

aluminum systems  
**albau**



**2024**

[albau-usa.com](https://albau-usa.com)



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## About Us

Albau Aluminum & Glass System LLC is a manufacturer of modern aluminum enclosure systems based in New Jersey.



Our dedicated teams specialize in the manufacturing and installation of all the products we offer, providing end-to-end service. We address seasonal issues in your homes and workplaces by creating solutions with modern and intelligent aluminum-glass systems. How?

We design the outdoor space you envision together. In our projects, we use innovative, environmentally friendly, technologically advanced, and smart systems to quickly manufacture them.

We offer these aluminum and glass systems, which can be remotely controlled, integrated with features, with long-term warranties and service support that begins after installation.

Albau Aluminum & Glass System LLC, provides solutions for seasonal problems like movable roof, winter garden, guillotine glass, sliding glass, garden fence, zip curtain and windbreak that can all be integrated with your smart phone so that you can have all the control at your finger tip.

**We provide project - manufacturing and assembly services in America and Canada.**

*It's time to make your dream home and office.*

## Product Catalog

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## MOVABLE ROOF

- Bio-climatic
- Rolling Roof
- Pergola



Made in USA



## MOVABLE ROOF

### BIO-CLIMATIC ROOF SYSTEMS

It is a bio-climatic system with unique functionality and superior quality.



Smart and technological, these roof systems are highly durable against challenging weather conditions with their aluminum structure.

It can be controlled via remote control and optionally through a phone.

Smart roof systems, can be produced in different sizes and dimensions according to the desired project such as winter garden, terrace, veranda, cafe - restaurant and social facilities.



5 years  
warranty



4 Seasons  
Protection



Smart Systems



Technical  
Support



Professional  
Quick Assembly

## Design

They are ergonomically designed, offering the unique feature of axial movement up to 105 degrees and the ability to completely retract, making them the only system of its kind in the world. This allows for ventilation and adds a sense of spaciousness to the space.



The motorized system that allows the free movement of the lamellae is located inside the system. Prevention of noise caused by lamellae with the use of gaskets. And water which may leak through on one side with strap. Lamella are collected on one side owing to strap.

There are led channels in the interior of the gutter. And also light adjustable owing to dimmer. It is used in large area as by bringing the system side by side.

Delivery Time : **2 - 3 Weeks**

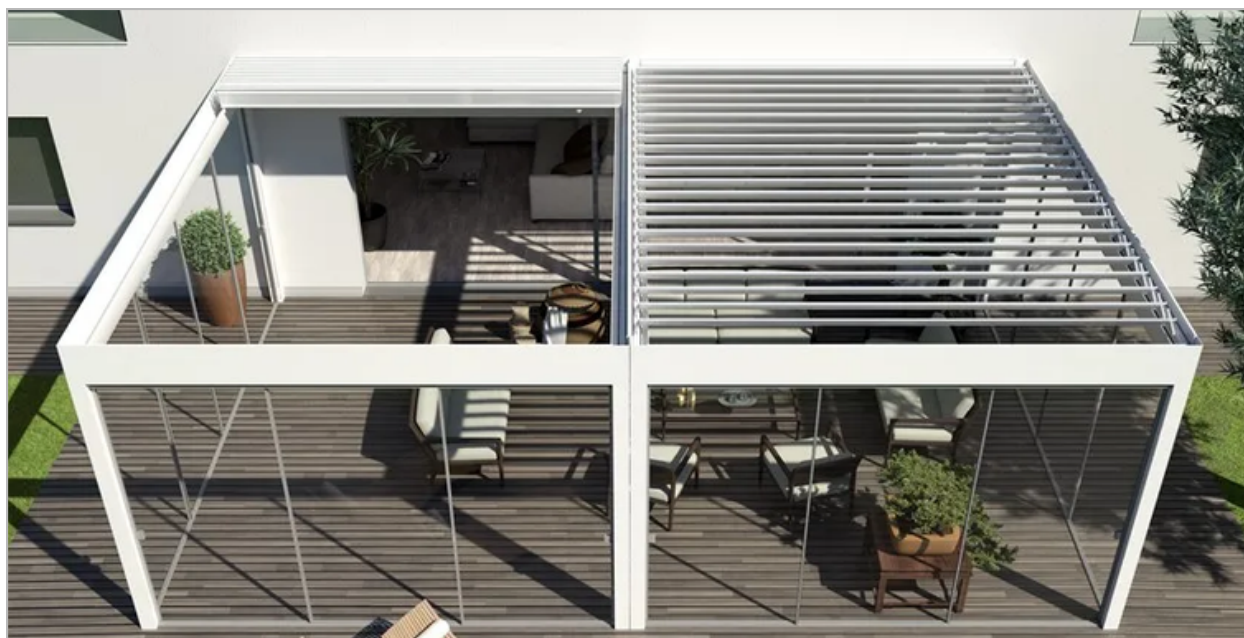
Engine : **SOMFY**



## Introduction

Why should I have a movable roof?

- Thanks to its heat and water insulation, it provides comfort in 4 seasons.
- Concealed channels on the rotating panel surface prevent water accumulation.
- It provides energy savings through thermal insulated panels.
- It can withstand up to 8 feet of snow depending on its size.
- It gives vitality to the space with LED lighting.
- Optional color are available.



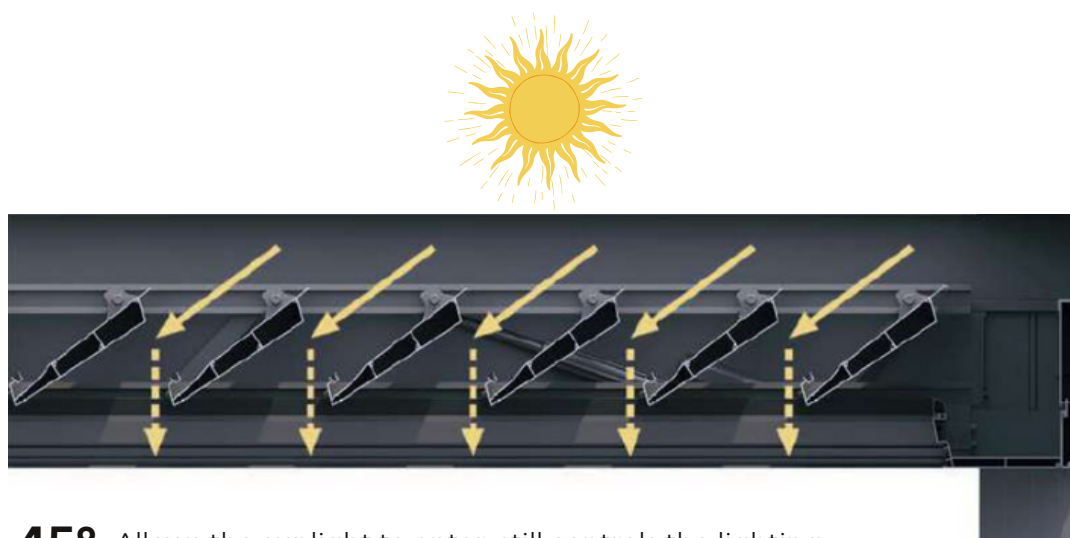
## Lamella Movement

Provides maximum air using of the pergola at different times, free rotation of the lamella between **0°** and **105°**

