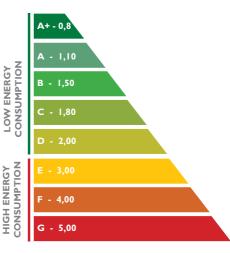
#### Saving energy starts from the choice of doors, windows and shutters.

A large part of the energy we consume is due to the heating and air conditioning of the space we live in. Environmental protection means avoiding waste and inefficient use of energy resources.

It is everybody's duty to adopt building and renovation measures that, with the use of modern technology, minimize the loss of energy towards the external part of a building.

Elements with glass (windows) are the most critical points when it comes to dispersion, but at the same time they are the ones that its best to intervene on when making improvements or renovating. The use of highly isolating elements (profiles and glass) means a high reduction of energy dispersion towards the outside.





#### Energy consumption classes.

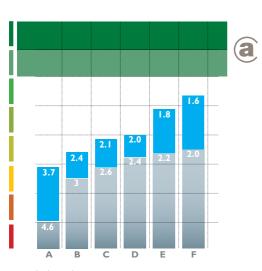
The values indicated represent the total transmittance coefficient of the window with glass (Uw =W/m2k).

Energy saving

#### All Agostini windows are in the "low energy consumption" class.

In fact, thanks to the special glass configurations and the use of profiles focused on obtaining increasing thermal insulation levels, our windows can be included in the most efficient energy conservation classes. They represent an eco-friendly answer to modern construction requirements in terms of waste reduction and environmental impact.

Our thermal insulation performance widely exceeds the insulation needs required by Legislative Decree 311/06 regarding Energy conservation and the limits imposed for the 55% tax credit.



#### Italian climate zones

- Histograms: values required by law 311.
- Histograms: values required by law to receive 55% tax credit.

#### Agostini PVC performance:

- BluLine: Uw = 1,17 0,76 W/m²K
   Streamline: Uw = 1,27 0,86 W/m²K
- Agostini aluminium and alu-wood performance:
  - 502: Uw = 1,20 0,76 W/m²K
     502H: Uw = 1,17 0,71 W/m²K
     503: Uw = 1,31 0,86 W/m²K
     503H: Uw = 1,27 0,80 W/m²K
  - Total Glass: Uw = 1,18 0,71 W/m<sup>2</sup>K



- thermal insulation
- · energy saving
- comfort

## Agostini Windows, guaranteed comfort at home.

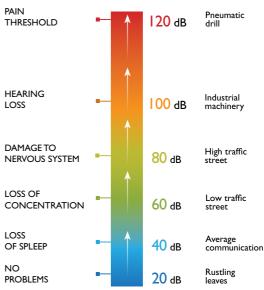


#### Noise is detrimental to health.

The environments we live and work in are characterized by the continous increase of acoustic pollution caused, above all, by ever increasing road traffic without considering the areas near railway and air traffic zones. More and more people are suffering from excessive noise. As a matter of fact, noise generates stress, sleep troubles and descreased mental and intellectual performance. Acting upon the source of noise is difficult, but it is possible to heavily reduce the penetration of noise into our living environment. The most efficient solution to limit this disturbance is surely to choose windows that guarantee elevated acoustic insulation.



Noise levels perceived by man



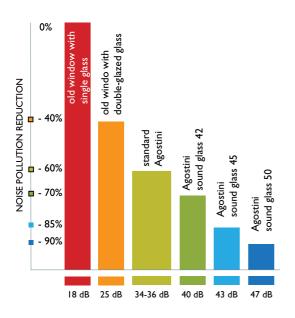
Noise levels are measured in decibels (dB) and vary logarithmically. For the human ear, a 10 dB variation corresponds to half of or double the noise level.

Acoustics 14 / 15 agostini

The standard technical measures for the tightness of Agostini windows guarantee excellent acoustic insulation and improve comfort in the home. In fact, thanks to the numerous fins, the outer perimeter sealing system of the double-glazed glass (GFT) or the aluminium and alu-wood windows, the wide cavity between the two panes (standard 16-22 mm), a standard window achieves good levels of noise reduction.

To improve the standard performance beyond the excellent hermetic tightness of the window and the state-of-the-art assembly, special sound-resistant glass that also has a secondary effect in ensuring increased protection from break-ins is necessary.

#### Comparison of windows





Standard configuration Agostini windows ensure an Rw (noise reduction value) of about 34/36 dB, reducing noise pollution by about 60% compared to a window with simple glass.

- acoustic insulation
- comfort

#### Agostini Windows, a safe choice.

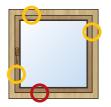


#### Thieves enter houses, most of all, through windows.

The majority of break-ins are sporadic and easy to avoid. Time has in important role; if a thief is not able to enter a house in a few minutes, he will give up.

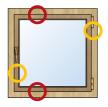
Agostini doors, windows and shutters, besides the closures on the whole perimeter, have a standard first level of safety by installing a steel safety striker that makes lock-picking very difficult. To ensure an increased degree of safety, Agostini also proposes a series of accessories and two other predefined levels of protection: "Secure 2" and "Secure Top".

#### Safety levels



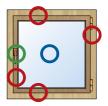
#### Agostini Secure I (Standard)

- · perimeter closure with sash locks
- and zamak strikers;
- · hottom steel anti-break-in striker



#### Agostini Secure 2

- · Secure I configuration.
- · Top steel anti-break-in striker
- · conformity with RCI level (norm EN1627-EN1630)



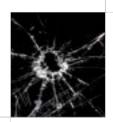
#### Agostini Secure Top

- · Secure 2 configuration.
- · 2 steel anti-break-in strikers on both sashes:
- · anti-drill plate:
- · external security glass 4+4 Pvb 0,76.
- · conformity with RC2 level (norm EN1627-EN1630)



Safety 16 / 17 **agostini** 





#### **Safety Accessories**

Every window has more than one point of closure along the whole perimeter no further than 70 cm. The windows are closed with locks on zamak strikers.

For greater safety, the locks can be inserted in tempered steel strikers making attempts at breaking in more difficult. The handle movement mechanism can be protected against piercing from the exterior with a tempered steel plate.

#### O Standard striker



#### O Anti-break-in striker





#### O anti-drill plate



#### O double safety glass



O built-in contacts



The hardware con be equipped with built-in magnetic contacts for connection with the alarm system.





Every window can be equipped with a handle with button/key that makes moving it from the outside impossible. Both handles can be also be used to increase child safety.





- calmness
- anti-break-in



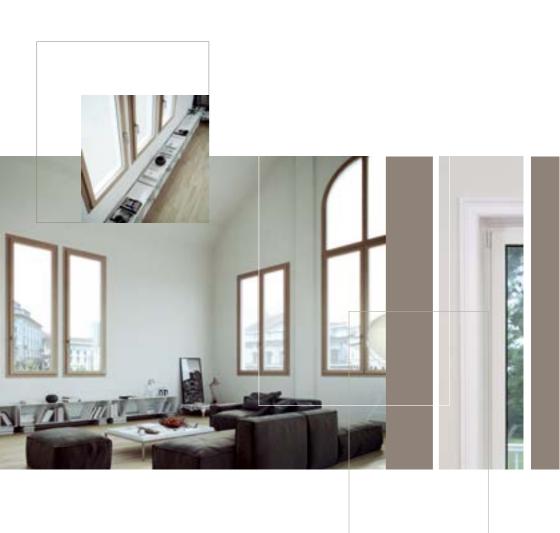
- 20 Features and advantages of the Agostini alu-wood line.
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Agostini, windows in aluminium and in mixed aluminium and wood.

