



Premium wooden windows  
and doors since 1951



# State-of-the-art wooden doors and windows by Athos

Athos wooden windows are made in one of the largest and most modern factories in the Balkans. They are high-quality products of Greek production and genuine German technology.

Our factory is located in Ierissos, Halkidiki. Also, Athos products have been designed in collaboration with the best German mechanical equipment companies, such as Weinig, Leitz, and others. In addition, Athos doors and windows are produced with first quality raw materials, which are accompanied by quality certificates.

## An Interesting Story that Started in 1951

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Our company's history begins in 1951 when Theofanis Kolympas learns the art of wood on Mount Athos. At that time, he started making his first traditional handmade wooden windows and doors. His purpose was to serve his fellow villagers in his favorite village, Ouranoupoli, Halkidiki, Greece.

He gradually increased his equipment and began to apply more productive production methods. That is, he modernized his workshop, although he maintained the same commitment to quality.

After a few decades of conservative and systematic development, his two sons took over the business. With the help and experience of their father, the two brothers expanded the business to cover new markets.

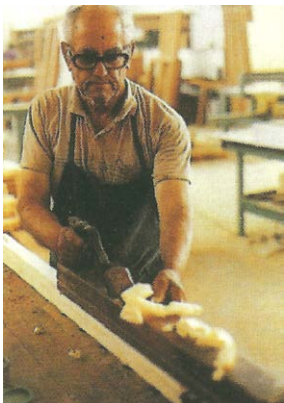
## Athos Today

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With the company's continuous improvement, the investments in new state-of-the-art mechanical equipment, and the commitment to quality, Athos took its modern form. Nowadays, Athos serves the whole of Greece and regions abroad, producing high-quality wooden doors and windows in its production unit that houses spaces of more than 8,000 sq.m. warehouses and maintenance workshops.

### Athos Quality Declaration

All Athos constructions are characterized by the same high principles of production quality and aesthetic perfection. Special treatment, application of innovative state-of-the-art technology techniques, selected materials and strict European certifications guarantee excellent behavior in climatic fluctuations, resistance to damage, and high indicators of thermal and sound insulation.





experience  
since 1951

premium  
quality

German  
technology

Greek  
production

custom  
products



sales support

product design

manufacture

installation

after-sales support

**TOTAL SOLUTION**

# German Production Technology

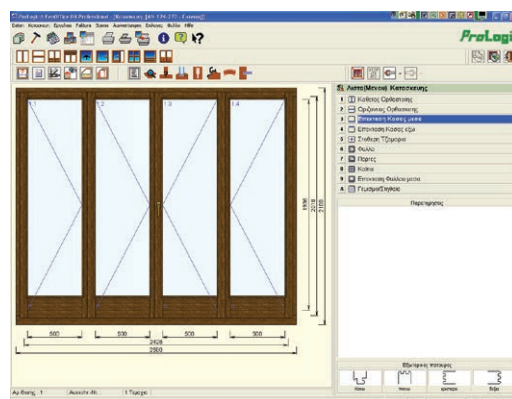
We are one of the first companies in Greece, which incorporated German technology in wooden windows and doors. German-technology products are characterized by the profile (cross-section), which gives greater strength, thermal insulation, and sound insulation to the products.

In addition to the profile, more factors help in the excellent construction of German-technology doors and windows. These are the software, the machines, and the style. The design and production software was developed in Germany by ProLogic. Our main mechanical equipment was made by WEINIG and the knives by Leitz, the leading companies in their field.

## Product Design

The design and manufacturing of wooden doors and windows are very demanding processes, during which errors and imperfections can occur. That's why Athos has obtained the software suite of the German ProLogic, which is perhaps the complete solution in the world. The software manages the clients, designs, costs, and products while communicating with the production machines to produce the final product.

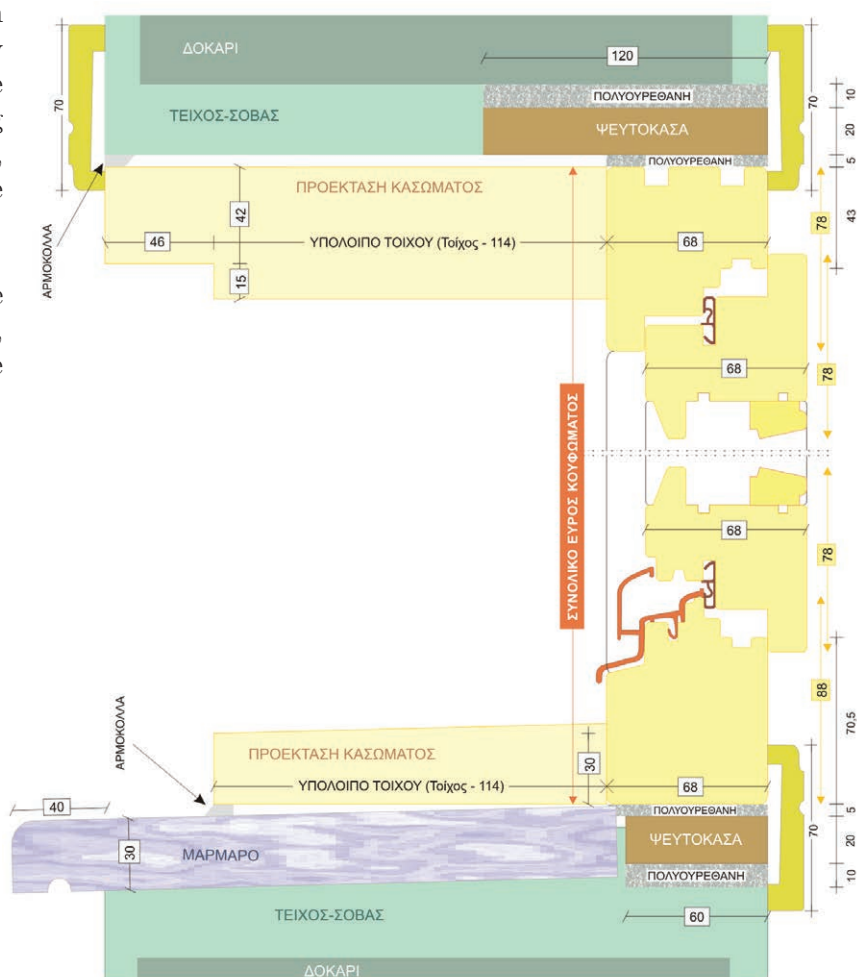
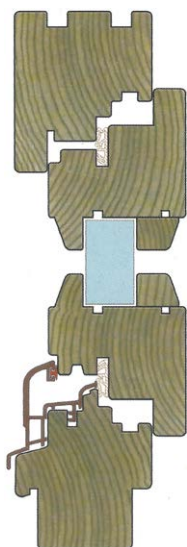
In this way, Athos ensures the organized and coordinated production of its products without production errors, delays, and damage to the project.