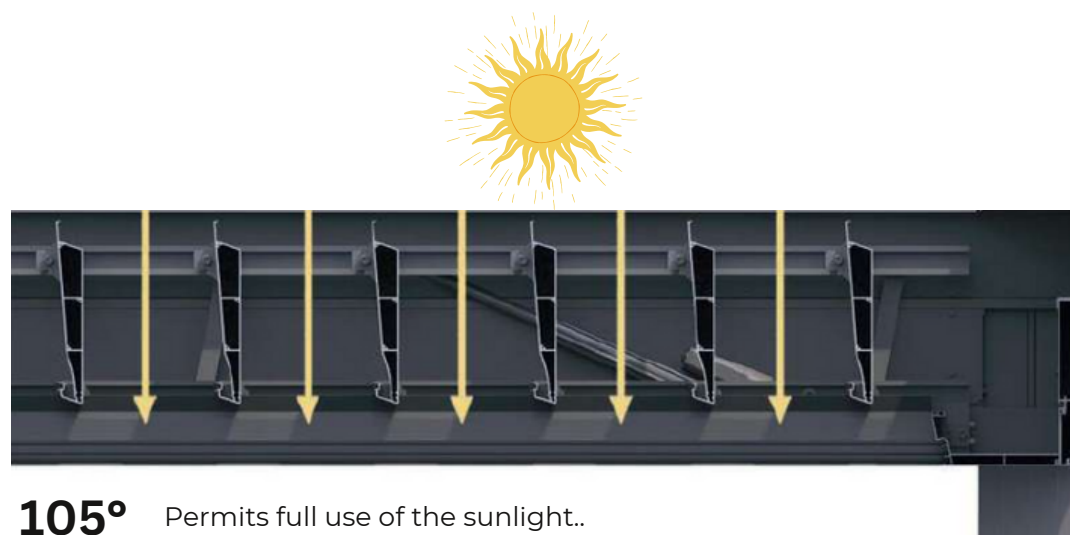


**0°** Provide the ventilation of the area even if it is raining or snowing.

**5°** Provides protection from all weather conditions the roof remains closed.



**45°** Allows the sunlight to enter, still controls the lighting.

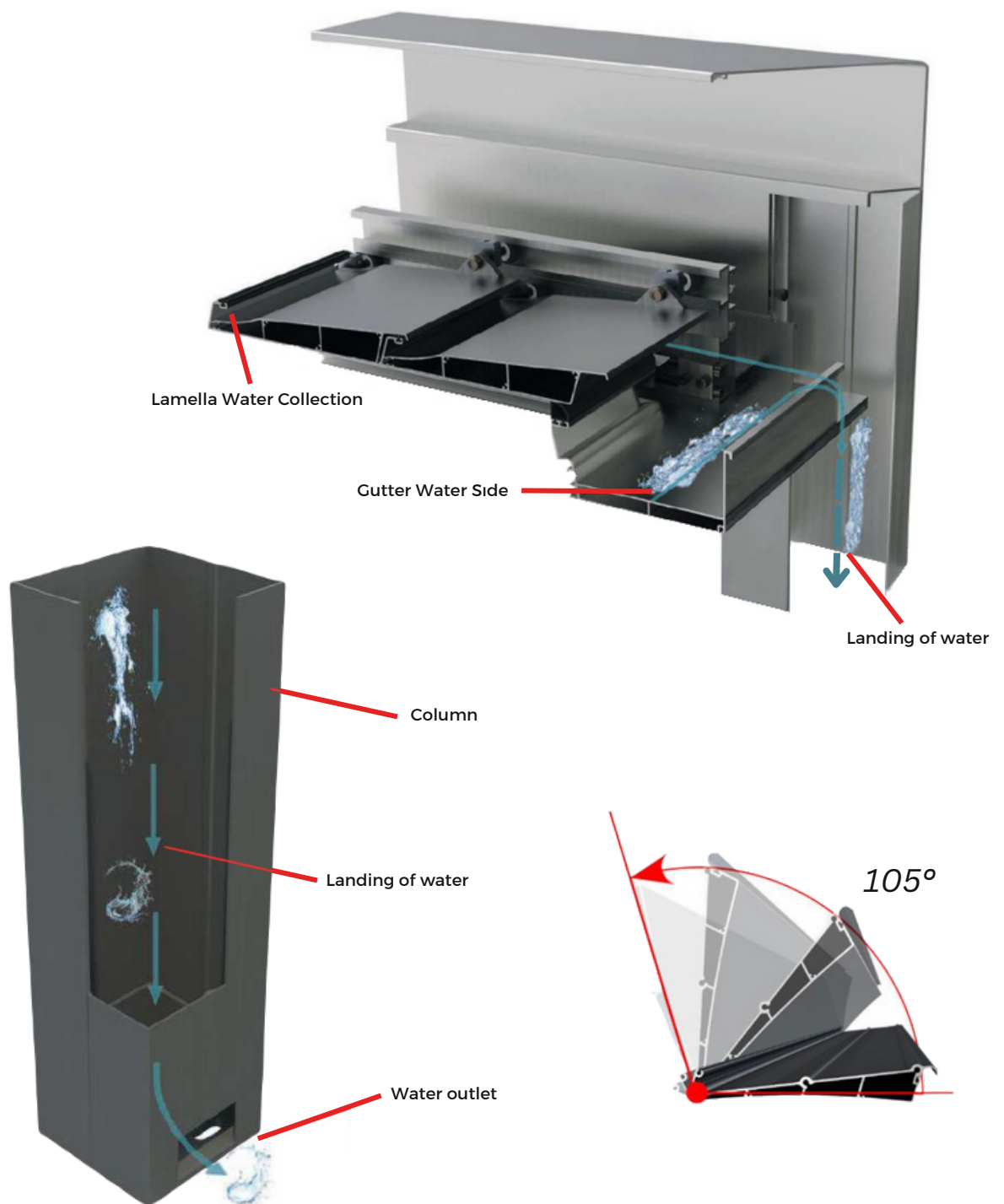


**105°** Permits full use of the sunlight..



## Rainwater Drainage System

Bioclimatic Pergola is designed to collect rainwater. The water is directed to side beams of lamella. And then rain water is directed to side gutter from lamellae. The collected water is transferred from inside of the foot to the outside notching is applied to the groove and the feet for rainwater discharge.



# 10 Installation Options

Freestanding



Wall



Suspended



Integrated

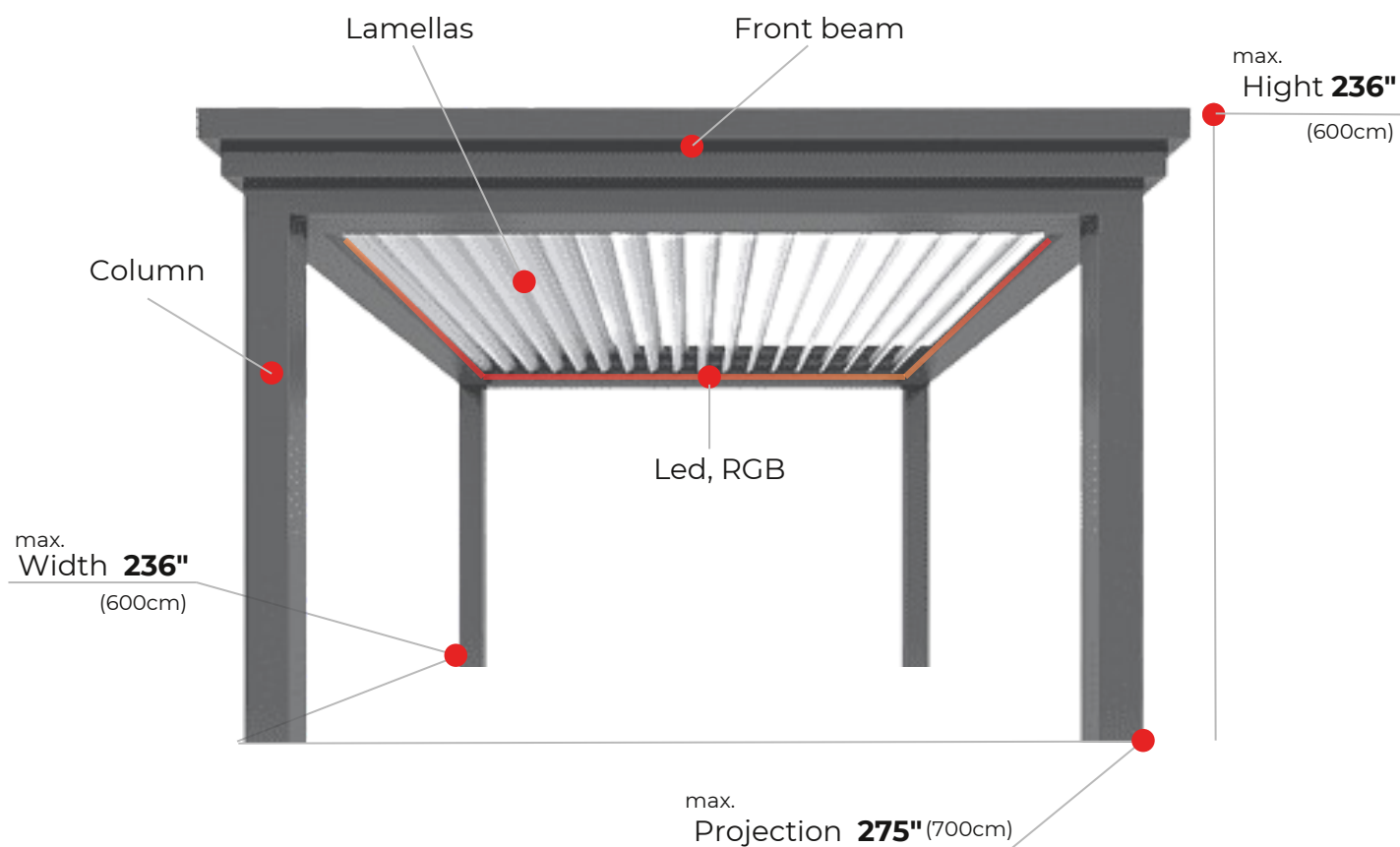


## Modular Design










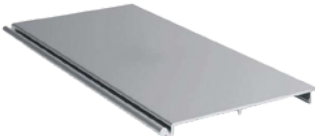


## Dimensions



Total weight of the structure	6,86 lbs/ft <sup>2</sup>
Heat protection, heat supply	80 %
Snow and wind load	Avarage
Tightness of a design (wind permeability, moisture protection)	90 %