Agostini PVC supplies a wide range of products from casement to sliding windows in different colours and finishes. They are customizable with a wide variety of accessories, from handles to locks, to motorization, to satisfy every market need and adapt to all types of housing.







## Agostini alu-wood, the warmth of the wood, the strength of the aluminium.

#### Technology and innovation for unique windows.

Agostini alu-wood windows perfectly combine the natural and enjoyable "warmth" that only wood can transmit inside a home with the strength and resistance of an aluminium window.

Thanks to their elegant and unique style and their lifetime quality and lack of maintenance, these windows, real furnishing elements, represent the ideal choice for every room.

Every Agostini alu-wood door or window is customizable not only with materials, only aluminium or mixed aluminium and wood, finishes and colours, but also according to drawings provided by the client. Every door and window thus becomes a unique product that fits in perfectly with the design of a house.

Agostini alu-wood is more than just a window; it is a function furnishing element in perfect harmony with new, future building techniques with an eye for energy savings and quality living.

The great care in detail and the elegance of these windows, the greatest expression of Agostini technology and real furnishing elements, make them the ideal choice for the most prestigious venues.





Agostini alu-wood windows

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agostinialu-wood

The experts' know-how places Agostini products at the top of the window sector thanks to constant innovation and excellence at every step, from the design to the installed finished product.

The Agostini system was founded on a basis of research oriented towards improving the functional and aesthetic performance of a window. Thanks to detailed studies of technology and materials, Agostini has been among the first companies to introduce the coupling of aluminium and wood and aluminium with aluminium and patent a system with innovative features, like Fibex Inside.

Agostini systems have obtained all the main types of Italian and European certification and its windows have passed very strict tests and obtained the maximum class in the technical tests regarding air and water tightness and wind resistance.



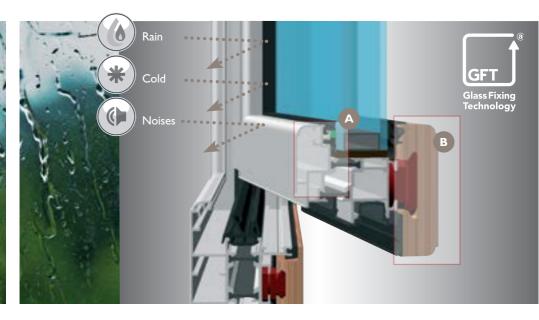
- interior & exterior design
- customizable solutions
- Made in Italy patents and technology

## Agostini alu-wood: the technology of systems.

Agostini's exclusive technical-functional patents of the mixed elements, recognized and successful on the international market, represent a level of innovation that has become a point of reference for the entire market. The coupled material technology, the tightness systems and the special glass-fixing technology (GFT) and the Fibex Inside technology characterize their uniqueness and exclusivity.

#### GFT - Glass Fixing Tecnology

Agostini alu-wood is the only mixed window in which the glass is fixed to the profile with a **special outer seal**. The exclusive GFT system guarantees the window adherence to the sash thus making it absolutely water-proof, well-isolated acoustically and thermally and structurally sound. (A-B).



#### Α

The glass is glued to the outer perimeter thus guaranteeing a stable connection with the frame. It includes a bottom seal that ensures the absence of sound vibrations, and another covering seal to maintain the characteristics of the sealing in time (in the event the glass breaks, the GFT is easily restored).

#### В

The internal part of the sash also functions as a glazing bead; therefore the classical glazing beads, that in the "mixed systems" can have aesthetic imperfections and that break easily when the glass is substituted, can be avoided.

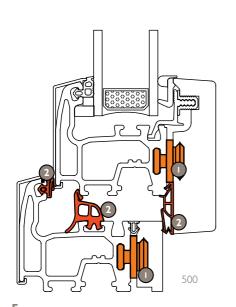
Technology

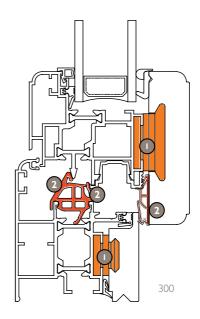
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agostinialu-wood

#### The coupled material technology

Agostini alu-wood windows are produced by coupling the internal part in wood or aluminium with the external and supporting part that can be in aluminium or the Fibex composite material. The coupling is executed through **one nylon element** as "bird's nest" without the use of screws, thus ensuring the insulation and separation of the two different materials. (1))





#### Tightness systems

Agostini alu-wood always has **3** fins to improve thermal insulation and acoustic performance. Besides the central and external (500 series) fins, there is also a special internal striker seal made of the very new TPE foam that ensures greater elasticity and softness making the closure of the sash lighter and easier. It is an acoustic seal and contributes, together with other elements, to achieve excellent insulation results; to better adapt to the internal finish of the window, it is supplied in white/brown/black. (2)

- GFT
- coupled materials
- tightness

## Agostini and Fibex, the force of innovation.



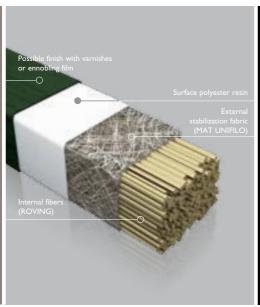
The term FRP Fiber Reinforced Polymer, often called Composite Material, refers to material that is usually made from a matrix and a fiber; not all fibers are the same and on the basis of the use, different fibers like Kevlar, Carbon or Glass, are used.

FIBEX is a composite material made with uni-directional fiberglass (roving), enveloped in a multidirectional fiber material (mat) that is soaked with polyester resin. The manufacturing process of the Fibex profiles is called pultrusion (from the word "pull") which is an extrusion process executed under tension.

Compared to traditional material, the favourable rapport between mechanical performance and the weight of the composite is the basis of its growing successs and ever increasing applications due to its design flexibility.

Due to the excellent weight-performance ratio, the composite materials proved to be particularly suitable in structural applications and their development was primarily linked to aerospace and aeronautical industries, but also more often in the transport sector.

In construction, instead, the increasing use of FRP is due not only to excellent mechanical performance, but also to other important characteristics like resistance to environmental and chemical agents, total lack of maintenance, excellent thermal insulation and water repellance.





FRP Fiber Reinforced Polymer

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agostinialu-wood

## Fibex Inside, sometimes what is essential is invisible.

Agostini uses the Fibex composite as an innovative isolating material in the Fibex Inside 500 Series. Fibex, thanks to it intrinsic characteristics, gives this line of windows considerable functional advantages.

#### excellent insulation

Thanks to the low thermal conductivity of Fibex, the Fibex Inside 500 series has achieved an unparalleled result in terms of thermal insulation (Uf=1,10 W/m2K on 502 series and Uf=0,95 W/m2K on 502H series), setting a new limit to its traditional level. This is our tangible answer in a moment in which all the attention of the design and regulation world is searching for high-performance solutions.

