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Made in USA

BIOCLIMATIC PERGOLA

- Louvered Bioclimatic Roof
- Retractable Bioclimatic Roof



2 Years
Warranty



4 Seasons
Protection



Smart
Systems



Technical
Support



Professional
Quick Assembly

Bioclimatic Pergola



Why should I have a Bioclimatic 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.
- It offers comfortable use with the remote control.
- Optional colors are available.

somfy

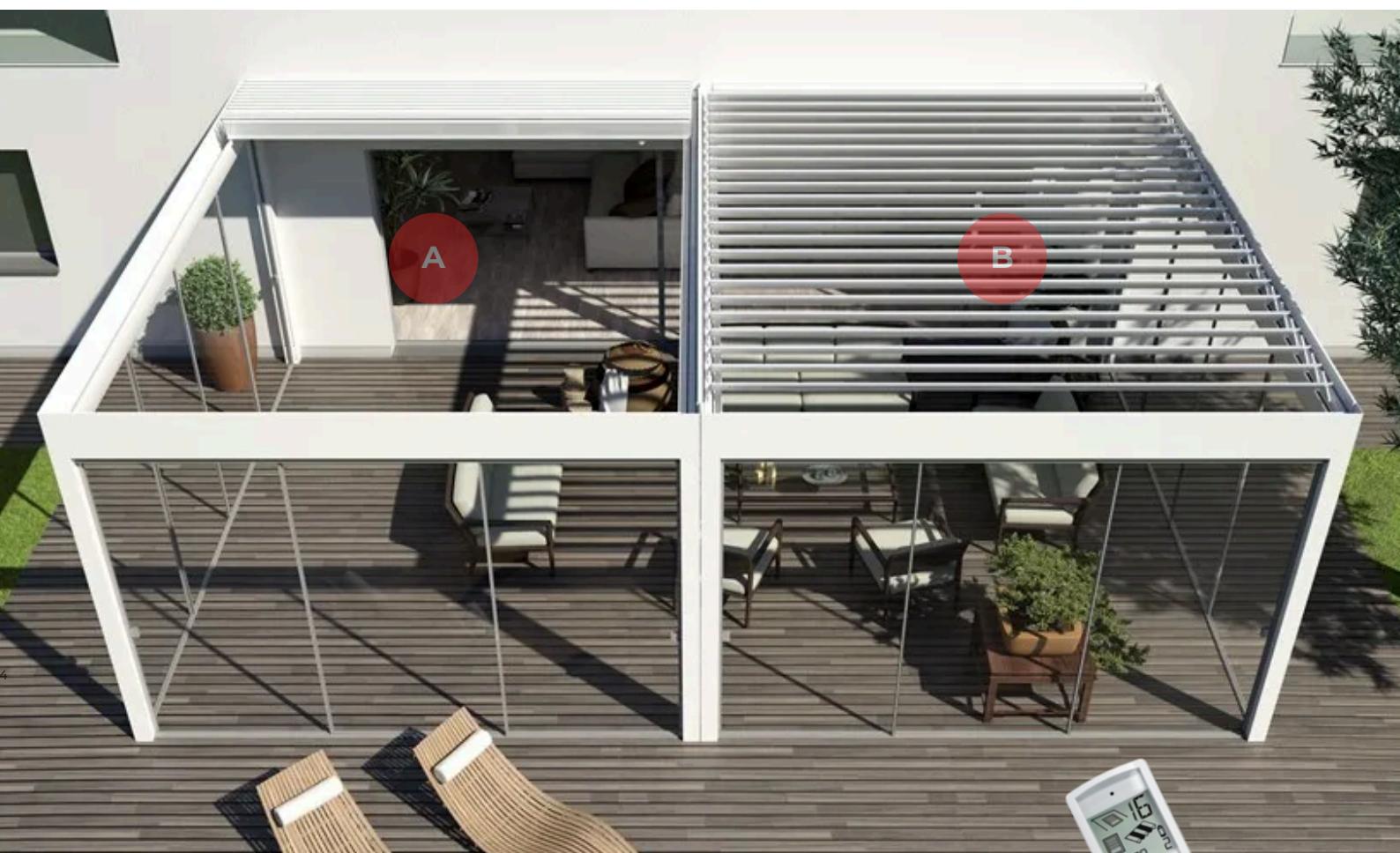


Design

As ALBAU, we manufacture 2- specialized movable roof systems;

A Retractable Bio-climatic Pergola

The retractable bioclimatic pergola transforms outdoor spaces into year-round living areas with its fully opening roof panels. Its modern design offers shade and climate control at a single touch, combining aesthetics with comfort.