# 12 Primary Body Profiles

		Bulk	Dimensions
	Lamella	2,4 lbs/ft (3,51 kg/m)	10,8" x 1,6" (274 x 40mm)
	Gutter beam	2,5 lbs/ft (3,7 kg/m)	7,8" x 3,4" (199 x 86mm)
	Engine box	2,1 lbs/ft (3,1 kg/m)	5,8" x 5,4" (146 x 137mm)
	Column	2,9 lbs/ft (4,3 kg/m)	6,3" x 6,3" (160 x 160mm)
	Rail	2,6 lbs/ft (3,9 kg/m)	4,3" x 3,7" (110 x 94mm)
	Gutter sewing	3,4 lbs/ft (5 kg/m)	9,8" x 1,7" (250 x 43mm)
	Rail top add	0,8 lbs/ft (1,2 kg/m)	1,6" x 1,7" (40x43mm)
	Engine box cover	3,4 lbs/ft (3,9 kg/m)	5,8" x 0,5" (148 x 13mm)



13 **Project Exemplars**



## MOVABLE ROOF

### ROLLING ROOF SYSTEMS

Rolling roof is an innovative roof system that can be opened and closed. Equipped with a movable mechanism, the roof can be opened or closed as desired.



It is one of the most modern closure solutions. It creates a highly comfortable space for both home and business use.



5 years  
warranty



4 Seasons  
Protection



Smart Systems



Technical  
Support



Professional  
Quick Assembly



## Design

Aluminum panels rotating around their own axis operate by folding backward.

The design of thick panels includes a movement mechanism that supports the capability to be opened and closed remotely. This mechanism comprises rails, wheels and specially designed systems. It has the ability to open when desired and stop at any desired position.



Delivery Time : **2 - 3 Weeks**

Engine : **SOMFY**

Warranty : **5 Years**



## Introduction

**Climate Control and Flexibility :** It provides flexibility against all four seasons' weather conditions. It can be closed in adverse weather conditions such as rain, snow, or wind, and opened on sunny days.

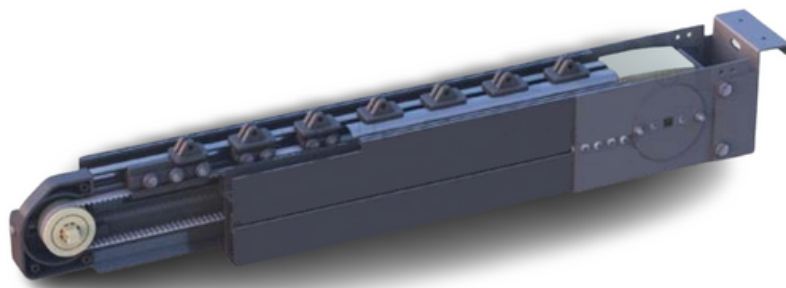
**Functionality of the Space :** The rolling roof is designed to enhance the functionality of the space. Especially in places like gardens, restaurants, sports facilities, or event venues, opening the roof provides the opportunity to have fresh air.



**Aesthetic Design :** It has a modern and stylish design, enhancing the aesthetic appearance of the space and offering architectural diversity.

**Security and Durability :** It is made of high-quality, robust, and durable materials, ensuring a long-lasting and secure solution. These are systems with extended warranties.

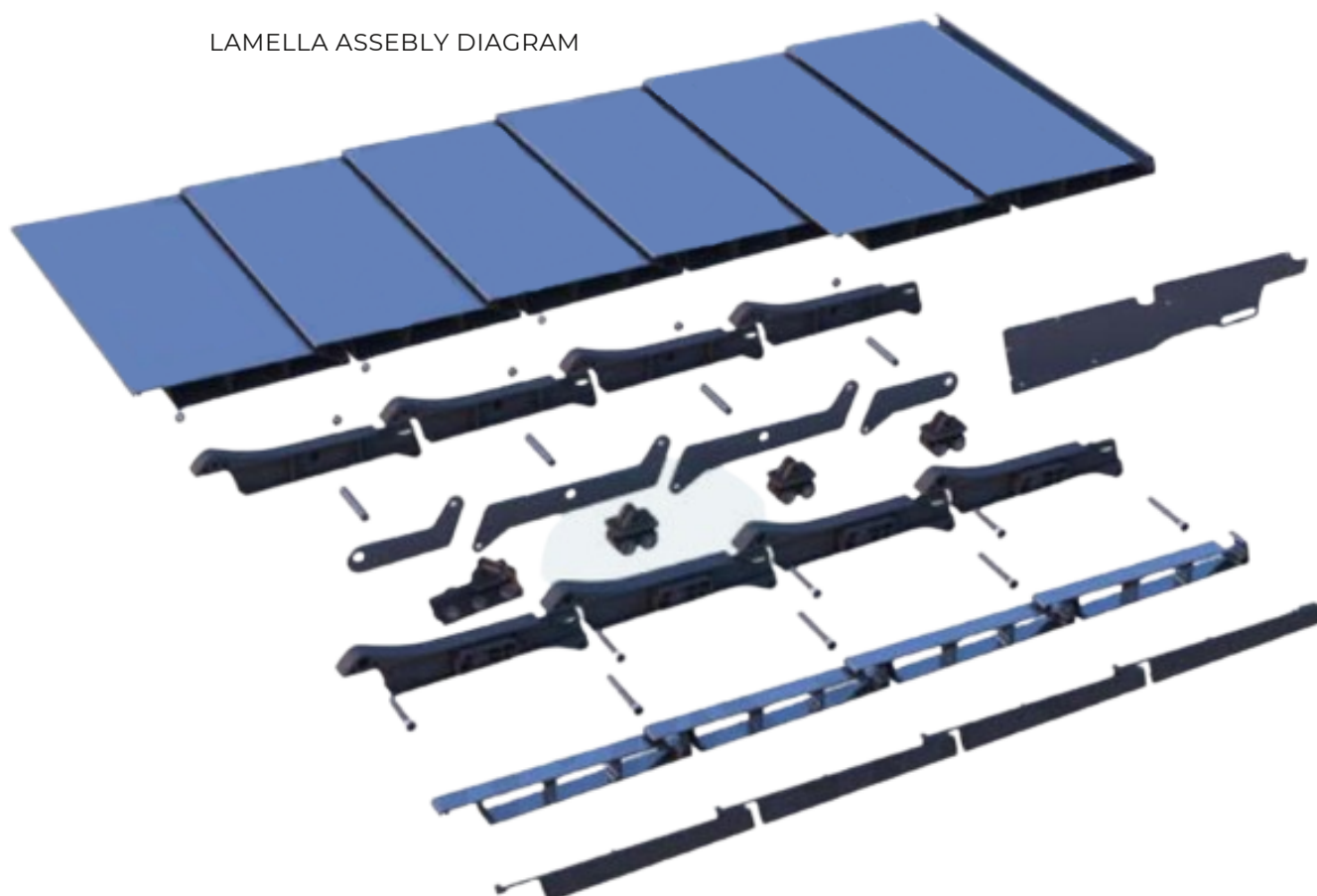
# 17 Primary Systems



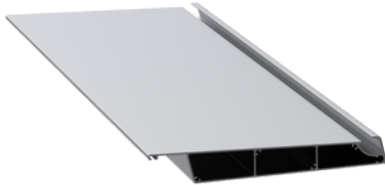
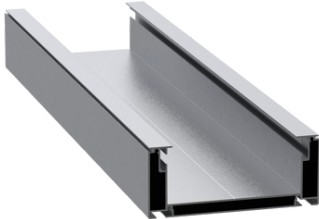