#### maximum design flexibility

The 500 projects is a new starting point in window design. By maintaining a Fibex central insulation unit which guarantees resistance and insulation properties, the window can easily be customized not only internally with different sections and wooden and aluminium shapes, but also externally with different contours and materials based on the different design requirements.

#### minimal encumbrance

Thanks to the mechanical characteristics of the Fibex profiles, we were able to obtain a finished product with reduced sections with respect to tradition, thus increasing the glass surface of the window (+ 10%). The central section was also designed with minimum encumbrance even though guaranteeing insulation and functional performance.









#### Casement windows in aluminium and aluminium and wood.

Agostini's alu-wood range includes a series of casement and French windows with one or more sashes. The series of profiles differ in thermal insulation and acoustic performance and in the numerous internal and external coverings that customize the window.

#### 500 Series fibe inside

The 500 series is characterized by a support element in Fibex, which guarantees the resistance and insulation properties, and by an internal wood (502) or aluminium (503) element. Thanks to the technical characteristics of Fibex, the series achieved excellent results in thermal insulation (Uf= 1.10 W/m2k on 502 series), maximum design flexibility due to internal and external customization of the window and the reduction of the sections thus increasing the glass surface of the window.



#### 502

- · Fibex sash with differently-shaped external aluminium covering.
- Sash with 6 103 mm-section, externally rounded chambers semi-flush with frame or "elite" rounded.
- · Heat transmission rate: Uf= 1.10 W/m2K - Uw 0.76 W/m2k







#### 503

- Fibex sash with differently-shaped external aluminium covering.
- · Internal covering like aluminium sash with modern, square shape or "elite" rounded.
- · Heat transmission rate: l Jf= 1.40 W/m2K - Uw 0,86 W/m2k







500 Series fibe inside

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**agostini**alu-wood

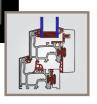
The window has a triple fin tightness system with acoustic insulation internal striker seal. The central seal and the striker seal are grey like the Fibex composite make the whole look "cleaner" when the sashes are open.

#### External Configurations



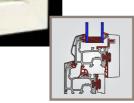


- Section: frame 68 mm, sash 76 mm
- Aluminium external covering, square-shaped with "step"



#### 500 trend

- Section: frame 68 mm, sash 82 mm
- Aluminium external covering, semi-flush "rounded" shape



## Casement windows in aluminium and aluminium and wood.

#### 500 Series H fibe inside

With the Fibex Inside 500 H series, Agostini is revolutionizing the concept of the window thanks to which the architecture casing changes shape and becomes lighter offering a new perspective in terms of design and style. With the new 500 H series, the window has become ever more an elegant and stylish accessory, bringing together an aesthetic quality with high performance. The thermal insulation and subsequent energy savings have improved to the point of achieving unparalleled results (Uf =0,95 W/m2k on the 502 H series).



#### 502H

- · Fibex slide-away sash; frame 68x85 mm
- Internal covering of sash in wood with modern, square shape and minimum height (55 mm).
- The window has a quadruple fin tightness system with acoustic insulation internal striker seal.
- · Optional concealed hinges
- Heat transmission rate: Uf=0,95 W/m2k - Uw up to 0,71 W/m2k



#### 503H

- Fibex slide-away sash; frame 68x85 mm
- Internal covering of sash in aluminium with modern, square shape and minimum height (55 mm).
- The window has a quadruple fin tightness system with acoustic insulation internal striker seal.
- · Optional concealed hinges
- Heat transmission rate:
   Uf=1,2 W/m2k Uw up to 0,80 W/m2k



#### 500 H Total Glass

- Fibex slide-away sash; frame 68x85 mm
- Internal covering of sash in silk-screen printed glass in different colours
- The window has a quadruple fin tightness system with acoustic insulation internal striker seal.

• Optional concealed hinges
• Heat transmission rate:
Uf=0,98 W/m2k - Uw up to 0,71 W/m2k

500 Series fiberinside

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agostinialu-wood



### The aesthetic revolution of the Total Glass\* finish.

The window is characterized by a totally slide-away sash externally and reduced dimensions internally thus increasing the glass surface.

The flexibility of the system gives the possibility of using both the traditional material of the internal finish like wood and aluminium and the new TOTAL GLASS finish making the window a true work of art.

Total Glass, presented with standard concealed hinges, allows us to eliminate the superfluous. The glass becomes the only element in sight, freeing it from its frame and filling the room with light, transparency and elegance.





#### Windows and French windows in alu-wood.

Casement and French windows are the most common types of structures used which, based on the architectural requirements and size of the opening, can have one or more sashes.

All Agostini alu-wood windows are fitted with standard hardware of the best quality complete with every component and accessory to guarantee maximum tightness performance and excellent operation in time. Every window, both in aluminium and wood and aluminium only, have standard tilt and turn hardware with controlled ventilation system, equipped with mishandling device. The corner friction hinges, adjustable on 3 axes, and the "sash lifter" system ensure perfect and proper operation in time, while the bottom tempered steel striker guarantees a first level of safety.

To guarantee both optimal tightness and easy movement, the secondary sashes are equipped with lever rod and not with single bolts.



Tilt and turn window



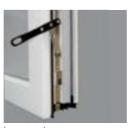
Sash lifter



Anti-break-in striker



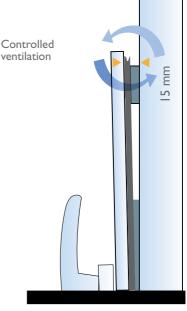
corner hinges



Lever rod

#### Controlled ventilation

Especially when one season changes to the next one, this specific accessory equals proper ventilation of rooms with exaggerated heat loss, thus preventing the formation of condensation and unpleasant mould. The system, activated by turning the handle 45°, makes a slow and efficient change of air possible.



**Note:** Tilt and turn mechanisms are not installed on arched or trapezoid French windows (or oversized windows) to avoid improper window closing and the ventilation system is applied only to windows with L < 900.

**Note:** On request, it is possible to install an external pull handle on French windows.

Hardware 30 / 31

agostinialu-wood

#### Oversized alu-wood doors with lock.

These doors are suitable for secondary exits where access to the outside is necessary. As with the French windows, these doors have a 4-sided frame (standard bottom crosspiece) to guarantee maximum tightness performance. Compared to French windows, their sash profiles are taller (95 mm instead of 73 mm on the 500 series) to allow for the addition of the lock and the lever handle. The hinges used are the same corner hinges of the French windows.

The doors are closed using standard latches; they are moved by the handle to make the operation manoeuvre easier. The key blocks the movement of the handle. With a special lock, the oversized door is also possible with the tilt and turn mechanism.

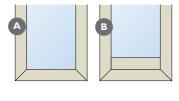


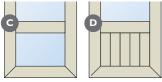




Lock with tilt and turn mechanism

#### Window pane solutions







- A standard pane
- B with single or multiple plinth
- C with mullion
- **D** with slat panel
- E with ashlar panel



#### Entrance doors in alu-wood.

The entrance doors differ from the oversized doors with lock in that it has "heavy-duty hinges" and locks for different degrees of safety and use. The standard configuration includes lower closure guides with cold-blocking sill that leaves the passage free, but doesn't guarantee tightness.