B Louvered Bio-climatic Pergola

Thanks to piston motors, the system opens and closes with an approximately **105°** rotating movement and can be easily controlled at any desired level via remote control.



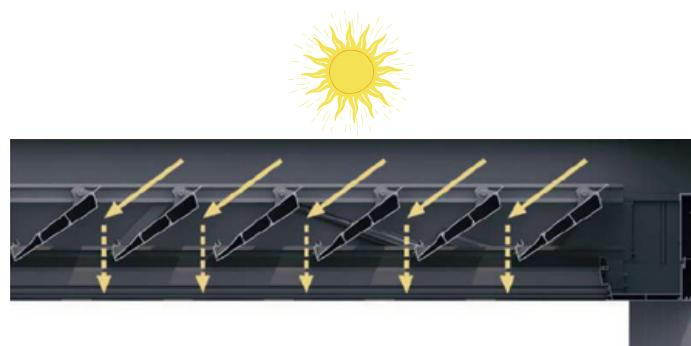
Lamella Movement

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

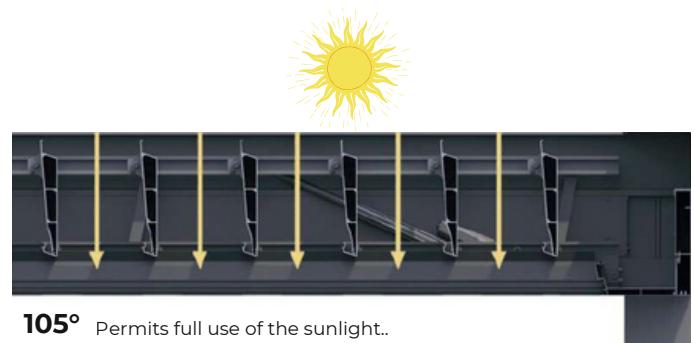


0° Provide the ventilation of the area even if it is raining or snowing.

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..

Snow load

18.5 lbs/ft² – 90 kg/m²

Heat protection / supply

85 %

Total weight of the structure

5 lbs/ft² – 25 kg/m²

Tightness of a design

(wind permeability,
moisture protection)