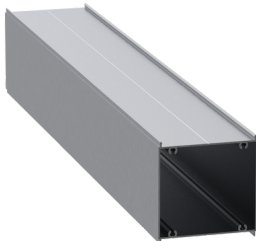

RAIL FRONT AND REAR TENSION INSTALLATION SCHEME



LAMELLA ASSEMBLY DIAGRAM



# 18 Primary Body Profiles

		Bulk	Dimensions
	Lamella	2,6 lbs/ft (3,9 kg/m)	11,3" x 1,6" (286 x 40mm)
	Gutter	3,1 lbs/ft (4,6 kg/m)	8,1" x 3,4" (205 x 85mm)
	Rail Profile	5,3 lbs/ft (7,9 kg/m)	5,1" x 6,3" (130 x 160mm)
	Sewing Profile	2,1 lbs/ft (3,1 kg/m)	4,3" x 4,7" (110 x 120mm)
	Gutter Front Rear Closure	1,2 lbs/ft (1,8 kg/m)	6,5" x 1,2" (165 x 29mm)



Product Catalog

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**GUILLOTINE GLASS**

## Design

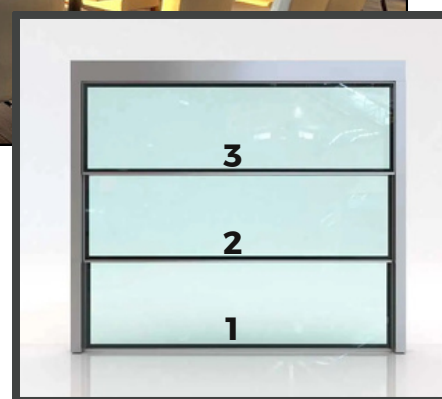
Guillotine window systems are systems where windows open vertically with a remote control.



3 Panels Guillotine System



2 Panels Guillotine System



Depending on the measurements and the project, it operates by the vertical opening and closing of 2 or 3 glass panels, overlapping each other.



5 years  
warranty



4 Seasons  
Protection



Smart Systems



Technical  
Support



Professional  
Quick Assembly



## Introduction

Resistant to cracking and breaking with high-strength tempered glass and a sturdy aluminum frame, they are durable against all types of weather conditions.

In smart and technological guillotine window systems, double glazing is used to reduce heat transfer, providing better energy efficiency and sound insulation.

They are easy to clean and hygienic, adding a stylish and modern look to the space.

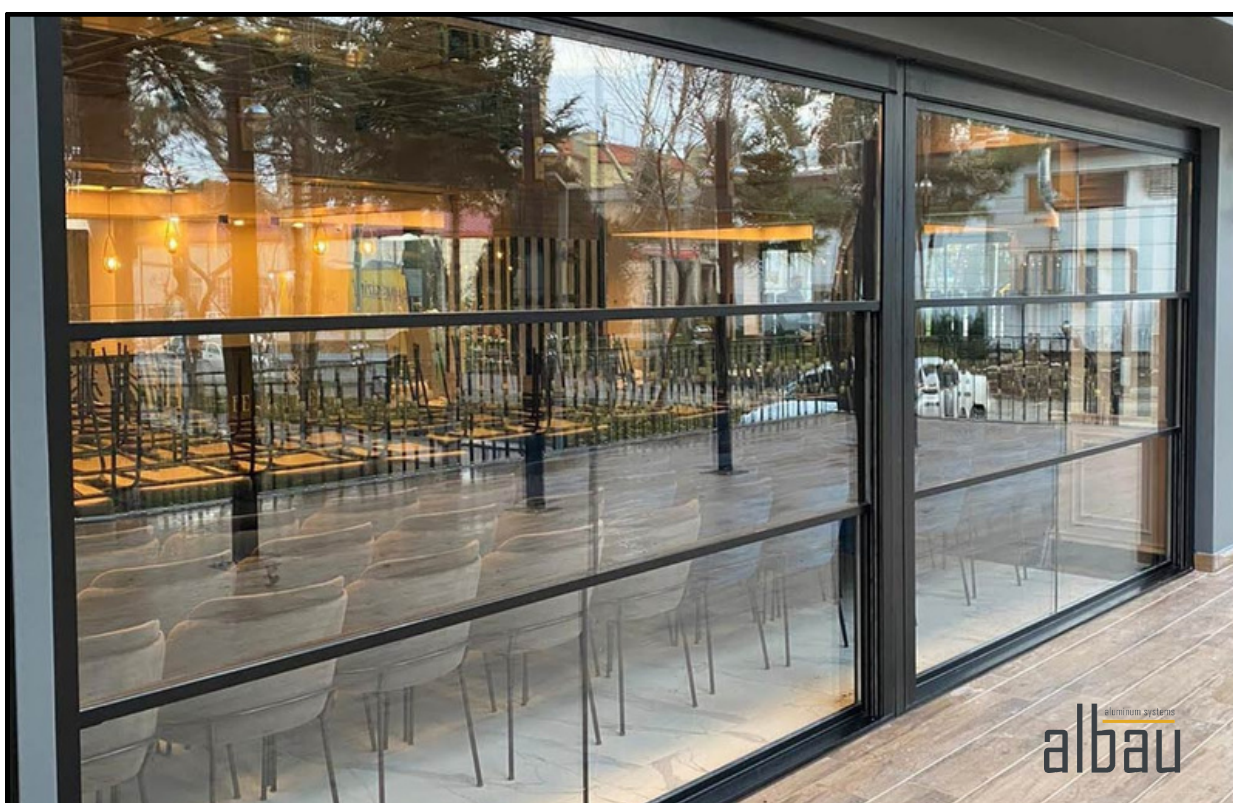
Fixed panels serve as railings when in the closed position.



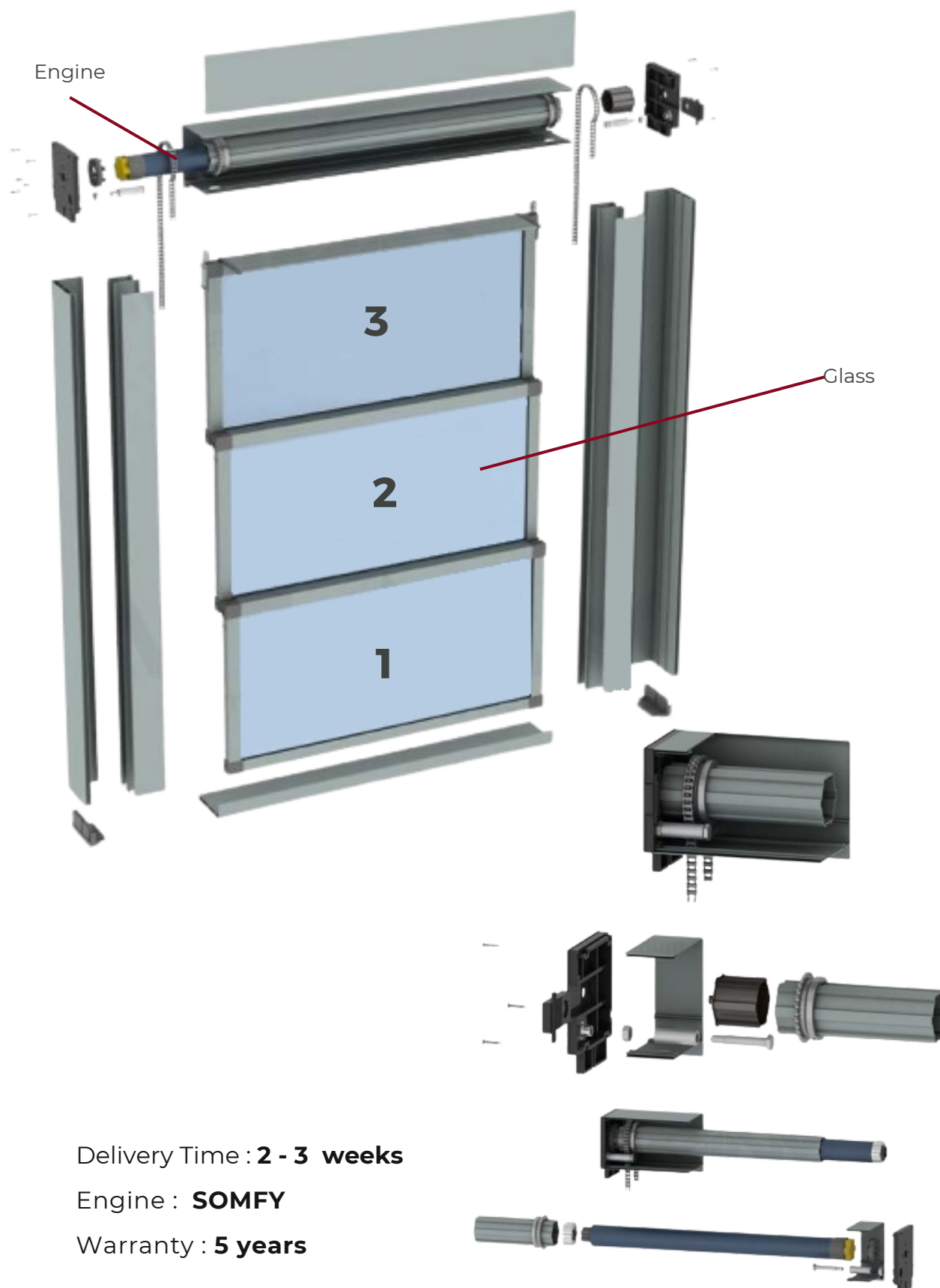
Guillotine window systems are used in residences, cafes, restaurants, villas, farmhouses, winter gardens, and many other areas. We can custom manufacture guillotine windows in desired dimensions, offering various color options to match your style.