If the door should be exposed to the elements or to improve tightness, it is possible to mount a lower sill (H = 20 mm).

Entrance doors show off the style of every home. The solutions offered by Agostini alu-wood satisfy different needs in terms of design, giving the choice between different solutions of modern and classical panels. To satisfy any customization request, it is also possible to combine special glass with uprights and cross pieces. The choice of handles and other accessories makes the entrance door even more unique.



#### Entrance door examples











Note: In the event of "fake rustic" panels on aluminium and wood doors, the internal part is always done with vertical wooden slats.

Entrance doors

#### Locks.

#### Automatic lock (standard)

When the entrance door is closed, 2 pivots automatically activate, they act as blocked bolts than cannot move back. The entrance door is thus "safe" and the key does not need to be turned.



# Hook lock Two hook locks are used to close the door.

#### Sills.

Based on accessibility requirements, the doors can have a four-side frame, a low sill or a cold-blocking sill. Only the four-sided frame door solution ensures maximum tightness performance.

Another limit of the low sills has always been the lack of thermal insulation. Agostini aluwood has overcome this problem by substituting the classical aluminium sill with a new in a composite material (WPC) which guarantees an better thermal insulation.



(H = 58 - 73 mm) maximum tightness



(H= 20 mm) aluminium sill cover, possible tilt and turn application; limited tightness



(H=0 mm) No guarantee of tightness









Standard entrance door hinge, capacity 100 kg, adjustable on three axes, available in White, Ivory, Light Brown, Dark Brown, Brass finish, Chrome finish.

The heavy-duty hinge (maggiorata), capacity 150 kg, is used for door weighing more than 100 kg.



Entrance door hinge for opening towards the outside, capacity 140 kg, adjustable on 3 axes, available in White, Silver, Light Brown, Dark Brown, Green.

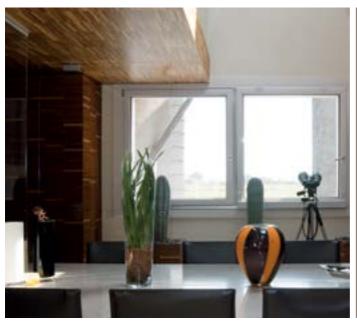
#### Sliding windows and doors in alu-wood.

The casement parallel sliding doors, thanks to a sliding mechanism, means that the main door can open both tilted as well as by sliding on a track fastened to the frame. The mechanism includes a standard automatic hooking system during closure. This type of door is ideal for environments that cannot having folding doors due to weight or size. Lock and lever handle can be installed on door.

The sliding door is possible only with the four-sided frame so the lower sill can never be the low sill, but must have a minimum height of 65 mm; the four-sided frame guarantees optimal tightness performance.

The lower casing that covers the mechanism carriage is plastic and is only available in White/Brown/Silver.







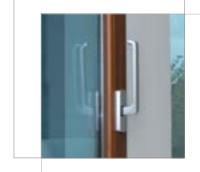
The side mirror panel of the primary door is possible either with one fixed sash (SCTI+FX) or, to obtain symmetrical panelling, with a sliding door (SCTI+FXA) or casement sash (SCTI+FIK) after verifying the maximum dimensions. In the event of the casement sash, a handle is necessary to slide the primary door open and closed.



#### Forced Control

For openings wider than 1200 mm or for doors weighing more than 90 kg a mechanism that facilitates the opening and closing of the door (Forced Control) is necessary. This mechanism opens and closes the door simply by rotating the handle without putting extra pressure on the person; for this solution the normal handles cannot be used, but a special bigger aluminium handle is necessary; available only in White (F0), Silver (F1), Bronze (F4), Gold (F3).

**Warning:** the Forced Control is recommended, independently from the size and weight of the door, also for all public buildings like schools and hotels where there are many people who do not know how the standard mechanism works.







Sliding door size limits.

Standard control: L min: 650; H min 700; L max: 1600: H low. cross. =65 mm ratio max H/L=2,50; Kg. max 90 Forced Control: L min: 750; H min 850; L max: 1900: H low. cross. =70 mm ratio max H/L=2,50; Kg. max 180

## Pivot-hung windows in alu-wood: perfectly balanced solutions.

Pivot-hung windows, available only with rotation on horizontal or vertical axis, allows for the opening windows with only one big pane by reducing to a minimum its size in internal spaces. The easy maneuverability is assured by a turn limiter.

Rotation up to  $180^{\circ}$  guarantees easy cleaning of the glass where it is not accessible externally.

Due to the particular opening, the pivot-hung window is not compatible with shutters, blinds and manual window screens.





Pivot-hung windows

## Horizontal pivot-hung

Pivot-hung windows on horizontal axis make expandable big mirror panels and room ventilation possible even in rainy weather. The ventilation systems means that hot and foul air exits through the top opening and fresh air enter from the bottom one.

- Available hinge colours: White / Brown / Silver
- Maximum capacity 170 Kg.
- Minimum sizes available: 1100 in L and 900 in H



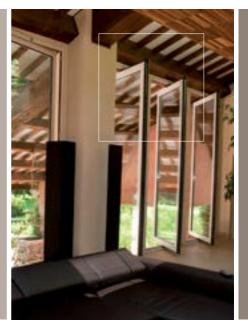
## Vertical pivot-hung

The applications are generally the same as for the horizontal pivot-hung window, but above all when the mirror panel is high. Windows and French windows with shifted axis (with respect to the middle line) are possible.

- Available hinge colours: Brown / Silver
- Maximum capacity 170 Kg.
- Minimum sizes available: 1100 in L and 900 in H
- Possible offset rotation up to 2/3 of the width with max weight of 90 kg of the greater area.







Note: Not possible in the porthole shape

## Lift and slide doors in alu-wood.

The lift and slide door is ideal for big, openable glass doors. Its "lift and slide" mechanism guarantees a fluid movement and the solidity of the door on very big surfaces with very heavy doors. They can also be installed with locks and top handles.

The size of the glass parts guarantees elegance and more light in the room.

For special needs, the door can disappear inside the wall guaranteeing 100% light entrance. In these cases, a special counter frame is necessary.



Lift and slide door

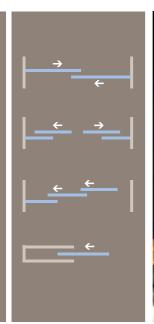
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(agostinialu-wood





The lift and slide door usually includes a big handle only on the interior and door pulls on the exterior, but it can also be supplied with lock and lever handle.





The Agostini lift and slide door is made with single modular tracks.

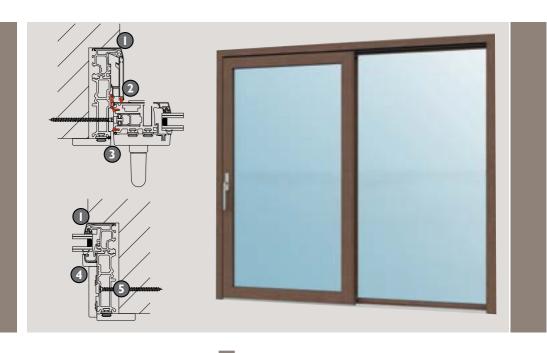
This technical configuration includes multiple solutions or more tracks.