## Profile

Athos products are designed in collaboration with the world's leading German window processing tooling company Leitz. Thus, the windows are fully functional while ensuring superior mechanical properties. Furthermore, full compatibility of the subsystems of the windows with each other is guaranteed.

The latest technology and German profile design combined with excellent wood quality, double glazing, and insulating rubber achieve maximum thermal insulation.







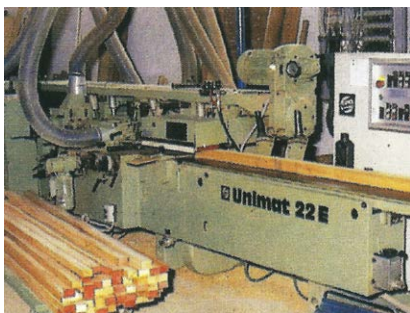
## Dryer

In the dryer, moisture is removed from the wood to maximize its resistance to time.



## Cross Cutting Saws

In continuous online communication with the computer, we chop the wood giving the right dimensions to the raw material.



## UniMat Moulding

In the next stage, we shape the wood to its exact dimensions. High technology provides excellent specifications for Athos quality.



## UniControl Center

UniControl is one of the most modern machines in Europe. Here, the wood is processed to become "male-female" and takes the final profile.



## Hydro Lux

The individual wooden parts of the window, which are ready in dimensions and form, are glued under pressure to create the window's final form.

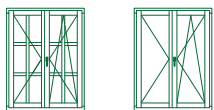


## Masterwood CNC

The latest technology in the manufacture of wooden frames is CNC. All circular and challenging tasks, the installation of hinges and locks, are done with absolute precision.

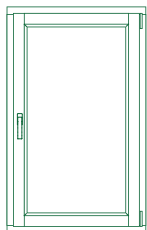
# Windows

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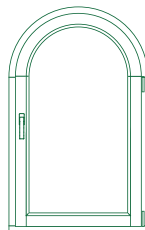
German-technology wooden windows of high-standards and amazing durability.

## Tilt and Turn Rectangular Windows



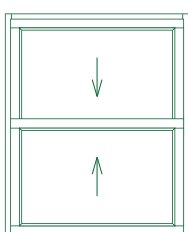
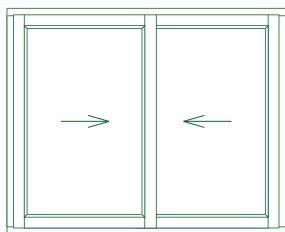
Tilt and turn wooden casement windows. They are the epitome of German technology windows and are recommended for most projects.

## Tilt and Turn Arched Windows



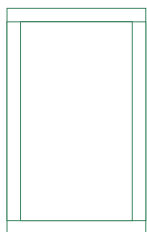
Arched wooden windows with any height and arch dimensions. They are a great choice for projects seeking architectural upgrades.

## Sliding & Guillotine Windows



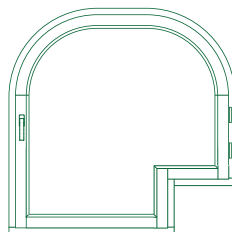
Sliding and guillotine windows have advanced mechanisms from the leading European brands and robust design. They are used for project with special architectural needs and wherever space saving is desirable.

## Fixed Windows



We have fixed wooden windows for the openings of the buildings in which there is no opening will. In essence, they are glazing with wooden frames or even sheets without mechanisms.

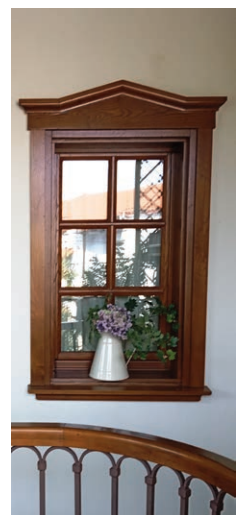
## Custom Windows and Systems



Beyond any popular design, Athos undertakes to design and manufacture windows to unique specifications. Imagine it, and we make it!









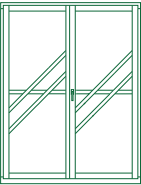


Wooden balcony doors for maximum durability and functionality



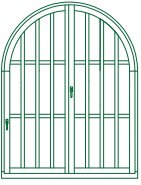


### Tilt and Turn Rectangular Balcony Doors



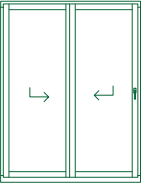
Tilt and turn wooden casement windows. They are the epitome of German technology windows and are recommended for most projects.

### Tilt and Turn Arched Balcony Doors



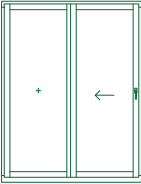
Arched wooden windows with any height and arch dimensions. They are a great choice for projects seeking architectural upgrades.

### Sliding Balcony Doors



Tilt and turn wooden casement windows. They are the epitome of German technology windows and are recommended for most projects.