## 22 Primary Systems

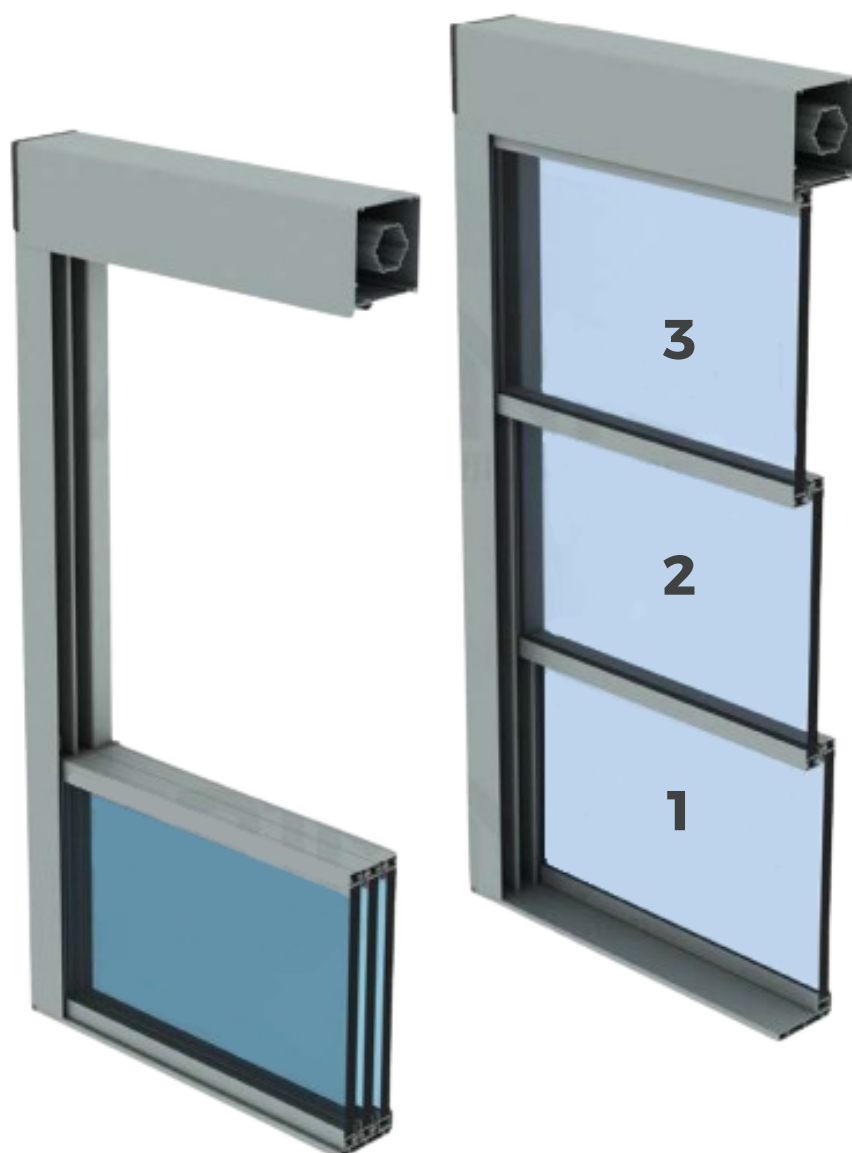


## Primary Systems



## Dimensions

System	Transmission Part	Properties of Glass		Motor Properties		Max. Dimensions		Rail Width
		Glass Type	Glass Combination	Torque	Revolution	Max. Width	Max. Height	
Vision 1	Chain	Monolithic Glass	5/16" Tempered (8 mm)	120 Nm	11 Rpm	157,5" (4000 mm)	137,8" (3500 mm)	4,33" (110 mm)
Vision 2	Chain	Insulated Glass Unit	3/16 + 9/16 + 3/16" Tempered (5 +14+5 mm)	120 Nm	11 Rpm	125,9" (3200 mm)	137,8" (3500 mm)	4,92" (125 mm)
Vision 3	Chain	Insulated Glass Unit	3/16 + 9/16 + 3/16" Tempered (5 +14+5 mm)	120 Nm	11 Rpm	125,9" (3200 mm)	137,8" (3500 mm)	4,92" (125 mm)





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# WINTER GARDEN



Made in USA



## Design

Winter gardens have various applications, including:

**Year-Round Use :** They provide an extension where you can experience all four seasons simultaneously, enhancing the usability of the space throughout the year.



**Relaxation and Entertainment :** They provide a suitable space for relaxing in a soothing atmosphere, reading a book or hosting guests.



5 years  
warranty



4 Seasons  
Protection



Smart Systems



Technical  
Support



Professional  
Quick Assembly

**Dining Area :** By adding a dining table, you can transform the winter garden into a delightful dining area.



**Hobbies and Art :** It can be used as a dedicated workshop area to focus on hobbies or art projects.

**Aesthetic Value :** It contributes aesthetically to the building's architecture, adding a pleasing visual element to the surroundings.

**In restaurants and cafes :** Winter gardens are one of the most indispensable parts of restaurants and cafes. The restaurant prefers these areas to meet the outdoor needs of its customers. Cafes and restaurants in such areas use modern stoves. Thanks to this, it is possible to keep the temperature of the winter garden environment at a certain level.



28 **Project Examples**





Product Catalog

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**ZIP CURTAIN**



Made in USA

## Design

The ZIP curtain system features a sleek design coupled with modern and innovative functionalities. This system can be controlled remotely and has the capability to open and close both vertically and horizontally, depending on the space. It is quite ergonomic.



5 years  
warranty



4 Seasons  
Protection



Smart Systems



Technical  
Support



Professional  
Quick Assembly



## Introduction

**Durability :** ZIP curtain fabrics are crafted from highly resilient materials, providing resistance against external weather conditions. They exhibit resistance to the sun's UV rays, rain, wind, and other atmospheric factors.

**Water and Stain Resistance :** Fabrics with waterproof or water-repellent coatings are commonly employed in ZIP curtain systems. This prevents water penetration during rainy weather.