## Lift and slide door with **fibe** inside technology.

The new Agostini lift and slide door was designed to guarantee an excellent product architecturally and technically. The system, centred on the Fibex Inside technology, gurantees insulation that is unparalleled both in the aluminium and PVC sectors. (Uf =  $1.46 \text{ W/m}^2 \text{k}$  on 562 series)

Special attention was paid to the style of the finished product with numerous technical and aesthetic devices. The system can be installed both with traditional, symmetrical doors and with the fixed doors installed without the thickness of the door thus reducing the size and giving the glass door more light.

- 1. The frame was designed to be concealed in a wall making it disappear like casement openings.
- 2. The external part of the casement sash includes a frame casing that is elegant and pristine, but at the same time considerably increases window tightness and insulation performance by adding a small brush and an "acoustic" seal.
- 3. Internally, to enhance the total design, the primary sash of lift and turn door is co-planar with the frame.
- 4. The solution with fixed side sash almost totally eliminates the thickness thus giving the glass surface more light.
- 5. For an elegant finish, the fastening screws are concealed.



Lift and slide door **fibe** inside 40 / 41

agostinialu-wood

#### Lower sill.

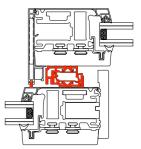
To ensure proper movement in time, the system includes stainless steel tracks for the carriage. The lower Fibex sill has been reduced to a minimum height of 20 mm, guaranteeing optimal tightness and excellent insulation.

Colour note: sill and internal casement door frame is available only in "grey fibex".



For the central tightness system, the weak point of every lift and slide door, a special system was designed; it includes a central tunnel with double seal and brush which generate a vacuum chamber that eliminates the evacuation of water on the lower drain. Even the central tightness system is made with insulating material.









## Safety.

The system includes 3 standard closing points and its configuration excludes the possibility of forcefully opening the door by lifting it.

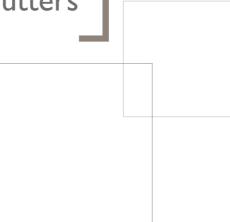
Sliding door size limits.

Min L: 800 mm; min H: 1500 mm; max 300 kg w/ standard carriages; max. 400 kg con heavy-duty carriages.

- 44 Characteristics and advantages of the Agostini PVC line.
- 48 Range of casement profiles.
- 50 Casement windows.
- 54 French windows.
- 55 Over-sized door with lock.
- 56 Entrance doors.
- 58 Sliding doors.
- 60 Lift and slice doors.

# Pvc doors, windows and shutters

Agostini proposes a wide array of products, from casement to sliding windows, in different colours and finishes, customizable with a wide choice of accessories from handles to locks, to motorization to satisfy every market need and adapt to all types of housing.











## Agostini PVC. Excellent reasons for installing a PVC window.

#### No Maintenance

PVC windows do not require maintenance, are easy to clean and weather-proof. Seeing as they do not have to be repainted periodocially, they are an investment in economic terms.

#### Thermal Insulation

PVC windows guarantee elevated thermal insulation and thanks to the almost non-existant conductivity of PVC, to the double fins and the isolating double-glazing, they help save energy.

#### Acoustic Insulation

PVC windows protect the home from external noise and improve comfort, thanks to their profiles and technical devices of solidity.

#### Absence of Condensate

These windows avert the formation of condensate in normal conditions thanks to the low conductivity of the PVC.



PVC characteristics

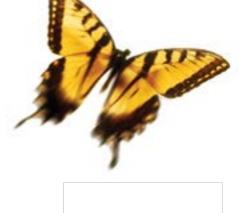
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PVC windows are certified to be air-tight, water-proof and wind-proof.

## Ecology and environment

PVC windows are recyclable, do not emit toxic or noxious substances and are manufactured with low energy consumption.







- no maintenance
- thermal-acoustic insulation
- absence of condensate
- · water- and wind-proof
- · ecology and environment

## Agostini pvc. Ideal for renovations.

Agostini PVC windows were designed to easily substitute "old" windows without the need for brickwork. As a matter of the system includes the possibility of installing the new window on the existing wooden or metal frame without having to remove it.

The time it takes to substitute the window is extremely fast, the "cleanliness" of the operation and the lack of brickwork means no inconvenience for the tenants of the home so they can "live" while the work is being done

without any problems.











Renovation

Moreover, even the old boxes can be substituted with PVC boxes and guarantee substantial improvement in terms of thermal-acoustic insulation and aesthetic impact.







#### window substitution

- fast
- convenient
- clean
- cheap
- no bother
- no masonry work

## PVC casement windows.

Agostini's range of products includes a series of casement windows and French casement windows with one or more sashes with double or triple fin tightness system.

To customize every door or window, the range of profiles is extremely articulated based on the number of "chambers" (5 or 6), on the size of the section (variable between 76 and 92 mm) and on the style of the sashes and glazing beads.

#### Streamline



#### SL Step

Double fin tightness system with 76 mm frame section with inclined plane for easier cleaning and water elimination. Sash with 5 76 mm-section, square-shaped chambers with step with respect to the frame.

Heat transmission rate Uf=1,3 W/m<sup>2</sup>K Uw up to 0.86 W/m<sup>2</sup>K



#### SL Elite

Double fin tightness system with 76 mm frame section with inclined plane for easier cleaning and water elimination. Sash with 5 82 mm-section, internally and externally rounded chambers semi-flush with frame.

Heat transmission rate
Uf=1,3 W/m<sup>2</sup>K
Uw up to 0.86 W/m<sup>2</sup>K



#### SL Classic

Double fin tightness system with 76 mm frame section with inclined plane for easier cleaning and water elimination. Sash with 5 86 mm-section, externally shaped chambers semi-flush with frame.

Heat transmission rate  $\begin{tabular}{l} Uf=1,3\,W/m^2K \\ Uw\ up\ to\ 0.86\,W/m^2K \end{tabular}$ 



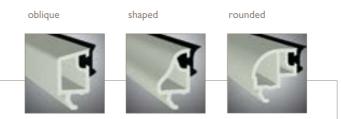
**Note:** For further hubs and/or applications see Technical Manual.



## Glazing beads

Window design can be customized by choosing the type of slat suitable to block the glass.

Warning: verify the minimum and maximum thickness of the glass applicable in the door/glazing bead configurations.







#### characteristics

- I. 5-chamber profile systems guarantee thermal reduction by I,3 W/m2K and noise reduction by 34 Db with standard glass.
- 2. Steel support to guarantee mechanical resistance of window / door.
- 3. Double inclination groove with drainage tray that is easy and fast to clean.
- 4. The slightly radiused corners give the window elegant shapes.
- 5. The wide space where the glass fits means increased choice of special, high-performing, double-glazed configurations.

- Window customization
- Size and design of doors and frames
- · design of grazing beads

## PVC casement windows.

#### BluLine

The new Agostini proposal gives a concrete answer to the main needs and requirements in terms of thermal and acoustic reduction. The BluLIne series, thanks to the minimum 92 mm-section profiles with 6 chambers and triple fin tightness system, guarantees excellent performance in terms of thermal and acoustic insulation and tightness, as well as greater static stability obtained by the safe division of the lad with the heavy glass. The system is suitable for use in "passive homes".