90 %

Installation Options



Freestanding



Wall



Suspended



Integrated

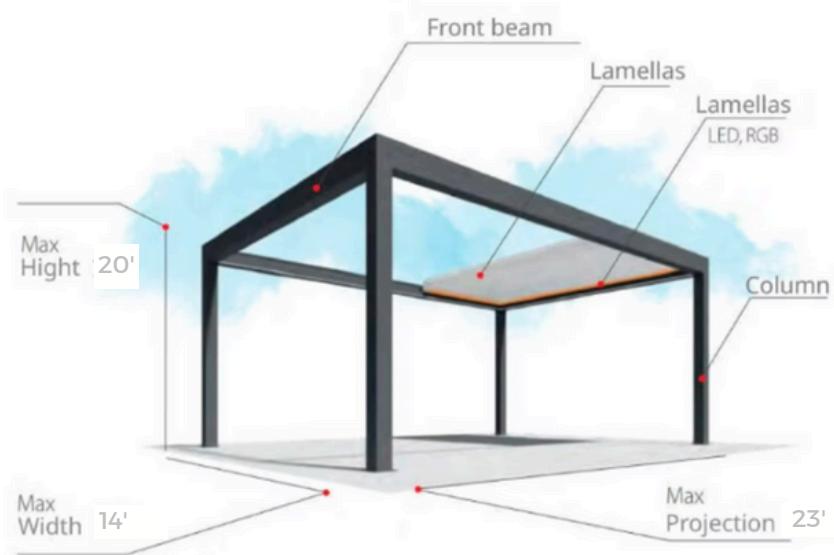
Modular Design



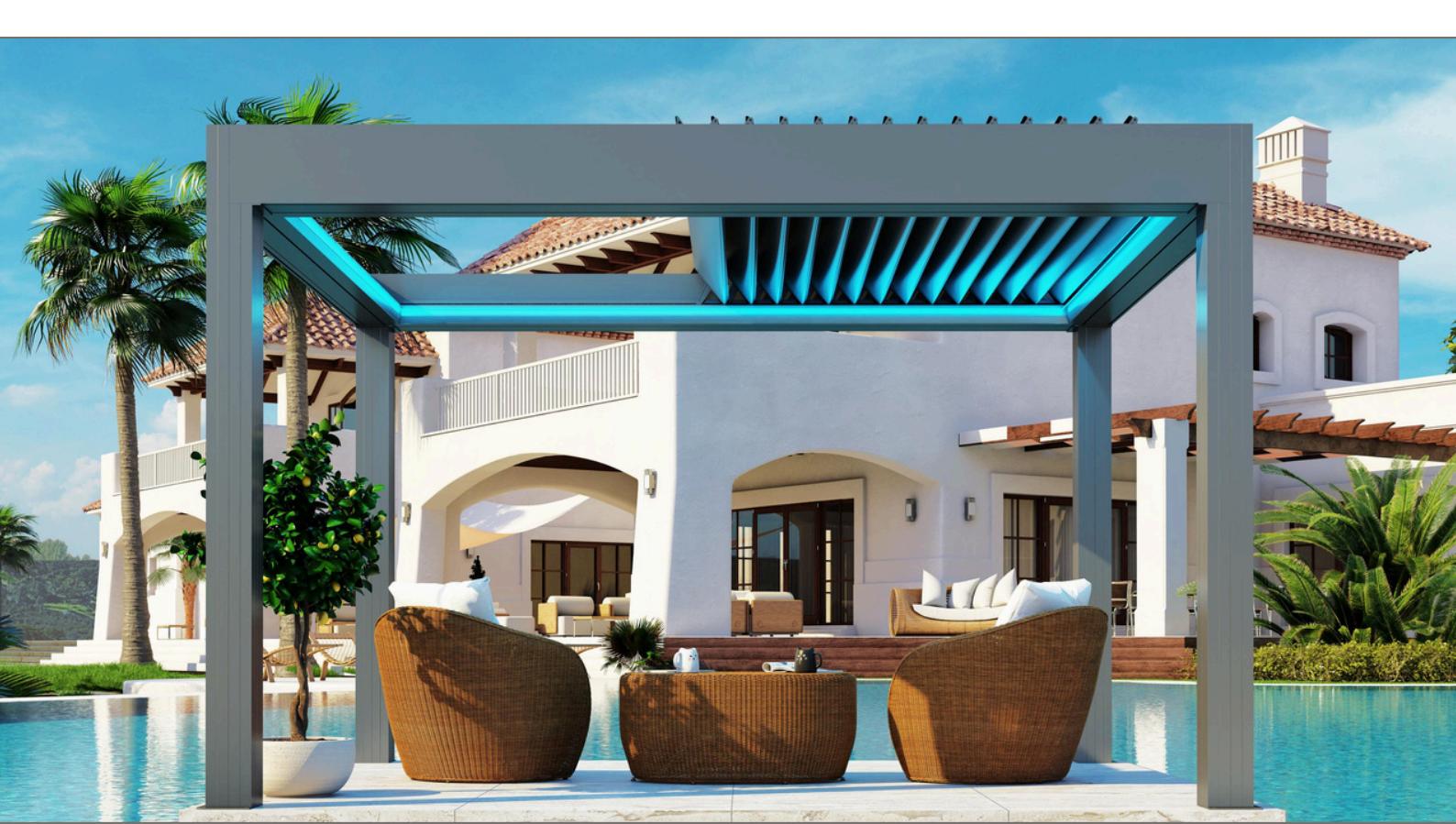
Motor : **SOMFY (France)**

Warranty : **2 years**

Dimensions

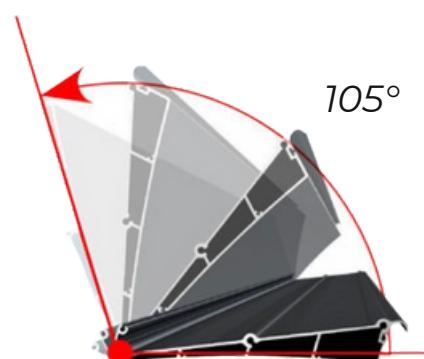
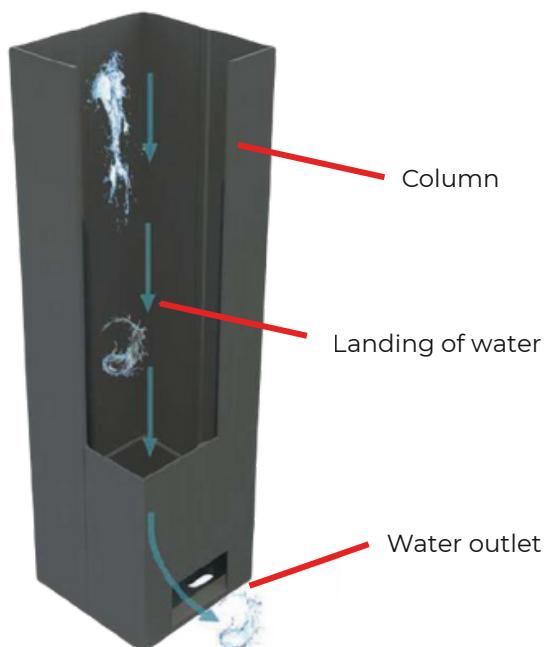