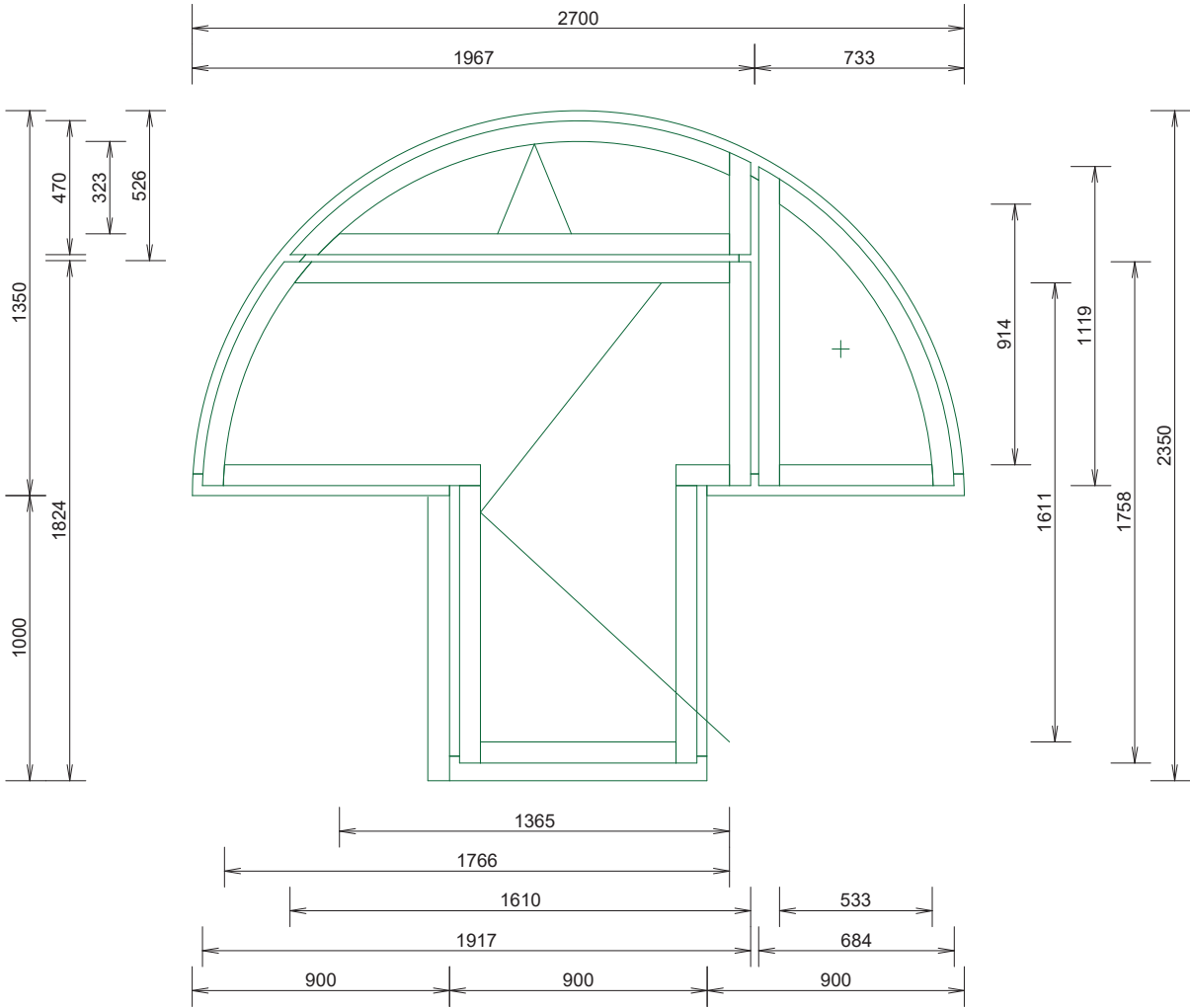
### Bi-Fold Balcony Doors



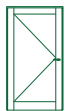
Arched wooden windows with any height and arch dimensions. They are a great choice for projects seeking architectural upgrades.

## Custom Fenestration

Athos is able to undertake any special construction of wooden doors or windows. Our software combined with our many years of experience allow us to deliver doors and windows for all needs.



# Exterior and Interior Doors



Wooden doors of modern technology, robust structure, and timeless value

## Traditional Exterior Doors

Athos opening wooden doors are found in thousands of buildings and give the first impression of quality building construction. Traditional front doors can combine panels and glazing with infinite designs and patterns. If necessary, Athos can also fit ironmongery to the glazing in any shape. The client specifies handles and other features, while Athos recommends a few options that have looked beautiful in previous projects.





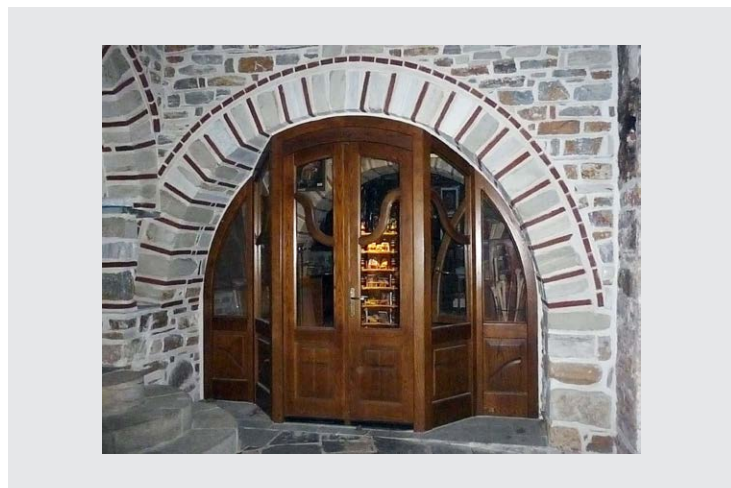
## Arched Exterior Doors

Arched timber exterior doors is a great chapter in Athos' expertise. There's no better idea than a custom-built arched front door to grace your building. Arched doors can have fixed glazing and skylights around the perimeter with each structure. The inner frame of the movable sash can be rectangular or follow the geometry of the outer frame.



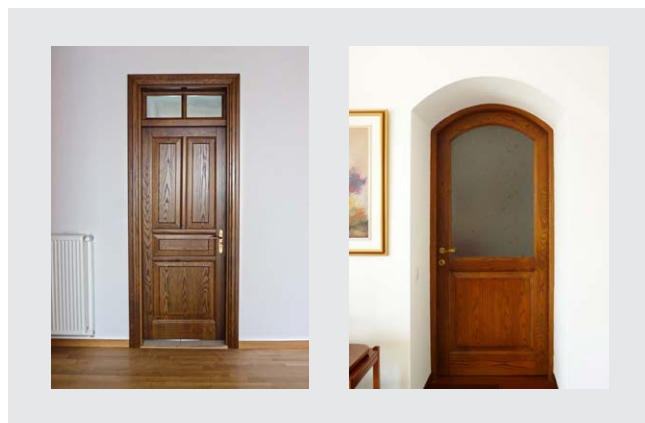
## Custom-made Wooden Doors

Due to our great experience and our modern equipment, we can design and manufacture doors of special specifications. In other words, we can produce "difficult" doors for our customers. In the photo below, you can see a wooden door with a three-dimensional arched frame, curved quays, and panels with religious motifs.



## Custom-made Interior Doors

Athos manufactures wooden interior doors for the projects in which its wooden front doors and wooden windows are installed. This contributes to the similarity of the exterior and interior windows. The interior doors can be solid, semi-solid or pressed. Again, there are many options of personalization possible, as in the photo where there is a skylight.