#### **BL** Step

Triple fin tightness system with 6 92 mm-section chambers. Sash with 6 92 mm-section, square-shaped chambers with step with respect to the frame.

Heat transmission rate Uf=1.0 W/m²K Uw up to 0.76 W/m²K



Note: For further hubs and/or applications see Technical Manual.



#### Glazing beads

Window design can be customized by choosing the type of slat suitable to block the glass.

Warning: verify the minimum and maximum thickness of the glass applicable in the door/glazing bead configurations.





- excellent thermal insulation
- · high noise reduction
- triple fin, tightness system
- perfect static stability even with heavy glass

#### characteristics

- I. Profile systems with 6 chambers guarantee thermal reduction by 1.0 W/m²K and noise reduction by 35 Db with standard glass.
- Steel supports guarantee mechanical resistance of the window.
- 3. 3-fin tightness system guarantees maximum performance classes of the window.
- The slightly radiused corners give the window elegant shapes. The height of the sash in view is minimum (35 mm) thus guaranteeing great glass surface without any compromises.
- The wide space where the glass fits, up to 60 mm, means increased choice of special, high-performing, double-glazed configurations; we suggest triple glass with double chamber.
- Greater stability thanks to the special construction of the chambers, which guarantees a safe division of the load even in the presence of heavy glass.

The wide ventilation chambers

7. are able to sustain high thermal stress.

## PVC casement windows.

Casement and French windows are the most common types of structures used which, based on the architectural requirements and size of the opening, can have one or more sashes.

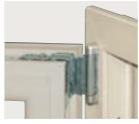
All Agostini windows are fitted with standard hardware of the best quality complete with every component and accessory to guarantee maximum tightness performance and excellent operation in time.

Every window has standard tilt and turn hardware with controlled ventilation system, equipped with mishandling device. The corner friction hinges, adjustable on 3 axes, and the "sash lifter" system ensure perfect and proper operation in time, while the bottom tempered steel striker guarantees a first level of safety.

To guarantee both optimal tightness and easy movement, the secondary sashes are equipped with lever rod and not with single bolts.



Tilt and turn window



corner friction hinges



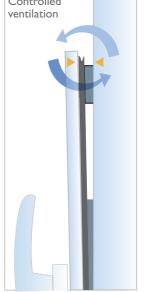
"Sash lifter"



Lever rod



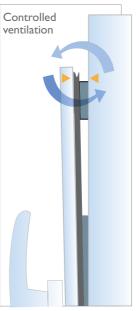
Anti-break-in striker



Note: Tilt and turn mechanisms are not installed on arched or trapezoid French windows (or oversized windows) to avoid improper window closing and the ventilation system is applied only to windows with L < 900.



Especially when one season changes to the next one, this specific accessory equals proper ventilation of rooms with exaggerated heat loss, thus preventing the formation of condensation and unpleasant mould. The system, activated by turning the handle 45°, makes a slow and efficient change of air possible.







code F1K+2FX  $\geq$  one-sash window w/ tilt and turn mechanism and 2 lateral fixed sashes



code FIK one-sash window w/ tilt and turn mechanism

## PVC French windows.

The hardware used is the same one used for the windows: tilt and turn opening mechanism with corner friction hinges, sash lifter system, tempered steel bottom striker, lever rod on secondary sash. The tilt and turn mechanism is not installed on oversized or arched French windows.

On request, it is possible to install an external pull handle on French windows. Available in white, silver and bronze.





code PIK I-sash French window w/ tilt and turn mechanism



code P2K 2-sash French window w/ tilt and turn mechanism



PVC French windows

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**agostini**pvo

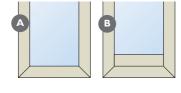
## PVC oversized doors with lock.

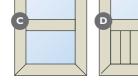
These doors are suitable for secondary exits where access to the outside is necessary. As with the French windows, these doors have a 4-sided frame (standard bottom crosspiece) to guarantee maximum tightness performance. Compared to French windows, their sash profiles are taller (104 mm instead of 80 mm on the SL series) to allow for the addition of the lock and the lever handle. The hinges used are the same corner hinges of the French windows.

The doors are closed using standard latches; they are moved by the handle to make the operation manoeuvre easier. The key blocks the movement of the handle. With a special lock, the oversized door is also possible with the tilt and turn mechanism.



Window pane solutions







- A standard pane
- **B** with single or multiple plinth
- C with mullion
- D with slat panel
- E with ashlar panel



code P2M  $\geq$  2-sash oversized door with C and E type pane







standard lock

## PVC Entrance doors.

The entrance doors differ from the oversized doors with lock in that it has "heavy-duty hinges" and locks for different degrees of safety and use. The standard configuration includes lower closure guides with cold-blocking sill that leaves the passage free, but doesn't guarantee tightness.

If the door should be exposed to the elements or to improve tightness, it is possible to mount a lower sill (H = 20 mm).

Entrance doors show off the style of every home. The solutions offered by Agostini satisfy different needs in terms of design, giving the choice between different solutions of modern and classical panels. To satisfy any customization request, it is also possible to combine special glass with uprights and cross pieces. The choice of handles and other accessories makes the entrance door even more unique.



#### Entrance door examples













PVC entrance doors

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## Locks.

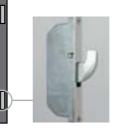
#### Automatic lock (standard)

When the entrance door is closed, 2 pivots automatically activate, they act as blocked bolts than cannot move back. The entrance door is thus "safe" and the key does not need to be turned.



#### Hook lock

Two hook locks are used to close the door.



#### Sills.



Based on accessibility requirements, the doors can have a four-side frame, a low sill or a cold-blocking sill. Only the four-sided frame door solution ensures maximum tightness performance.

Another limit of the low sills has always been the lack of thermal insulation. Agostini aluwood has overcome this problem by substituting the classical aluminium sill with a new in a composite material (WPC) which guarantees an better thermal insulation.

Four-sided frame (H = 58 - 73 mm) maximum tightness

## Low sill

(H= 20 mm) aluminium sill cover, possible tilt and turn application; limited tightness

#### Cold-blocking sill

(H=0 mm) No guarantee of tightness







Standard entrance door hinge,

capacity 100 kg, adjustable on three axes, available in White, Ivory, Light Brown, Dark Brown, Brass finish, Chrome finish. The heavy-duty hinge (maggiorata), capacity 150 kg, is used for door weighing more than 100 kg.



Entrance door hinge for opening towards the outside, capacity 140 kg, adjustable on 3 axes, available in White, Silver, Light Brown, Dark Brown, Green.

## PVC sliding windows and doors.

The casement parallel sliding doors, thanks to a sliding mechanism, means that the main door can open both tilted as well as by sliding on a track fastened to the frame.

The mechanism includes a standard automatic hooking system during closure.

This type of door is ideal for environments that cannot having folding doors due to weight or size.

Lock and lever handle can be installed on door.

The sliding door is possible only with the four-sided frame so the lower sill can never be the low sill, but must have a minimum height of 65 mm; the four-sided frame guarantees optimal tightness performance.

The lower casing that covers the mechanism carriage is plastic and is only available in White/Brown/Silver.