- The maximum height of the columns is **20'** the maximum span on two columns are **14'** in width and **23'** in extension.
- The supporting beam with an integrated water collection tray located along the perimeter of the entire structure allows you to effectively collect water, and the water drainage is integrated into the columns, the minimum quantity is 2 pcs.
- The number of modules along the **X** and **Y** axes is not limited, at the junction of 2-4 structures, 1 Column is used

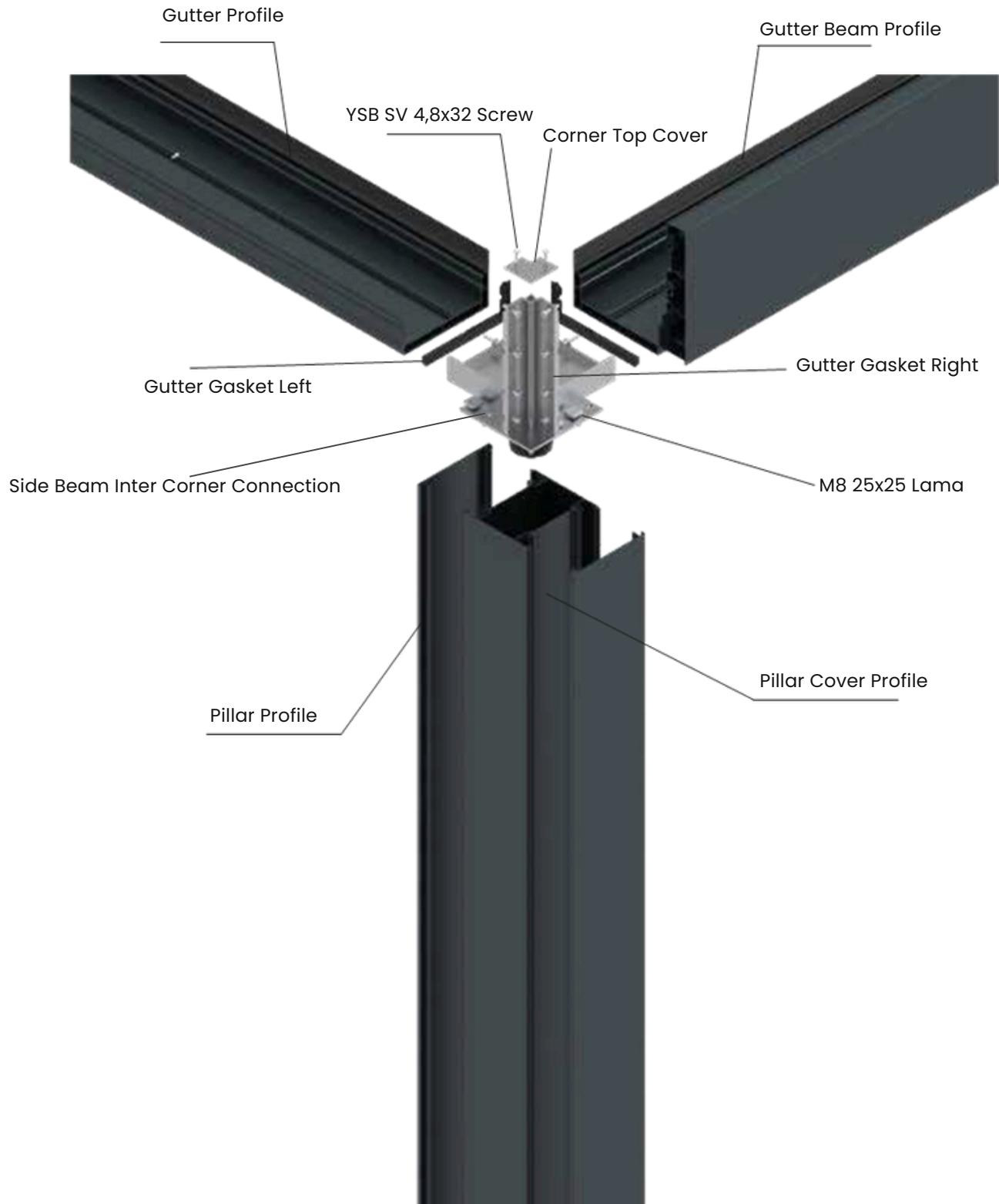


Rainwater Drainage System

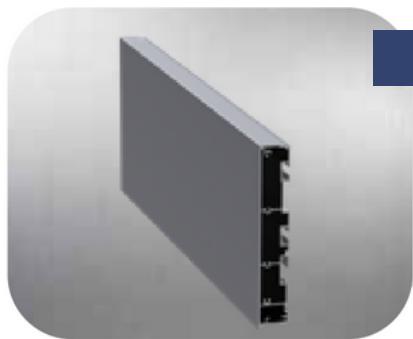
The bioclimatic systems are designed to collect rainwater. The water is directed from the panels to the gutters. The collected water is transferred to the outside through the vertical profile.



Common Corner Fitting