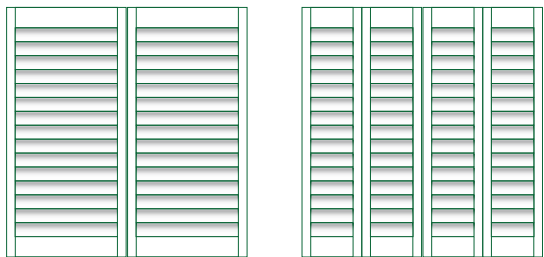


# Shutters

Shutters can be used for a variety of reasons, such as controlling the amount of sunlight entering a room, protecting privacy, security, protection from the weather or unwanted intrusion or damage, and improving the aesthetics of a building.

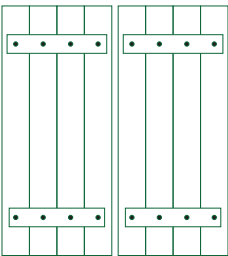
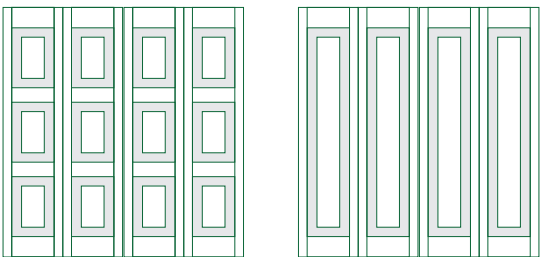
## French Type Shutters - Blinds

French-style shutters (also known as blinds) consist of a perimeter frame and shutter blinds. They allow very little light to enter and are the most common choice.



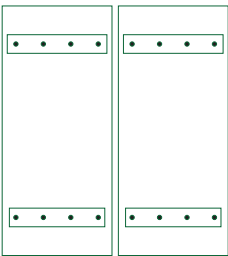
## Paneled Shutters

Paneled shutters (also known as blinds) consist of a perimeter frame and panels. They do not allow light to enter the room and provide complete blackout.



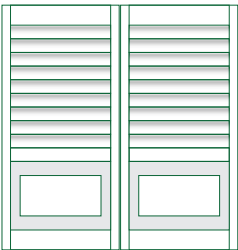
## Rambote

The rambote shutters consist of successive wooden boards that are joined together. They do not allow light to enter the room and provide complete blackout.



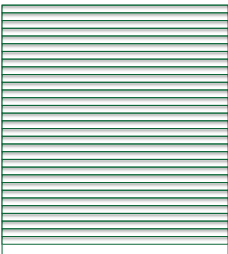
## Made of Plywood

Marine plywood shutters are not made of solid wood, but of marine plywood. They do not allow light to enter the room and provide complete blackout.



## Combinations

Athos is capable and experienced in the manufacture of shutters with a mixed type of design. The customer has to think about the design and we can make it!

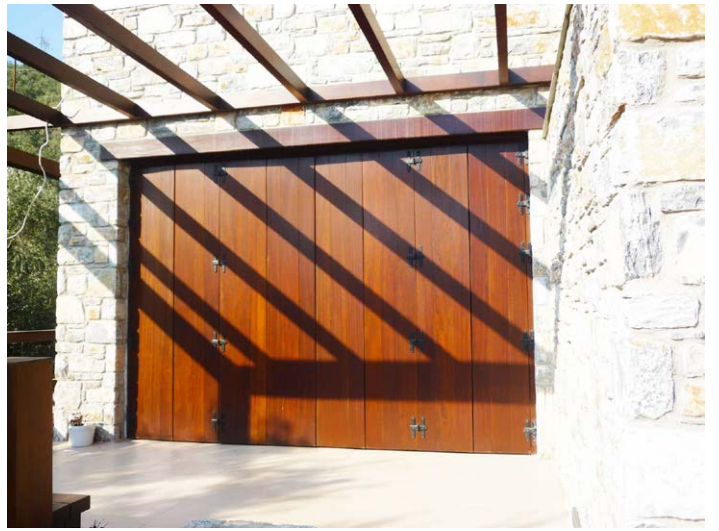


## Roller Blinds

These shutters are similar to the common blinds used for aluminum and uPVC synthetic frames. If they do not need to be fitted to a building, it is advisable to avoid them.









# Profile

Athos wooden windows are designed in collaboration with the world's leading German window processing tooling company Leitz. Thus, the windows are fully functional while ensuring superior mechanical properties. Furthermore, full compatibility of the subsystems of the windows with each other is guaranteed.

## Light 46mm

Wooden windows with a 46mm profile are the choice for special projects such as listed buildings. Due to its small thickness, it causes limitations and provides lower thermal and sound insulation indices.

## Plus 78mm

For customers who want something extra in wooden windows, the 78mm profile is the safe choice. With improved energy efficiency, it offers value to the building where it is installed.