The side mirror panel of the primary door is possible either with one fixed sash (SCT1+FX) or, to obtain symmetrical panelling, with a sliding door (SCT1+FXA) or casement sash (SCT1 + F1K) after verifying the maximum dimensions. In the event of the casement sash, a handle is necessary to slide the primary door open and closed.

PVC sliding windows and doors

#### Forced Control

For openings wider than 1200 mm or for doors weighing more than 90 kg a mechanism that facilitates the opening and closing of the door (Forced Control) is necessary. This mechanism opens and closes the door simply by rotating the handle without putting extra pressure on the person; for this solution the normal handles cannot be used, but a special bigger aluminium handle is necessary; available only in White (F0), Silver (F1), Bronze (F4), Gold (F3).

**Warning:** the Forced Control is recommended, independently from the size and weight of the door, also for all public buildings like schools and hotels where there are many people who do not know how the standard mechanism works.







Sliding door size limits.

Standard control: L min: 650; H min 700; L max: 1500: H low. cross. =65 mm ratio max H/L=2,50; Kg. max 90 Forced Control: L min: 750; H min 850; L max: 1600: H low. cross. =70 mm ratio max H/L=2,50; Kg. max 180

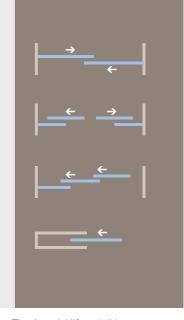
## PVC lift and slide door.

The lift and slide door is ideal for big, openable glass doors. Its "lift and slide" mechanism guarantees a fluid movement and the solidity of the door on very big surfaces with very heavy doors. They can also be installed with locks and top handles.

The size of the glass parts guarantees elegance and more light in the room. For this reason, the lift and slide door is mainly used in very exclusive homes. The sliding movement on tracks, rather than a folding movement means fully taking advantage of the area of the room.

For special needs, the door can disappear inside the wall guaranteeing 100% light entrance. In these cases, a special counter frame is necessary.





The Agostini lift and slide door is made with single modular tracks.
This technical configuration includes multiple solutions or more tracks.

PVC sliding windows and doors

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#### Lower sill.

To ensure proper movement in time, the system includes stainless steel tracks for the carriage. The lower Fibex sill has been reduced to a minimum height of 20 mm, guaranteeing optimal tightness and excellent insulation.

Colour note: sill is available only in "grey fibex".





### Safety.

The system includes 3 standard closing points and its configuration excludes the possibility of forcefully opening the door by lifting it.

Sliding door size limits.

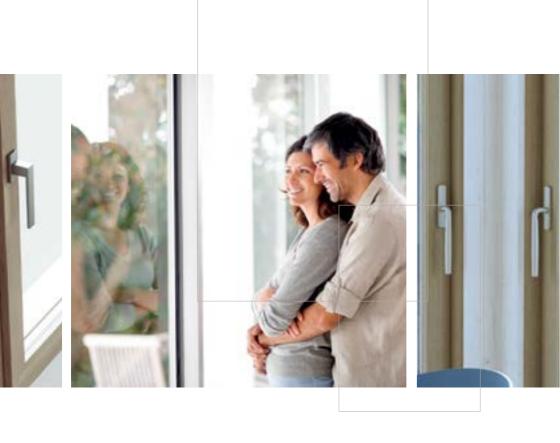
Min L: 800 mm; min H: 1500 mm; max 300 kg w/ standard carriages; max. 400 kg con heavy-duty carriages.

- 64 Glass.
- 66 Agostini alu-wood colour range.
- 70 Agostini PVC colour range.

Agostini offers a wide range of customizations, from colours to glass, to handles, to locks, to motorization, to satisfy every market need and adapt to all types of housing.

Agostini, the accessories.





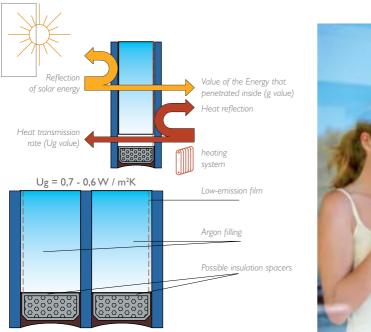
## Glass.

The glass of a window is the main element to determine the technical and also aesthetic performance of the whole unit. The choice of the glass, on the one hand, means energy savings on heating and air conditioning, and on the other, the best comfort by reducing noise and increasing safety; for these reasons it is best to choose the glass that is most suitable for each different need.

#### Thermal insulation

In trying to reduce the waste of energy, windows and doors have an important role. For this reason, all Agostini products have state-of-the-art, standard "thermal" glass with low emissions. They offer the ideal balance between thermal insulation, light transmission and solar protection.

To improve basic performance, Agostini proposes the possibility of inserting argon gas inside the chamber between the sheets of glass (thermal plus), double grazing with warm edge in substitution of the classical aluminium edge; or the use of 3 sheets of glass with double chamber (double-thermal plus).





By substantially reducing the heat bridge, the use of the warm edge is useful not only to improve the total thermal insulation of the doors and windows, but it also limits the formation of condensation near the border of the glass in unfavourable environmental conditions.



Insulation and safety

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#### Acoustic insulation

The high acoustic insulation guaranteed by the standard Agostini window can be improved by the use of special grasses for acoustic absorption. The noise insulating glasses can achieve over 50 dB acoustic insulation and are characterized by the high thickness of the glasses due to the special matching films (acoustic pvb), to the different thickness between the internal and external plate and to the wide gap between the glasses All the declared values have to be considered as estimated or laboratory data and cannot be guaranteed on action since the noise in an environment may change according to the external elements unrelated to the window itself.

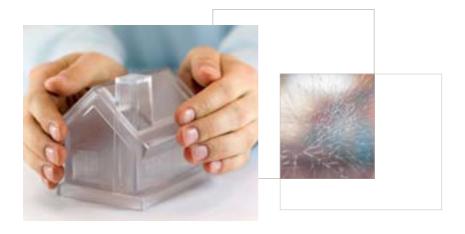




## Safety

The capacity to resist to impacts and not to generate cutting splinters in care of broken glass, proves the high level of security against burglary and injury. It is possible to obtain various levels of security matching a plastic material film (Pvb of 0.38 a 1.52 mm thickness) with the glasses.

The health and safety regulation states that all the glasses, which inferior part is located less than one meter from the ground, have to be at least 3+3 pvb 0.38 or 4 mm tempered for each side where there is the possibility that humans or animals can reach the glass. In this cases Agostini uses 3+3 con pvb 0,38 internal and external glasses, which provides also an anti-burglary function.



## Agostini alu-wood: colour range.

#### **Aluminium**

The range of colours for Aluminium proposed by Agostini alu-wood, varies from powder varnishes to electrolytic colouring obtained through anodic oxidation of the surface.

The powder varnishes offer RAL colours in glossy or matt, gothic, metal and sublimed wood effect. The colours in this range are the ones that are used the most, but windows and doors can be made using all the RAL and special colour varieties. The "wood

effect" finish on the aluminium is created through a sublimation process and not through powder on powder which is cheaper but less realistic. The sublimation technology with which the wood grain is reproduced on a varnished base, ensures compliance with the essence and characteristics of the wood. The wood effect proposed by Agostini alu-wood is enriched with a rough finish that makes it seem real even to the touch. The non-uniformity of colour and/or grain in one product was created

to highlight the natural effect of wood.