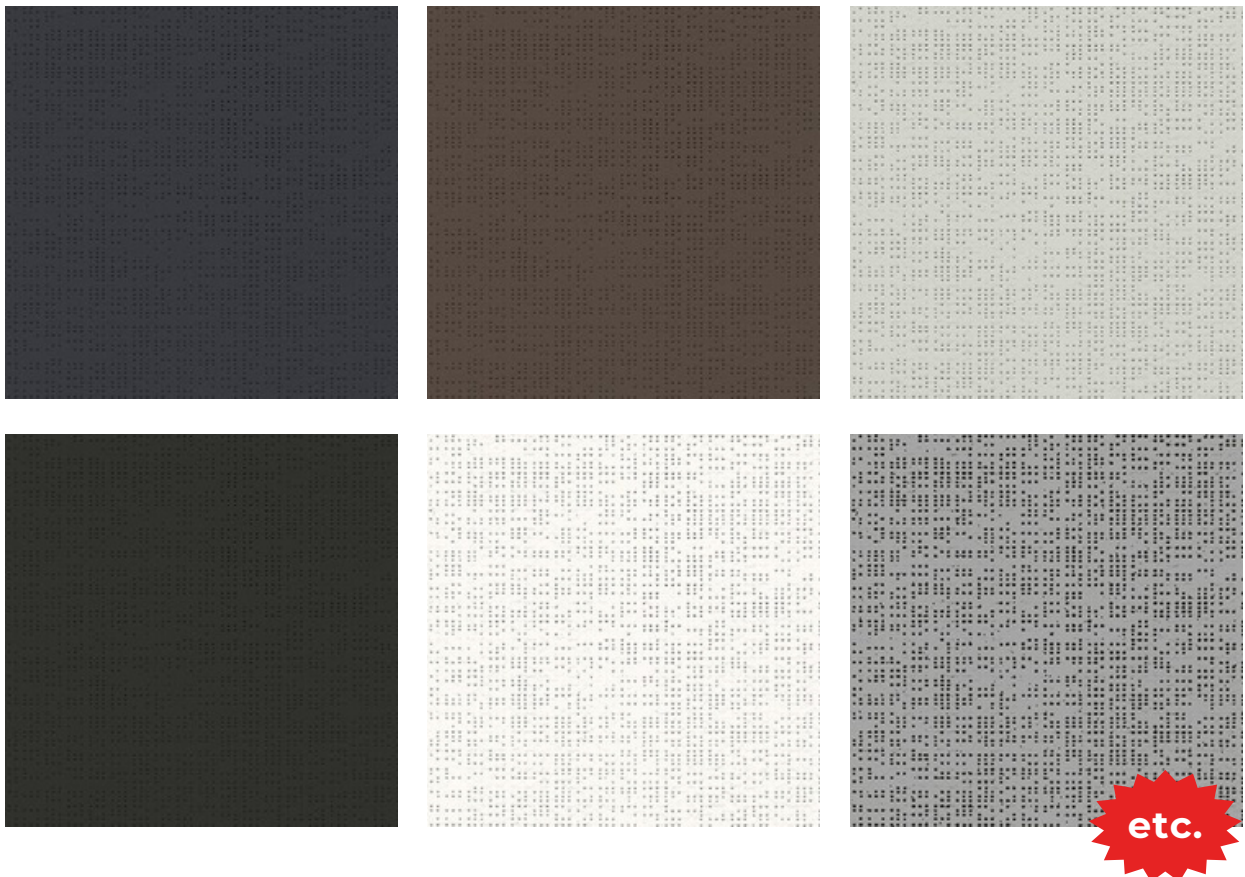


**Light Permeability Control :** ZIP curtain fabrics are designed to regulate the entry of light. Consequently, users can adjust the curtain according to their preferences, enabling them to achieve the desired level of illumination indoors.

**Air Circulation :** The permeability of the fabric is a crucial factor in ZIP curtain systems. Ensuring air circulation facilitates ventilation in the space and eases temperature control, particularly in warm weather.

## Introduction

**Aesthetic Variety :** ZIP curtain fabrics are typically available in different colors, patterns, and textures. This provides users with a range of options to complement their interior designs.



**Longevity :** ZIP curtain fabrics, crafted from high-quality materials, have a prolonged lifespan and can maintain color durability.

**Easy Maintenance :** ZIP curtain fabrics are easily cleaned and require straightforward maintenance. Stain resistance and water repellency features contribute to keeping the fabric clean for an extended period.

**Protectiveness :** Prevents the entry of flies and insects into your space.

These features support the general use of ZIP curtain fabrics in outdoor applications, offering a durable and functional solution for open-air spaces. We use top-tier fabrics in our products.

Our company, which is among the zip curtain manufacturers, recommends this product to many users and installs it in their homes or workplaces with precision.





Product Catalog

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**SLIDING GLASS  
( INSULATED )**



Made in USA

## Design

The system wings (right or left) have the feature of being able to be gathered to the desired point. They provide harmony between indoor and outdoor spaces through their sliding wings. Thanks to the bearings used in the lower parts, they allow easy and silent opening and closing.



The Sliding Glass System consists of horizontally sliding panels. Depending on the profile type, the system uses 5/16" (8mm) tempered glass or 5/32+15/32+5/32" (4+12+4 mm) tempered insulated glass units.



5 years  
warranty



4 Seasons  
Protection



Smart Systems



Technical  
Support



Professional  
Quick Assembly



## Introduction

Sliding glass systems are elegant and modern in appearance. They have a wide field of view and can be used in the outdoor openings of homes, office partitions, restaurants and similar shops.

Tempered and insulated-glazed glasses used in sliding glass systems help maintain indoor temperature while minimizing energy losses from external factors.



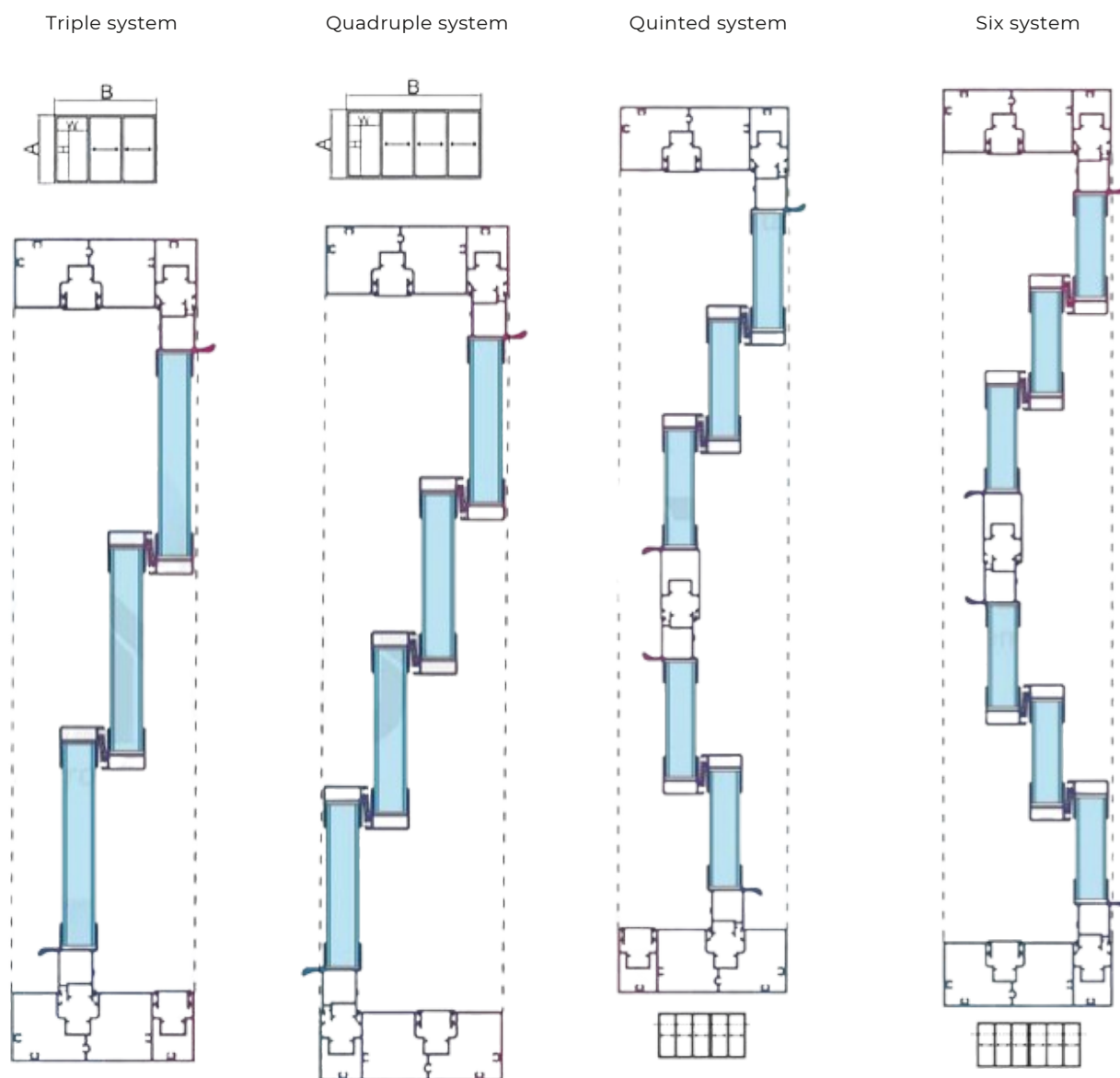
The drainage channels in the bottom rail profile of the system provide waterproofing. Since the panels are vertically mounted with aluminum clips, the wind resistance is higher and more protective compared to standard systems. The security of the system is ensured with key or keyless lock systems.