## Optima 68mm Basic choice, regardless of the volume of the project

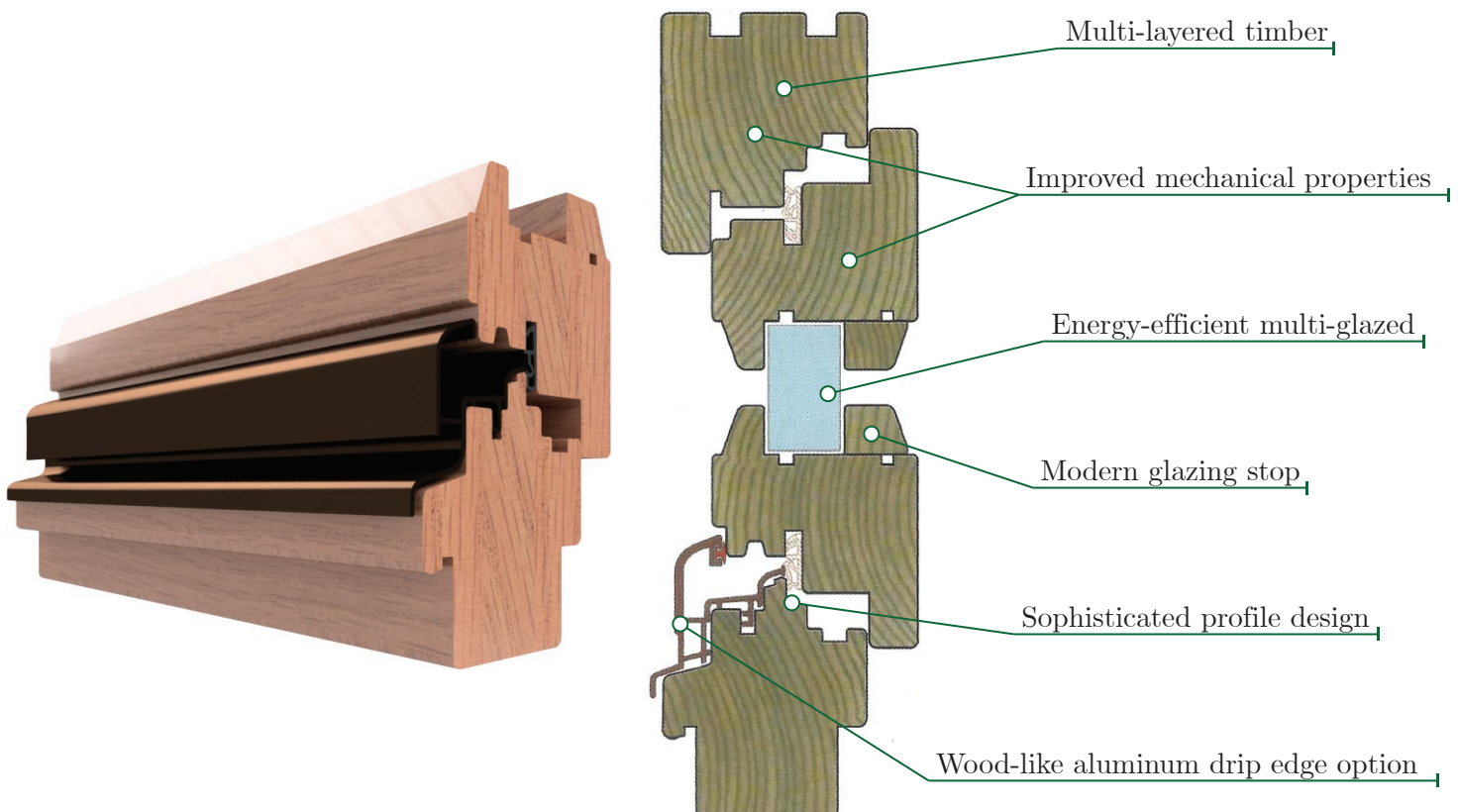
Wooden windows with a 68mm profile are the most common choice. The reason for this is the excellent value for money. The 68mm profile is the key selection of our production.

## Pro Thermo 92mm

For the most demanding projects in terms of value and thermal insulation, Athos recommends the 92mm profile. This profile is a luxury window feature, but one that may be necessary for cold areas.

The profile of the wooden window is crucial in its energy efficiency. However, it is natural that the thicker it is, the more it costs. For this reason, Athos suggests using the 68mm profile for most customers. The 46mm profile is the most economical, but it limits the options for the rest of the window. The 78mm profile is a better solution for customers looking to recoup their extra costs by reducing building losses. While finally, the 92mm profile is recommended for buildings in areas with severe weather, as they reduce thermal conductivity and outdoor sound.

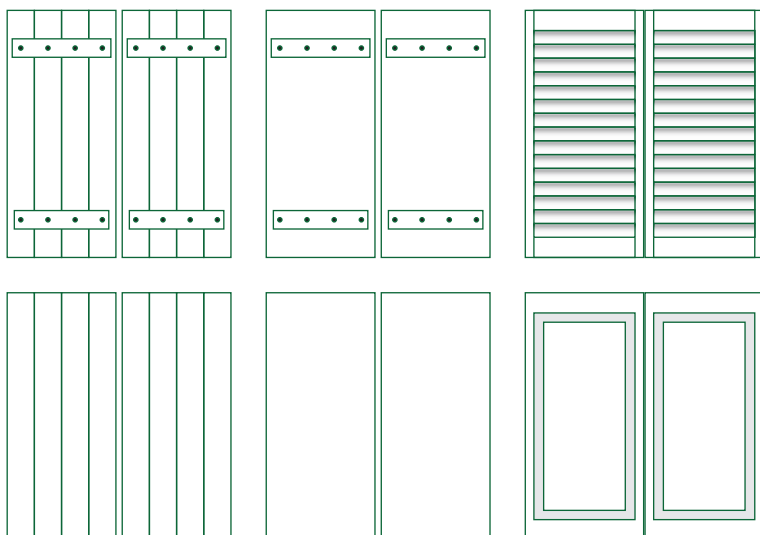
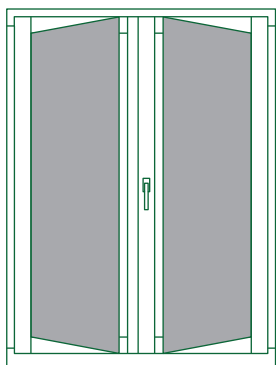
### ATHOS RECOMENDS





## Interior Shutters

Athos wooden windows are designed in collaboration with the world's leading German window processing tooling company Leitz. Thus, the windows are fully functional while ensuring superior mechanical properties. Furthermore, full compatibility of the subsystems of the windows with each other is guaranteed.



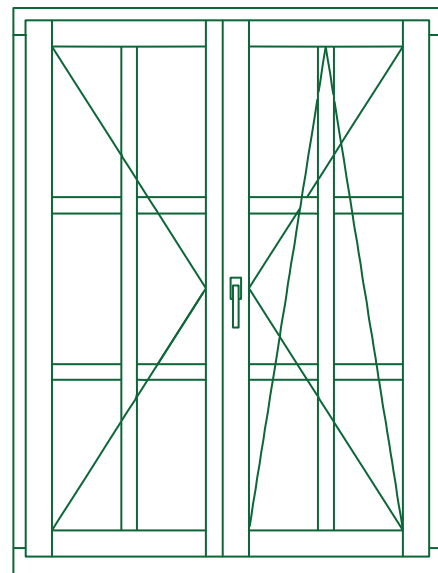
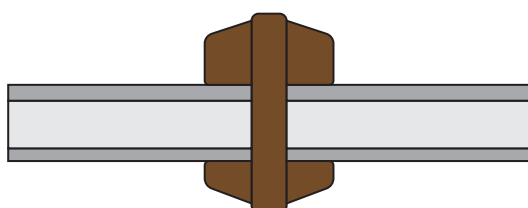
## Frame Extension



Athos manufactures windows and doors with frame extension option. The frame extension is typically used to cover the thickness of the wall so that the frame can be placed further into the building for weather protection. Furthermore, it is used when there is a screen or shutter. Usually, the frame is made 140mm, 190mm or larger.

