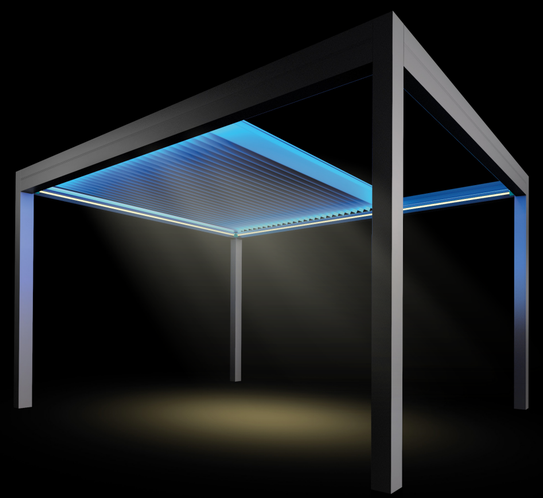
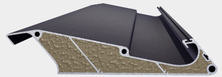
Violux



STRONG TRUSS STRUCTURE

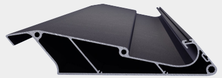
The robust truss structure provides exceptional stability, while the double-channel wick application on the panels ensures maximum insulation performance. This design effectively prevents water flowing over the panels from entering the covered area, thereby protecting the space from external weather conditions. As a result, the system offers superior resistance to rain, wind, and other environmental factors, ensuring uninterrupted comfort in all seasons.

Width	Projection	
400	800	1 sectionl



Insulated Panel

It provides extra contribution to condensation, heat and sound insulation by applying polyurethane foam to panel profiles.

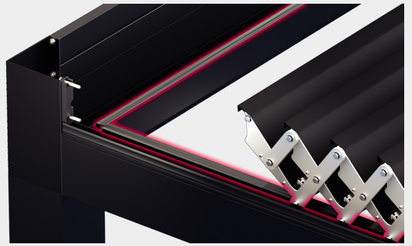


Standard Panel

It supports insulation thanks to the room gaps inside the panels.

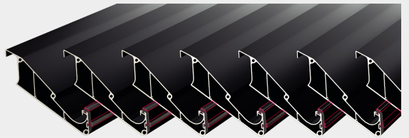
GUTTER SEAL

Maximum insulation is achieved between the panels and the gutter thanks to sealing gaskets positioned within the gutter channels on all four sides of the system. These gaskets activate once the panels are fully closed, preventing water or air ingress and enhancing overall system performance.



PANEL SEAL

It provides maximum isolation between the panel and the gutter thanks to the wicks located in the gutters on all four sides of the system and after the panels are closed.

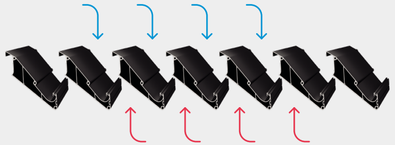


PANEL SEAL

It eliminates insulation vulnerabilities resulting from airflow turbulence and ensures complete light blocking.

VENTILATION AND INSULATION

Fully lifted panels with piston movement provide maximum ventilati-on. In winter conditions, it fulfills the ventilation function when positio-ned at an angle of 10 degrees.

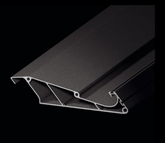


RAIN GUTTER

The rain gutter measures 163.5 × 156 mm with a weight of 7240 g/m, while the beam profile is 136.5 × 30 mm and weighs 2510 g/m. Together, they form a structural section height of 30 cm. Thanks to its enlarged internal reservoir, the gutter system effectively prevents water overflow during heavy rainfall. When assembled, the profiles interlock seamlessly using a double-claw locking mechanism, ensuring both structural integrity and stability.
This high-strength connection system enables the creation of wide-span openings without compromising performance or safety.

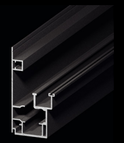
FRONT POST PROFILE

The front post profile measures 160 × 160 mm and weighs 6050 g/m. The posts are mounted by inserting a PVC pipe into the integrated water drainage channel, using a specially designed claw cap system. Water collected from the gutter is discharged through this internal drainage mechanism with the help of PVC components.
The posts are fixed to the ground using a 6 mm aluminium flange, which conceals all visible screws, maintaining a clean and uninterrupted aesthetic.
To ensure long-term durability, stainless steel bolts and drainage fittings are used, preventing oxidation and corrosion.



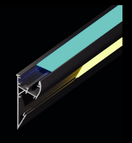
PANEL

Panel profiles have a width of 20.6 mm and a weight of 4630 g/m.
Thanks to the hidden slope integrated within the panel, potential water accumulation is effectively prevented.
Additionally, the specially designed reservoir at the top of the panel helps stop debris or other substances from falling inside the system during the opening process.



RAIL

The rail profile measures 70 × 137 mm and weighs 2877 g/m. Its integrated design provides ease of installation and ensures a seamless connection within the overall system.



LED PROFILE

The aluminium panel system features high-quality 24V LED lighting.
Each profile includes both standard lighting (700 lumens, 3000 Kelvin – daylight) and ambient RGB lighting directed toward the panel surface.
The system is equipped with Samsung LED modules, ensuring superior brightness, efficiency, and long-term reliability.
Additionally, the LED profile is designed independently from the gutter system, allowing for stable performance and an extended service life.

DRAINAGE

With the specially designed cover of the post profiles, water can be directed through the internal strut using pipes and discharged at desired exitpoint
Painted finish elements, matched to the aluminium system's colour, are used at the drainage exits for a clean and seamless look.
Flexible and adaptable to various structural layouts, this drainage system allows water to be discharged from any point of the pergola as required.

CORNER ADAPTOR

One of the key features that sets this system apart is the specially designed corner adaptors located at all four corners. These adaptors eliminate the need to cut the gutters at 45 degrees, significantly improving the alignment and compatibility between profiles. By placing high-quality rubber gaskets between the corner adaptors and the gutter, the need for silicone sealants is eliminated, effectively preventing water leakage and ensuring long-term waterproof performance.

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COMPLEMENTARY STRUCTURE

Specially designed profiles and gaskets are applied to the front, rear, and sides of thesystem. These components protect the essential working parts including the motor, electrical units, and mechanical elements from external conditions such as water, dust, and debris. By preventing drainage blockages, they reduce the need for maintenance and contribute to the system's long-term performance. Additionally, they enhance the overall aesthetic by providing visual continuity and a clean finish from every angle.