Delivery Time : **2 - 3 Weeks**

Warranty : **5 years**

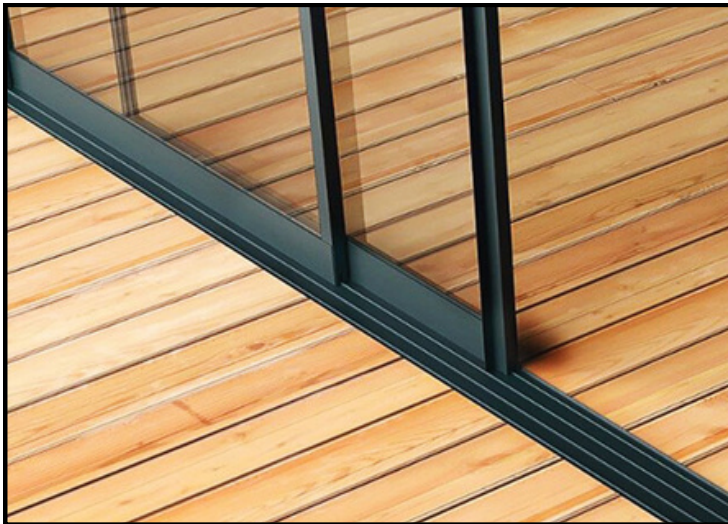


## Dimensions



Max. Width	Max. Height	Glass Type	Rail Width			Panel Width
Project Size	110.2" (2800 mm)	Monolithic Glass 5/16" Tempered (8 mm)	<i>Triple rail</i>	<i>Quadruple rail</i>	<i>Quintet rail</i>	Max. 47.24" (1200 mm)
			4.05" (103 mm)	5.39" (137 mm)	6.77" (172 mm)	
Project Size	110.2" (2800 mm)	Insulated Glass Unit 5/32+15/32+5/32" Tempered (4+12 +4 mm)	<i>Triple rail</i>	<i>Quadruple rail</i>	<i>Quintet rail</i>	Max. 47.24" (1200 mm)
			4.05" (103 mm)	5.39" (137 mm)	6.77" (172 mm)	

## Exampless





Product Catalog

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**WINDBREAKER**



## Design

Windbreaker systems are a product that elevates spaces architecturally and aesthetically. Each system can be designed to a max. height of 6 feet and a max. width of 6.5 feet.

It is a highly preferred solution for businesses such as cafes and restaurants. In addition to its windbreaking feature, the Piston System also serves as a railing, enclosing the seating area of your spaces and becoming a functional element.

**Modular Design :** Modular design allows the system to be easily adapted to different needs and spaces. Customizability in different sizes and shapes provides users with extensive design flexibility.



5 years  
warranty



4 Seasons  
Protection



Smart Systems



Technical  
Support



Professional  
Quick Assembly

## Introduction

**Aluminum Profiles:** The use of aluminum profiles is justified by their lightweight, durability, and resistance to corrosion. Aluminum profiles contribute strength to the structure while supporting transparent glass panels.

**Transparent Glass Panels:** Transparent glass panels fulfill the fundamental purpose of windbreaker systems: reducing the impact of wind while allowing natural light to create an open atmosphere.



**Quick Assembly Features :** Quick assembly features enable easy installation and disassembly of systems. Providing flexibility to users allows the systems to be used in different spaces and at different times.

### **Aesthetic Design:**

Color and coating options provide an aesthetic appearance by allowing the systems to harmonize with their surroundings. Glass and transparent design contribute to an architecturally appealing look.



## Introduction

**Durability and Maintenance :** The durability of aluminum and glass materials, combined with low maintenance requirements, ensures a long lifespan. Light maintenance needs support longevity and provide users with a comfortable experience.

Such systems can contribute to the aesthetics and functionality of spaces, making outdoor areas more comfortable and usable.



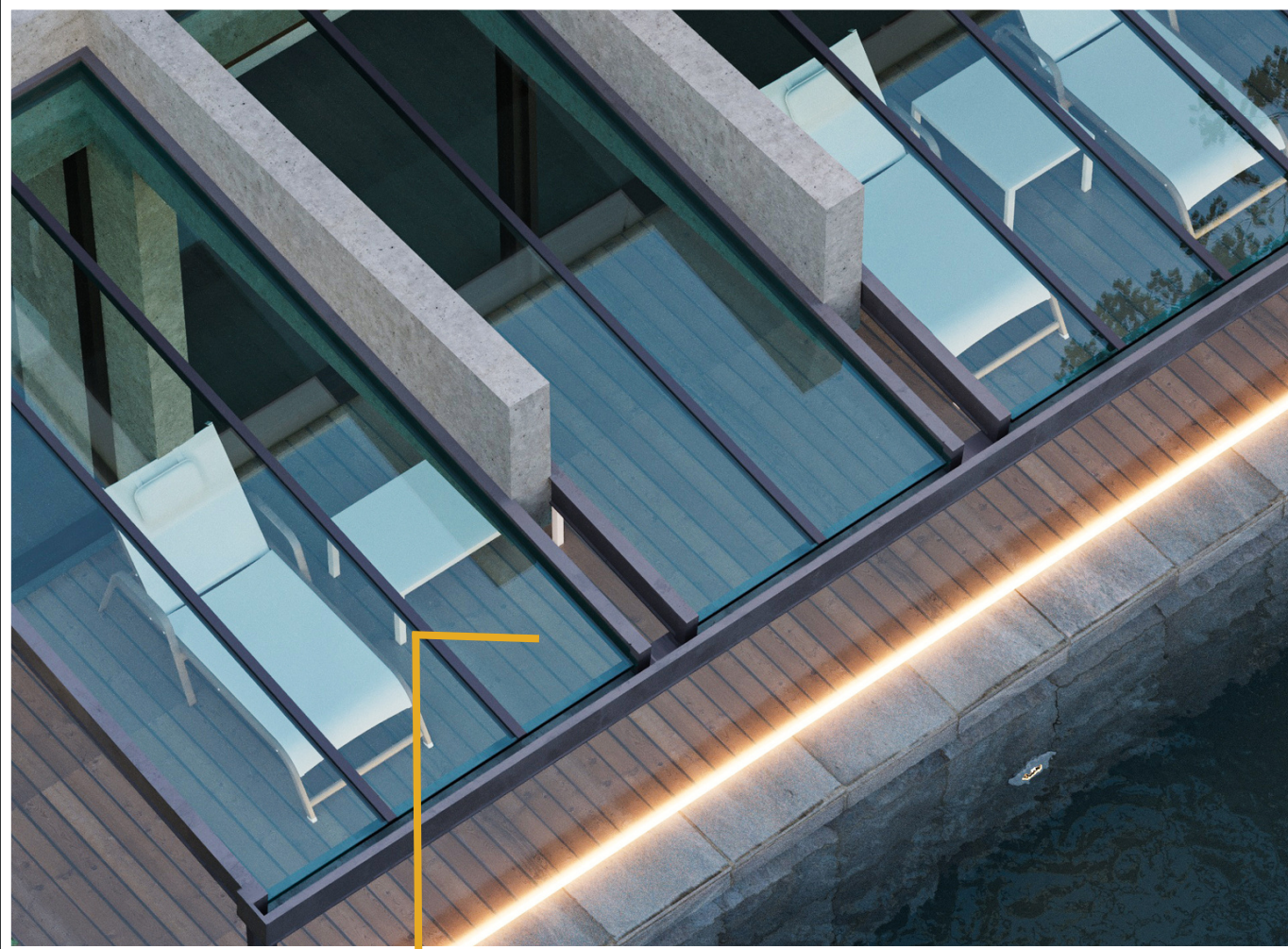
Delivery Time : **2 -3 Weeks**

Warranty : **5 years**



Product Catalog

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**GLASS CEILING  
( INSULATED )**



## Design

If you are seeking a completely new look for the aesthetic and unique design of your space, it's time to explore our glass ceiling systems.



The design of insulated glass roofs is a process that takes into account factors such as energy efficiency, durability and aesthetics.



5 years  
warranty



4 Seasons  
Protection



Smart Systems



Technical  
Support



Professional  
Quick Assembly

## Introduction

Here are some of the advantages of glass ceilings:

**Natural Light :** Glass ceilings bring natural light into the interior, creating a brighter and more spacious feel. This contributes to energy savings and enhances the overall attractiveness of the interior.

**Aesthetic Appeal :** Glass ceilings provide a modern and stylish appearance, contributing to the overall design and creating a visual impact.

**Visual Width :** Glass ceilings contribute to a sense of spaciousness and openness in the space, even in smaller areas.

**Energy Efficiency :** Glass ceilings made with insulated glass help maintain indoor temperature, minimizing heat loss and improving energy efficiency.



**Spatial Integration :** Glass ceilings establish a connection between the interior and exterior, allowing the interior to seamlessly blend with the surroundings and take advantage of natural views.



## Introduction

**Durability and Security:** Modern glass ceilings are manufactured using strong and durable materials. The use of safety glass or laminated glass prevents the scattering of pieces in case of breakage, ensuring safety.

**Creative Architectural Solutions:** Glass ceilings provide creative and impressive solutions in architectural projects, supporting the unique design of the space and offering various architectural options.

These advantages make glass ceilings a preferred choice in a wide range of applications.