## Muntins

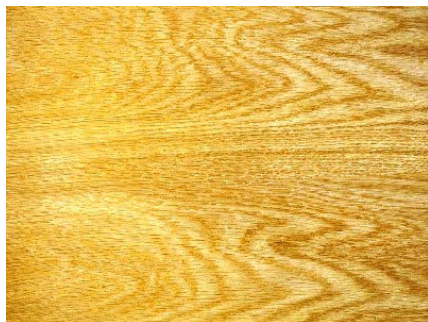
Muntins separate and hold panes of glass in a window, balcony door or glass-door. It is used for decorative purposes. Athos makes doors, windows and balcony doors with massive muntins, that divide the glazing into several panes. That is, it doesn't just surround the glass, but separates and supports it.



# Timber Species

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Shutters can be used for a variety of reasons, such as controlling the amount of sunlight entering a room, protecting privacy, security, protection from the weather or unwanted intrusion or damage, and improving the aesthetics of a building.



## American Oak

American Red or White Oak windows combine durability and aesthetics. It is the right choice in the construction of quality windows. A leader in timber!



## African Iroko

African Iroko timber is harder. For this reason, iroko windows tend to withstand environmental exposure.



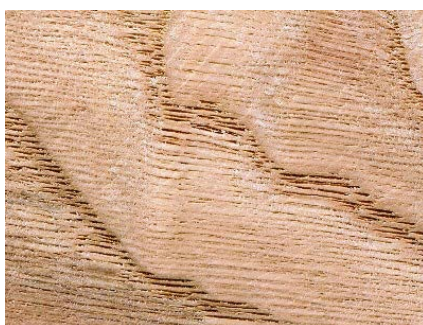
## Malaysian Meranti

Malaysian Dark Red Meranti timber is the mainstream choice. This is because of the excellent quality/price ratio, especially for windows with opaque paint that does not show the wood grain.



## Swedish Pine

Swedish pine is cheap timber with which we produce wooden frames. However, pine loses in the battle of quality to other varieties.



## Greek Chestnut

Greek chestnut is usually the choice for traditional architecture cases. Thus, it is rarely chosen and only by some customers.

### Sustainable forest management

Athos uses timber from sustainably managed forests. This means that the woods are not damaged but sustained. One example is the fact that more trees are planted than are cut down.

### Infinite kinds of timber

Due to the high range of customization of Athos' products, you can choose more timber types than mentioned above. Wood that is occasionally needed is Niagon.

### Choose the proper species of timber

For the best quality, and for windows with translucent coatings, we recommend Oak timber, the king of wood types! However, the main choice is Meranti timber, which we recommend for doors in RAL color. For increased moisture resistance, we recommend Iroko timber, while for lower cost we recommend Pine timber. Finally, we recommend Chestnut timber for special architectural needs.



# Coatings

Add to the durability of the timber and components of a window; coatings contribute decisively to the appearance of the window frames. For this reason, we choose to use the most advanced European-made coatings.

## Coatings made in Italy

### Sayerlack

Sayerlack HydroGold is a top-quality paint system for wooden windows, for which the Italian manufacturer states that it lasts up to 18 years. It is water-based and therefore environmentally friendly. Sayerlack Finest solvent-based coatings have noticeably better coverage and appearance but are less environmentally friendly.

### ICA

ICA Arborea paint systems are water-based and are an excellent choice for most of our projects. Their correct application tends to determine the final finish. ICA Bio are modern and organic coatings produced in an extremely ecological way, even from tree leaves. However, Athos does not yet have sufficient data on their durability.

## Coatings made in Germany

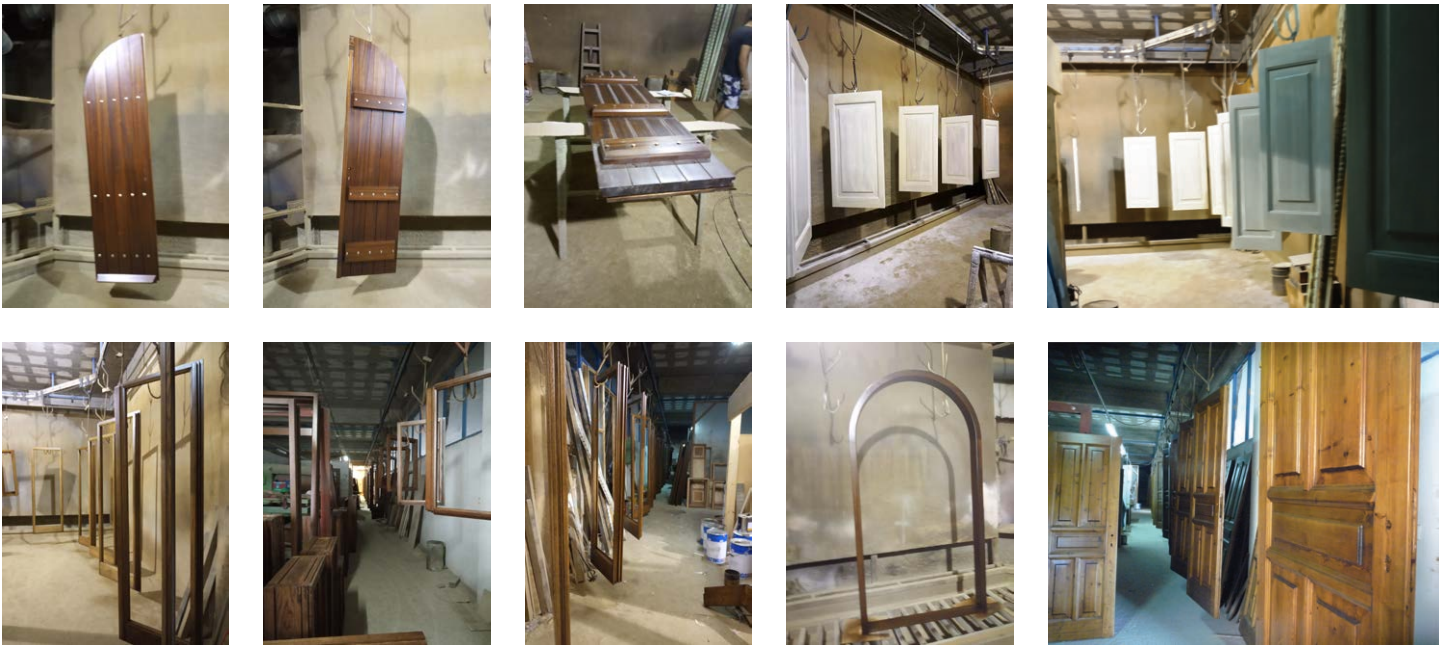
### Remmers

Remmers solvent-based wood preservatives have been continuously developed to meet the strictest standards. With Remmers water-based wood protection systems, Remmers goes one step further: the products offered belong to the next generation, much better than the traditional products based on solvents.

