

aluminum systems
albau

Modern Aluminum Closing Solutions



2024

Product Catalog



albau-usa.com

MOVABLE ROOF

- Bio-climatic Roof
- Rolling Roof
- Pergola

 Made in USA

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.

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.



2 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 are as by bringing the system side by side.

Delivery Time : **2 - 4 weeks**

Engine : **SOMFY**

Warranty : **2 years**

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.



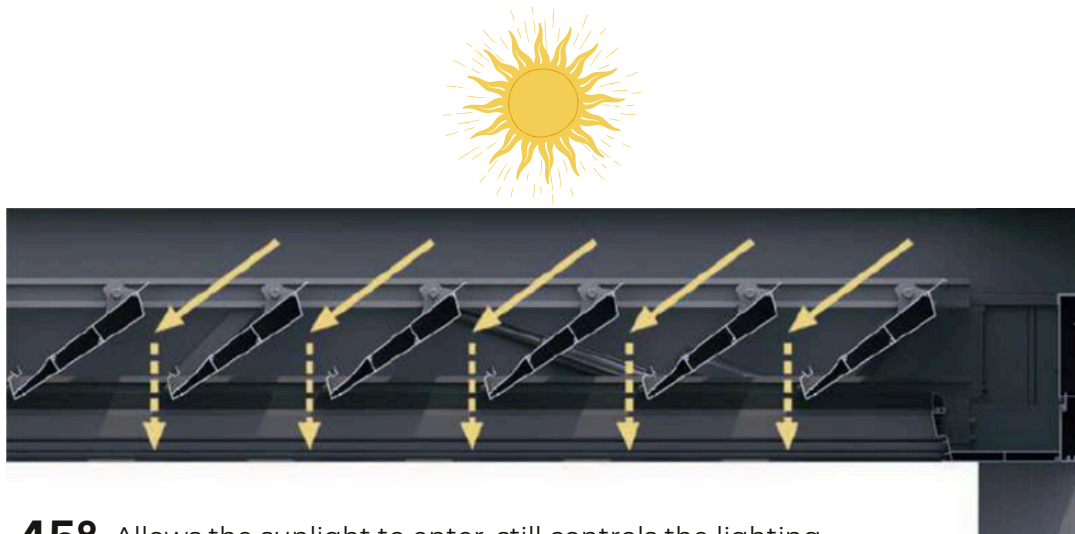
Lamella Movement

Provides maximum air using of the pergola at different times, free rotation of the lamella between **0°** and **~90°**

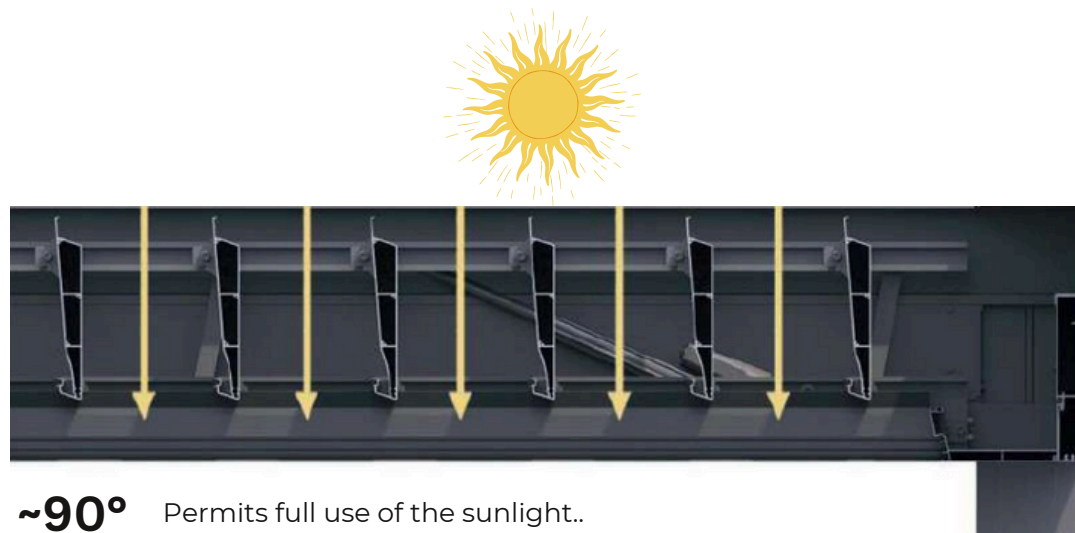


0° Provide the ventilation of the area even if it is raining or snowing.