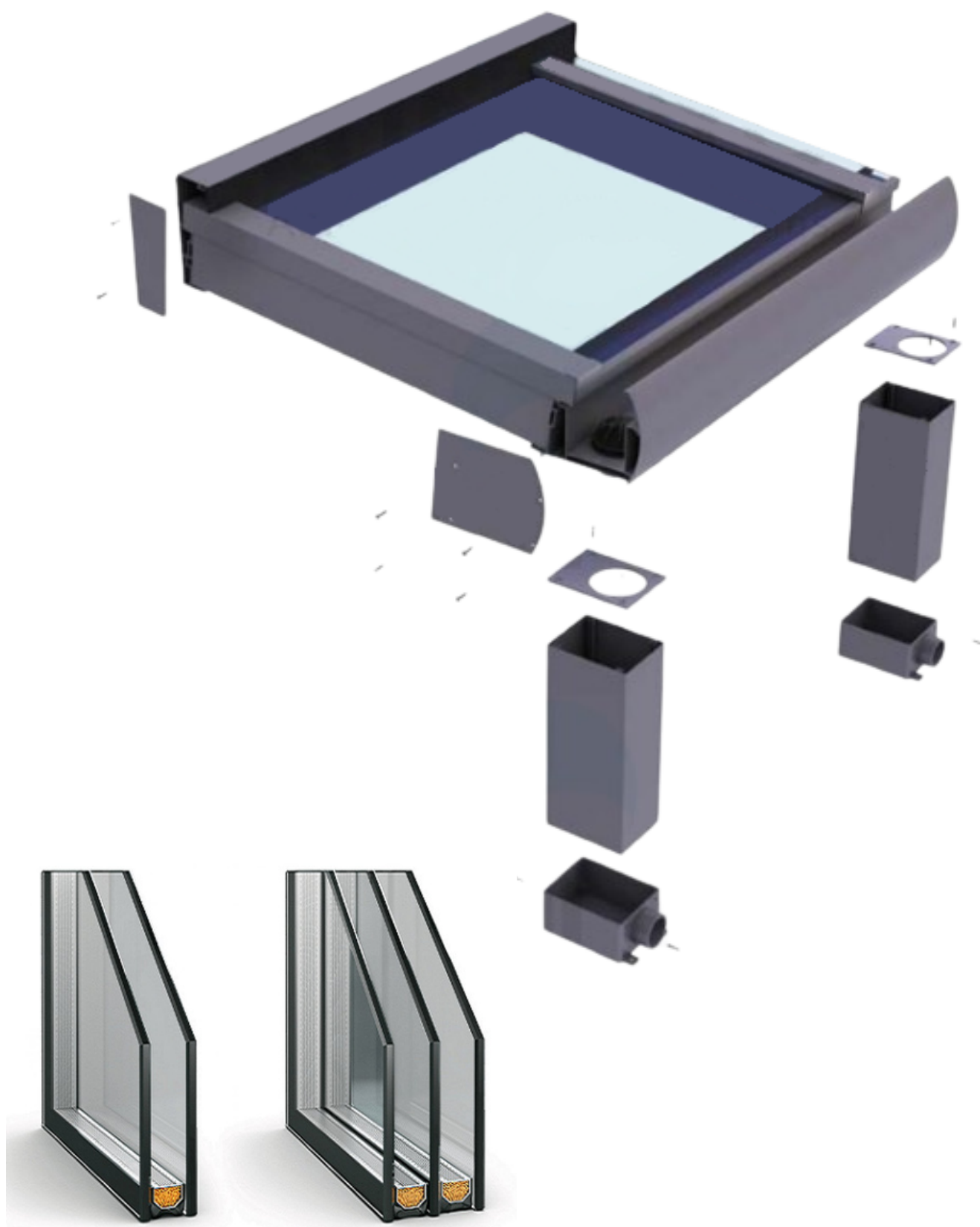
## Introduction



Delivery Time : **3 Weeks**

Warranty : **10 years**





## Product Catalog

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## GARDEN FENCE



Made in USA



## Design

Aluminum Garden Fence is the quick and easy way to mark your boundary and keep unwanted pets and visitors away.



Aluminum Fence comes in panel profiles that can be cut in desired lengths. The poles can be mounted on the floor and parapet walls with a compatible pedestal on a concrete, ceramic or steel structure. Thanks to its robust design, you can install these poles up to 6 feet above the ground.



5 years  
warranty



4 Seasons  
Protection



Smart Systems



Technical  
Support



Professional  
Quick Assembly

## Introduction

Aluminum garden fences offer several advantages over plastic and wooden fences, and the choice between them depends on the user's needs, aesthetic preferences, and other specific requirements.



**Durability and Resistance :** Aluminum fences are resistant to water and weather conditions. They do not rust, corrode, or fade, providing longevity and durability. Aluminum is a lightweight metal but strong. This characteristic is advantageous for easy transportation, assembly, and long-lasting use of the fence.

**Aesthetic Variety :** Aluminum fences offer a wide range of designs. You can choose from modern, traditional, decorative, or minimalist styles, providing aesthetic versatility.



## Introduction

**Ease of Maintenance :** Aluminum fences generally require low maintenance. Since they do not have issues with rust or corrosion, simple cleaning ensures long-lasting use.

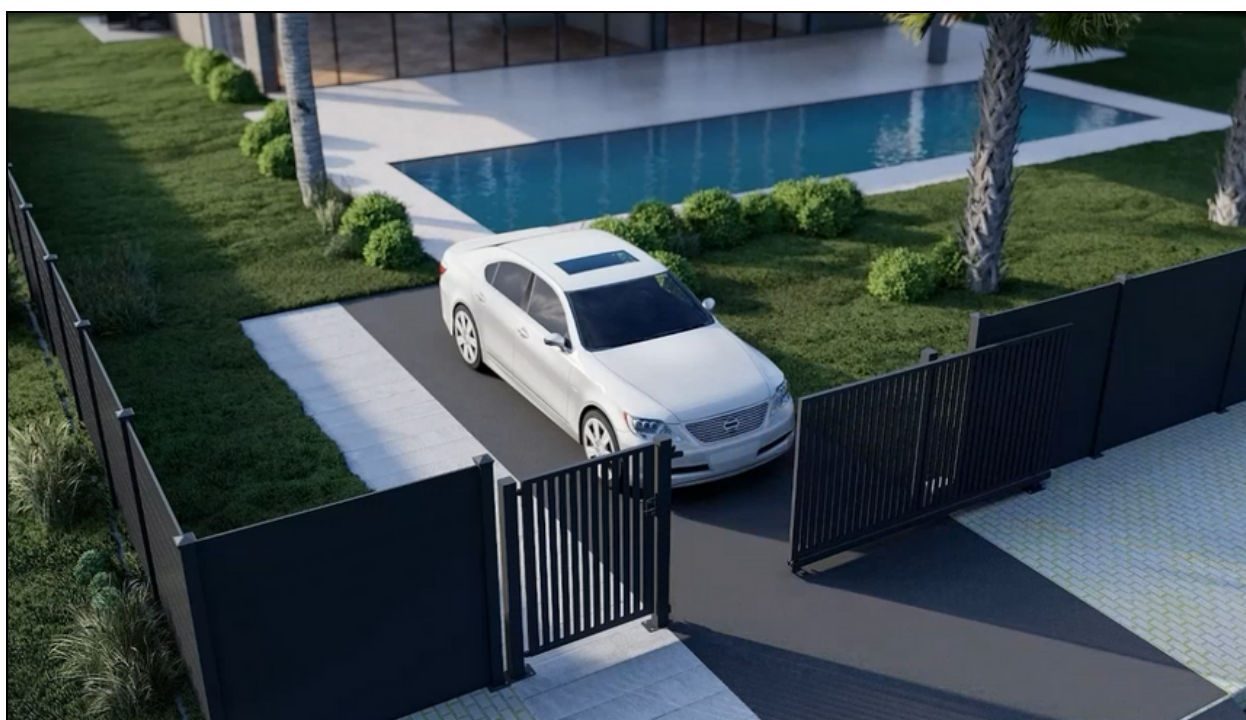


**Environmentally Friendly :** Aluminum is a recyclable material, contributing to it being an environmentally friendly option.

**Fire Resistance :** Aluminum has higher fire resistance compared to wood and plastic materials. This feature provides an advantage in terms of safety.

The decision between aluminum, plastic, and wood will depend on individual preferences, the intended use of the fence, and specific environmental conditions.

## Introduction



Delivery Time : **2 Weeks**

Warranty : **10 years**





aluminum systems

# albau

Modern Aluminum Closing Solutions

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