All varnishes are QUALICOAT guaranteed and have a 10-year guarantee.

All varnished products are processed with eco-friendly technologies. The superficial powder treatment, both for the normal colouring and the wood effect, guarantee maximum respect for the environment.

#### **RAL** and Special Colours







#### Gothic colours



Code: GOT-B Colour: Gothic White



Code: GOT-M Colour: Gothic Brown



Code: GOT-V Colour: Gothic Green



Code: GOT-G Colour: Gothic Grey



Code: GOT-R Colour: Gothic Red

#### Sublimed colours



Code: EL-BR Colour: Dark Bronze



Code: EL-NE Colour: Black



Code: EL-AC Colour: Steel



Code: SUB-CI Colour: Cherry



Code: SUB-CA Colour: Chestnut

Note: The colours in this catalogue are not to be considered as the "master" of reference, but are only approximate in that, for technical reasons, the final look could be slightly different.

## Agostini alu-wood: colour range.

#### Wood

To render every door, window and shutter exclusive, the internal Agostini wood has a wide array of essences with numerous variations in finishes. Besides the of the exclusive Agostini finishes is in the advanced varnishing techniques. The varnishing cycle used consists of 6 coats and it is one of the most advanced and modern technologies possible

to guarantee the best result in durability and aesthetics of the windows. Archimede, with an eye for environmental protection, uses only selected wood from controlled reforestation zones

#### Beech

Beech is the most typical tree in Central Europe. Of the hardwood family, the tree can reach 20-30 metres in height with thick and dense foliage. The wood, white-pinkish in colour, is rather hard and compact and not elastic, but resistant. It has a light grain and can be tinted easily in any desired colour.



Code: FA-RO Essence: Beechwood Colour: Tinted Oak



Code: FA-CI Essence: Beechwood Colour: Tinted Cherrywood



Code: FA-MO Essence: Beechwood Colour: Tinted Mahogany



Code:FA-NO Essence: Beechwood Colour: Tinted Walnut



**Note:** Complementary products like boxes, sills, panels are not produced in solidwood and undergo a different varnishing cycle; it is possible that there can be colour differences with the windows and doors.

**Note:** The colours in this catalogue are not to be considered as the "master" of reference, but are only approximate in that, for technical reasons, the final look could be slightly different. Due to the nature of wood, slight shade and grain variations in each wood piece.

Availability and delivery times can vary based on the different colours.

Colours range

68 / 69

agostinialu-wood



#### Ash

Ash is a plant of the Oleaceae family, native to the temperate areas of the northern hemisphere. It generally grows quickly and can survive in difficult environmental conditions, like polluted or salty areas or areas with strong winds, and it also resists well in low or high temperatures. Ash wood is largely used because it is robust and, at the same time, light and flexible.



Code: FR-M Essence: Ash Colour: Honey



Code: FR-C Essence: Ash Colour: Leather



Code: FR-CA Essence: Ash Colour: Coffee



Code: FR-S Essence: Ash Colour: Sand

#### Brushed ash

Brushed ash is made even more appealing due to the "brushing" (relief) technique that enhances its grain, both to the touch and eye.



Code: FR-SB Essence: Ash Colour: Brushed White

## PVC Agostini: colours range.

#### **PVC**

Agostini PVC doors and windows are proposed in two standard colours, White and Ivory. The other colours and finishes are produced by laminating the extruded PVC surfaces with an acrylic film through a "heat" application. During this procedure, a PVC strip with the typical grain of the wood is used; to make the resemblance with the original model even more effective, it is embossed so as to give a pleasant tactile and visual impact.

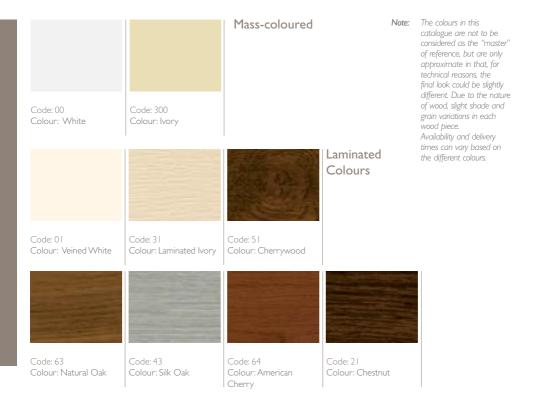
Agostini has decided not to offer other "mass" colours, even if possible, in that they do not offer any guarantee of colour stability in time. The colour change allowed by the DIN 54001 norm must be maintained below grade 3 of the scale of greys and Agostini guarantees this stability for ten years.

The film is a 200 micron-thick multi-layer material with optimal resistance to the elements and sun rays. The more external layer is composed of a transparent PMMA (polymethylmethacrylate) film that is highly resistant to the elements and UV rays.

The film is glue together with polyurethane glue.

The adhesive is spread both on the extruded PVC and the acrylic film and is activated with light heating; the due elements are immediately put into contact through the automatic movement of the reel with the film and pressed together making them pass simultaneously under a series of rolls.

PMMA can be used up to 90°C/100°C without losing its physical-mechanical properties.



## PVC Agostini: TotalColor.

Total Color colouring allows us to obtain a frame with a total "wood-effect" by eliminating, in an innovative way, the colour contrast between the wood-effect film and the mass-coloured PVC. The film is applied both on the interior part of the frame as well as the sashes giving a surprisingly realistic effect. Today, thanks to Total Color, the window will look like a wooden window even internally by combining the pleasant aesthetic effect with the technical performance of PVC.





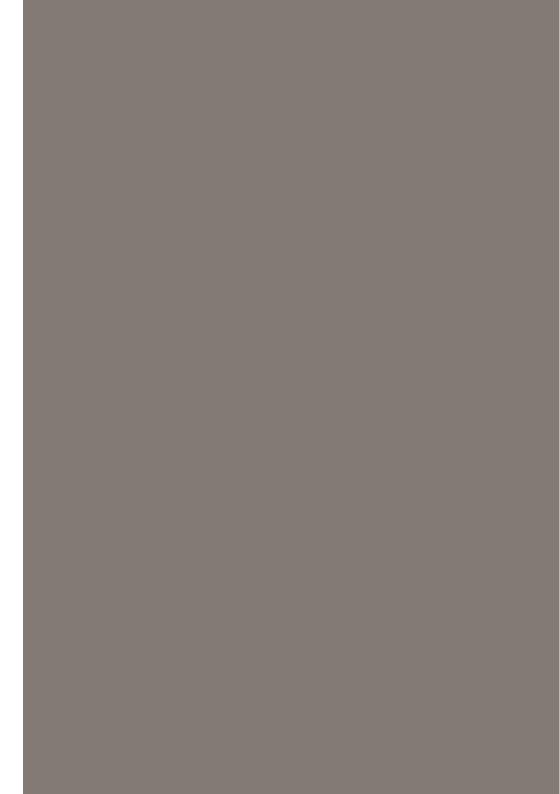


**Total**Color®









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