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



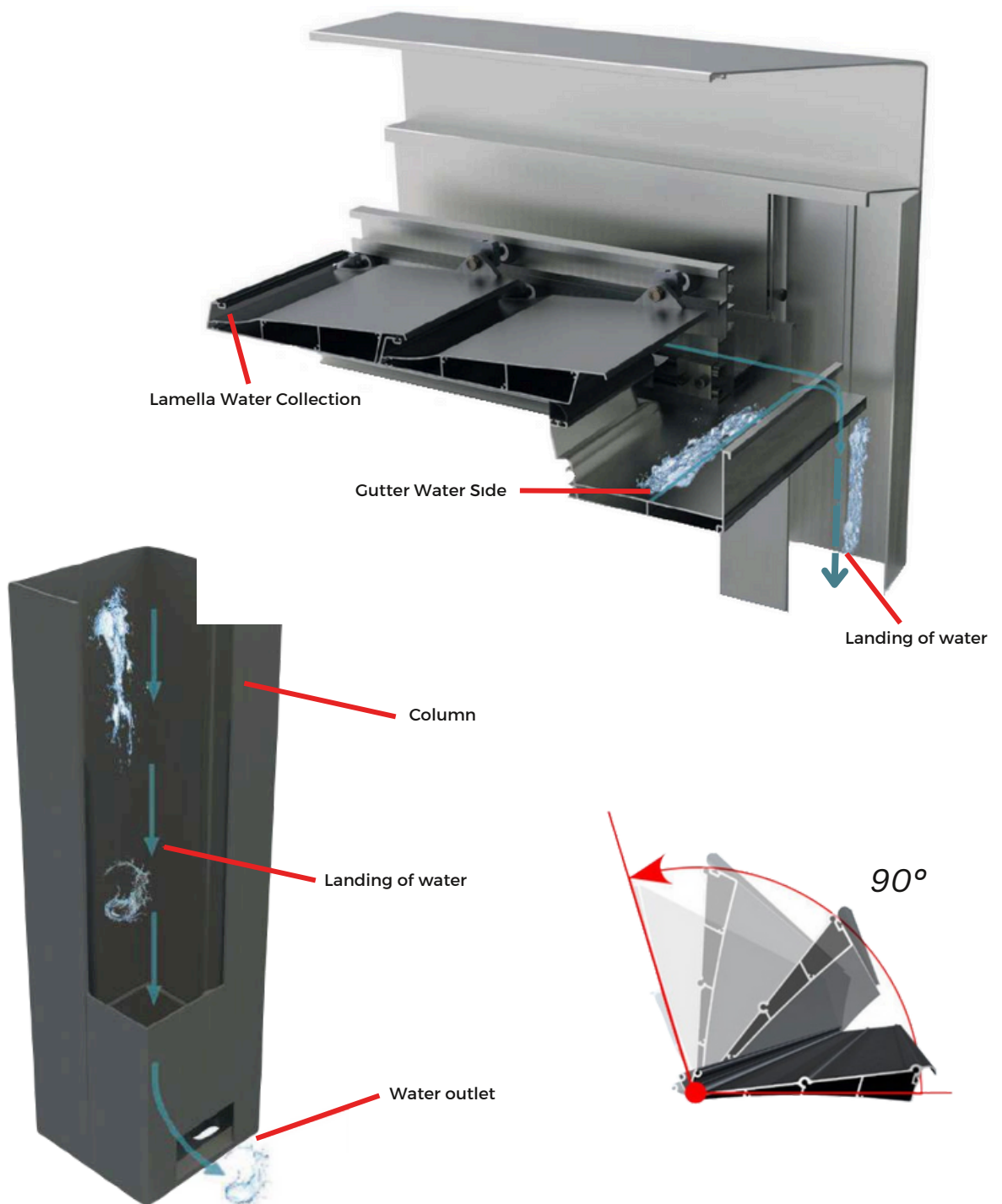
45° Allows the sunlight to enter, still controls the lighting.



~90° 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.