### Zobel

Zowo-tec water-based products reliably ensure the necessary protection of the natural product wood from UV and moisture stress and preserve the natural wood grain.

|   |                |   |                     |
|---|----------------|---|---------------------|
| Natural Red Oak   |                | Colored Red Oak   |                     |
|  |                |  |                     |
|   |                | impregnation<br>primer<br>coating/paint   |                     |
| superior quality  | tested results | natural stain feel  | environment frendly |
| ATHOS RECOMENDS   |                |   |                     |



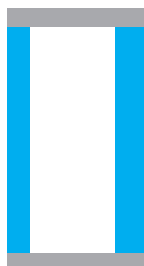
# Glazing

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Window glazing plays a crucial role in the thermal and sound insulation of the building. For this reason, Athos uses double and triple energy glazing in the window sashes.

## Regular Glazing

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### Double 4-15-5mm

The glazing consists of two glass panes with air filling and a perimeter aluminum profile with special salts to protect against moisture.

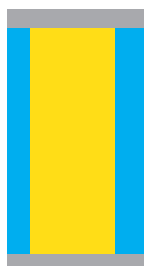


### Triplex 3-3-5mm

The glazing consists of three panes with air filling and a perimeter aluminum profile with special salts for protection against moisture.

## Low-E Glazing (Winter)

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### Double 2-Seasons

The glazing consists of two panes with Argon filling and an aluminum perimeter profile with special salts for protection against moisture. It is adapted to reduce thermal transmittance in winter. It has a thermal transmittance of about  $1.3 \text{ W/m}^2\text{K}$ .



### Triplex 2-Seasons

The glazing consists of three panes with Argon filling and a perimeter aluminum profile with special salts to protect against moisture. It is adapted to reduce thermal transmittance in winter.

## Low-E & Solar Control Glazing (Winter/Summer)

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### Double 4-Seasons

The glazing consists of two panes of glass with Argon filling and a peripheral aluminum profile with special salts to protect against moisture. It is adapted to reduce thermal transmittance in winter and in summer. It has a thermal permeability of about  $1.1 \text{ W/m}^2\text{K}$ .



### Triplex 4-Seasons

The glazing consists of three panes with Argon filling and a peripheral aluminum profile with special salts to protect against moisture. It is adapted to reduce thermal transmittance in winter and in summer.

## More options of glazing

When the project's needs require special glazing, Athos is ready to install it. Instances where Athos installs special glazing in its wooden windows, are Church and Monastery projects.

## Choose the right glazing type

In all windows, of all materials, the glazing significantly determines energy efficiency. That is, the glazing is always a better insulator than the frame and the casing. For this reason, it is worth being double and Low-E. At an extra cost, it's also worth being triple glazed. Non-energy glazing is not recommended by Athos, except in cases of narrow frames (46mm) and other special architectural needs.



# Screens

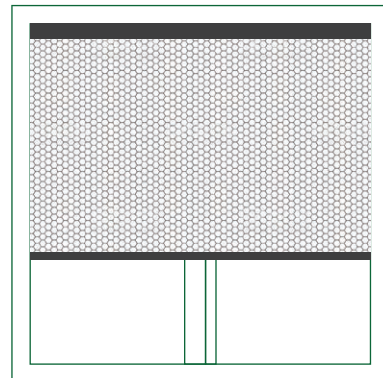
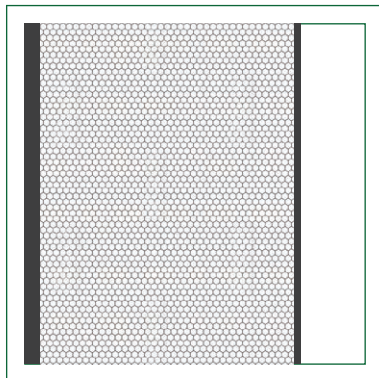
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A window screen (also known as an insect screen, fly screen) is designed to cover the opening of a window. It is usually a mesh of plastic wire and can be hinged vertically or horizontally or fixed.

## Movement Screens

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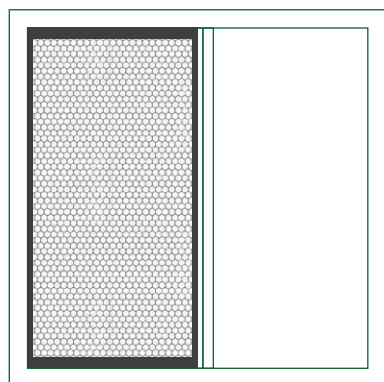
These are the screens made of durable plastic that open and close with a roller on the edge of the window. They can be opened horizontally or vertically. They are the choice of most customers.



## Sliding Screens

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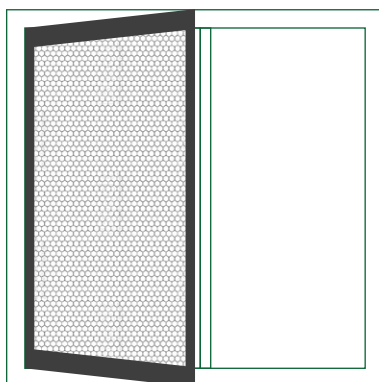
They are the screens that usually consist of two "crates" that move on a railway.



## Opening Screens

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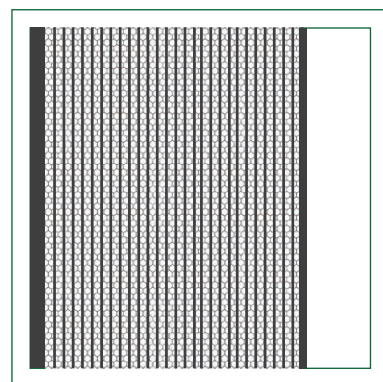
They are the screens that usually consist of a "crate" that opens like a door to the inside.



## Plisse Screens

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These are the screens made of durable plastic that fold up at the edge of the window. They can be opened horizontally or vertically.