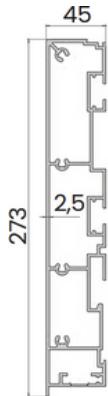


Bioclimatic Systems Profiles



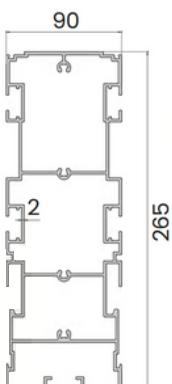
GUTTER BEAM PROFILE

Weight 3,844 lb/ft
 5,721 kg/m



MIDDLE GUTTER BEAM PROFILE

Weight 4,951 lb/ft
 7,366 kg/m



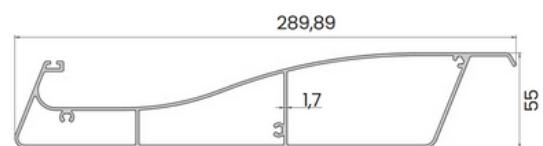
GUTTER PROFILE

Weight 2,648 lb/ft
 3,940 kg/m



PANEL PROFILE

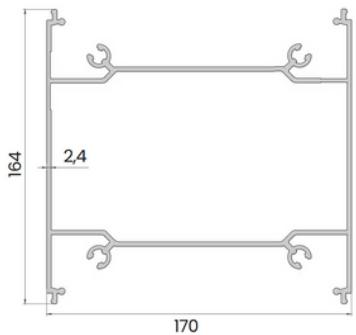
Weight 2,388 lb/ft
 3,553 kg/m





PILLAR PROFILE

Weight 3,608 lb/ft
 5,368 kg/m



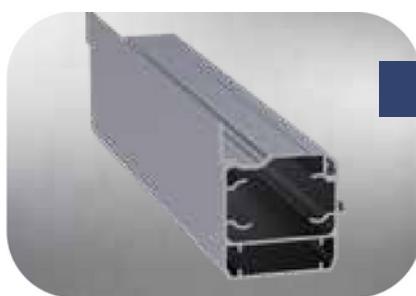
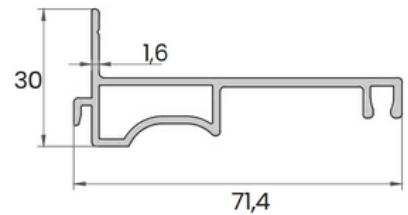
PILLAR COVER PROFILE

Weight 0,879 lb/ft
 1.309 kg/m



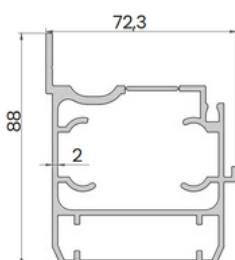
RAIL COVER PROFILE

Weight 0,486 lb/ft
 0,724 kg/m



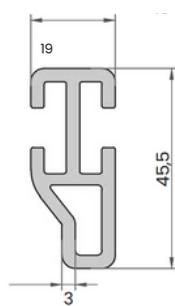
RAIL PROFILE

Weight 1,638 lb/ft
 2,439 kg/m



DRIVE PROFILE

Weight 1,008 lb/ft
 1,501 kg/m



Project Examples