Installation Options

Freestanding



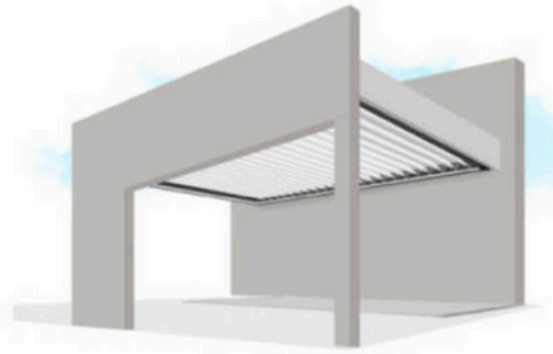
Wall



Suspended



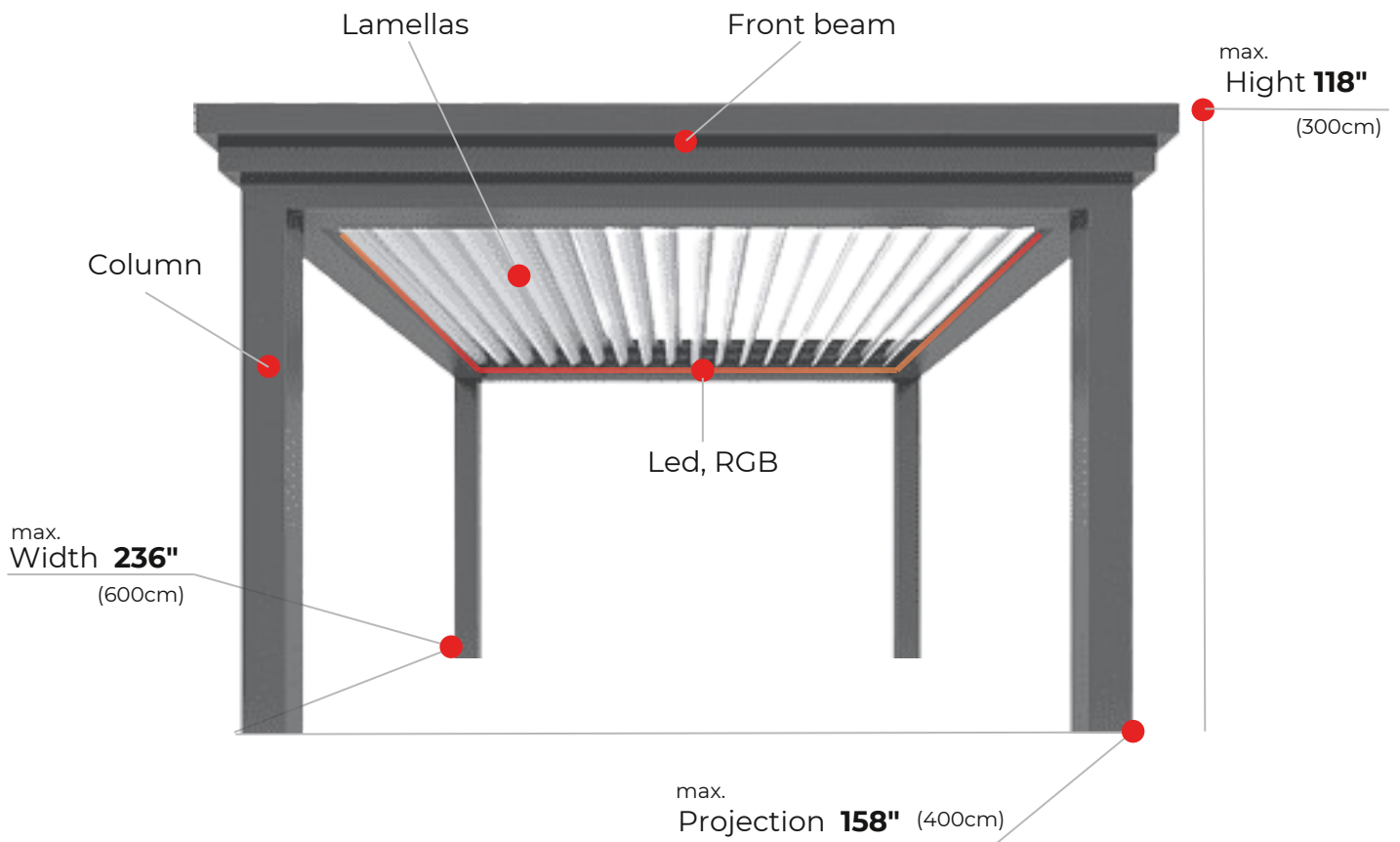
Integrated



Modular Design




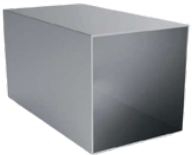



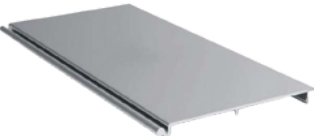


Dimensions



Total weight of the structure	6,86 lbs/ft ²
Heat protection, heat supply	80 %
Snow load	30,66 lbs/sqf
Tightness of a design (wind permeability, moisture protection)	90 %

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)

Project Exemplares



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.

2 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 - 4 weeks**

Engine : **SOMFY**

Warranty : **2 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.

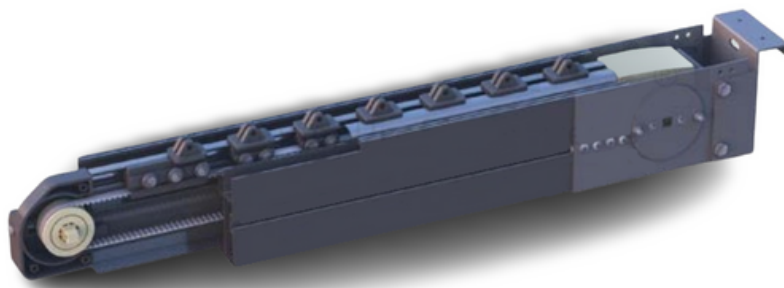
Functionality of the Space : The rolling roof is designed to enhance the functionality of the space. Especially in places like gardens, restaurants, sports facilities, or event venues, opening the roof provides the opportunity to have fresh air.