## The Installation of the Screens

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It is advisable to place the screens during the production of the window as it saves time and unnecessary costs.



# Hardware

The outline mechanism systems of each window contribute to the functionality, durability, and safety of each window. Thus, we use only high-quality hardware made by leading European manufacturers.

## Windows and Balcony Doors

### Tilt & Turn Positions

For tilt and turn windows and balcony doors, we install hardware made by the leading SIEGENIA.

### Shutters

When the wooden shutters are made of Meranti, Oak, Iroko or similar quality wood, Athos uses German hardware made by MACO. For the wooden shutters that are made of Pine, Chestnut, or similar quality, Athos uses hardware made in Greece.

### Tilt Only Positions

For opening wooden windows, we install hardware made by the German SIEGENIA and ANUBA hinges of the Italian AGB.



## Exterior and Interior Doors

At the main entrances, the locks are one-point security locks of the Italian brand AGB, while the hinges are of ANUBA type by the same brand. There is the option of three-point locks (top-middle-bottom).



3-points lock for exterior doors





## Handles

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In the wooden sashes, Athos uses handles from the leading German brand HOPPE for great design, functionality, and quality.



Verona



Tokyo



Hamburg



Amsterdam



Brindisi



### Design

These are some of the mainstream handle designs. There are many more available.



### Finish

These are only some of the available handle colors.

## Maintenance

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We do not want to hide that all wooden doors and windows need maintenance. However, we emphasize that maintenance is not an expensive and time-consuming process.

Athos is there for its customers to assist in selecting the right maintenance materials, finding genuine repair parts and providing guidance to local personnel for proper maintenance.

## Installation

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The installation by our company's crews contributes to the proper operation of the windows we offer. The crew that undertakes to install frames must correctly install each door and window. If they are installed correctly, then their proper functioning is ensured and their lifespan is greatly increased. Window installation should be done by experienced and qualified companies like Athos.

At the same time, Athos provides guidance on the correct installation of its products. While it can provide placement guidance personnel all over the world.

## Warranty

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The guarantee of good operation with which the products of our company are accompanied by are not in small print. Depending on your order, we provide a multi-year guarantee of good functioning of our products. Thus, you feel and are safe in any possibility of defect.

# Certifications

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The production of Athos is in line with European standards. As a result, its products have certificates of quality and sustainable raw materials. Depending on the needs of each customer all over the world, Athos can provide additional certificates.

## CE - Product Quality

All products of Athos are CE certified. This ensures the excellent mechanical properties of the windows and doors, such as energy efficiency.

## ISO

Athos is ready to ensure the production quality according to ISO certificate, if there is need by the customer.

## PEFC & FSC - Sustainable timber

Athos buys timber from forests with a Sustainable Forest Management System. In these forests, "more trees are planted than those that are cut."

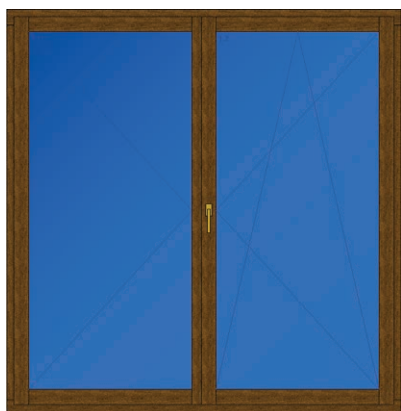
## Greek Manufacturers Association

Athos is one of the first members of the Panhellenic Association of Manufacturers of Wooden Fenestration.

# Energy Performance

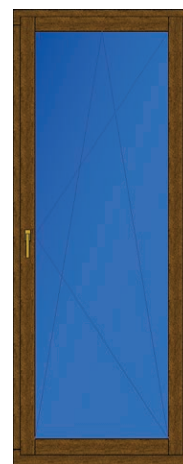
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Below, you can see the energy efficiency of our products. The prices are calculated for Athos products if they are made with American Oak and 1.1W double glazed energy efficient glass. The U-values are calculated under EN-ISO 10077-1. Due to the high energy efficiency, all state requirements are usually met.



### Wooden Window

Width: 1940mm  
Height: 1980mm  
U-value: 1,5 W/(m<sup>2</sup>K)



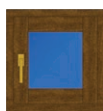
### Wooden Balcony Door

Width: 880mm  
Height: 2250mm  
U-value: 1,5 W/(m<sup>2</sup>K)



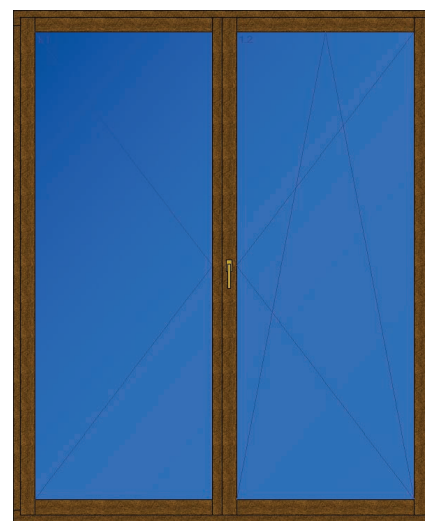
### Wooden Window

Width: 1280mm  
Height: 1250mm  
U-value: 1,7 W/(m<sup>2</sup>K)



### Wooden Window

Width: 480mm  
Height: 520mm  
U-value: 2,0 W/(m<sup>2</sup>K)



### Wooden Balcony Door

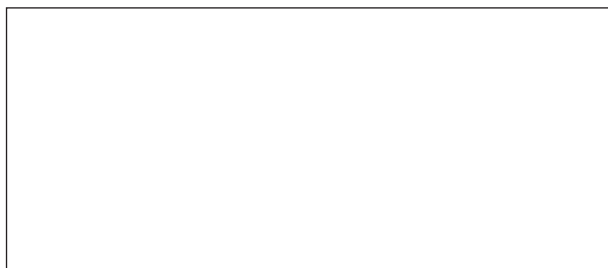
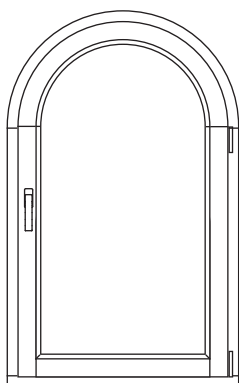
Width: mm  
Height: 2520mm  
U-value: 1,4 W/(m<sup>2</sup>K)



## Notes



# ATHOS



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