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.

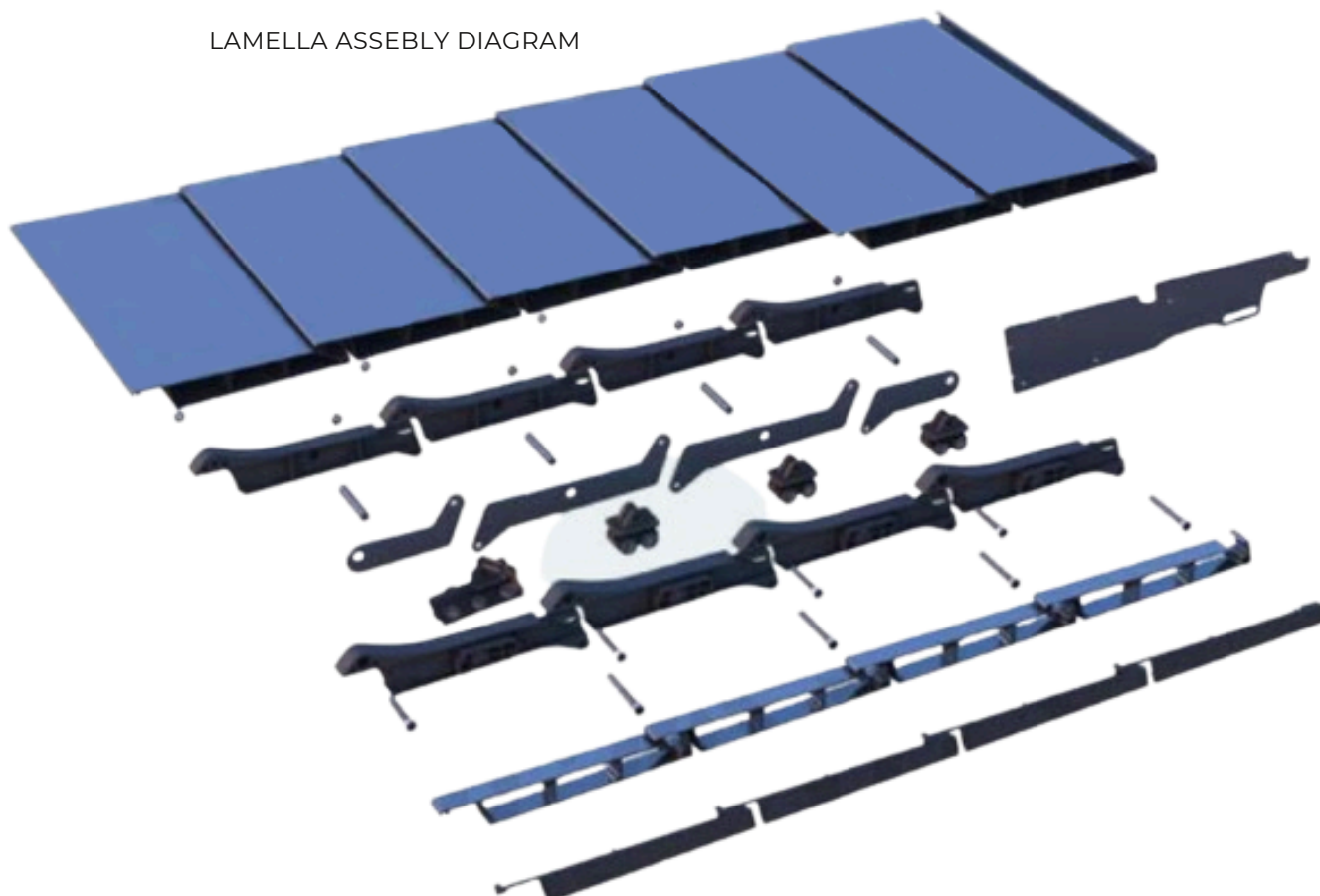
Primary Systems



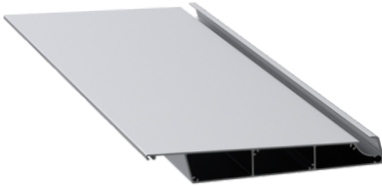


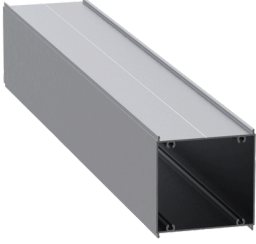

RAIL FRONT AND REAR TENSION INSTALLATION SCHEME



LAMELLA ASSEMBLY DIAGRAM



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)

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