



OUTDOOR LIVING REDEFINED



BIOCLIMATIC PERGOLA

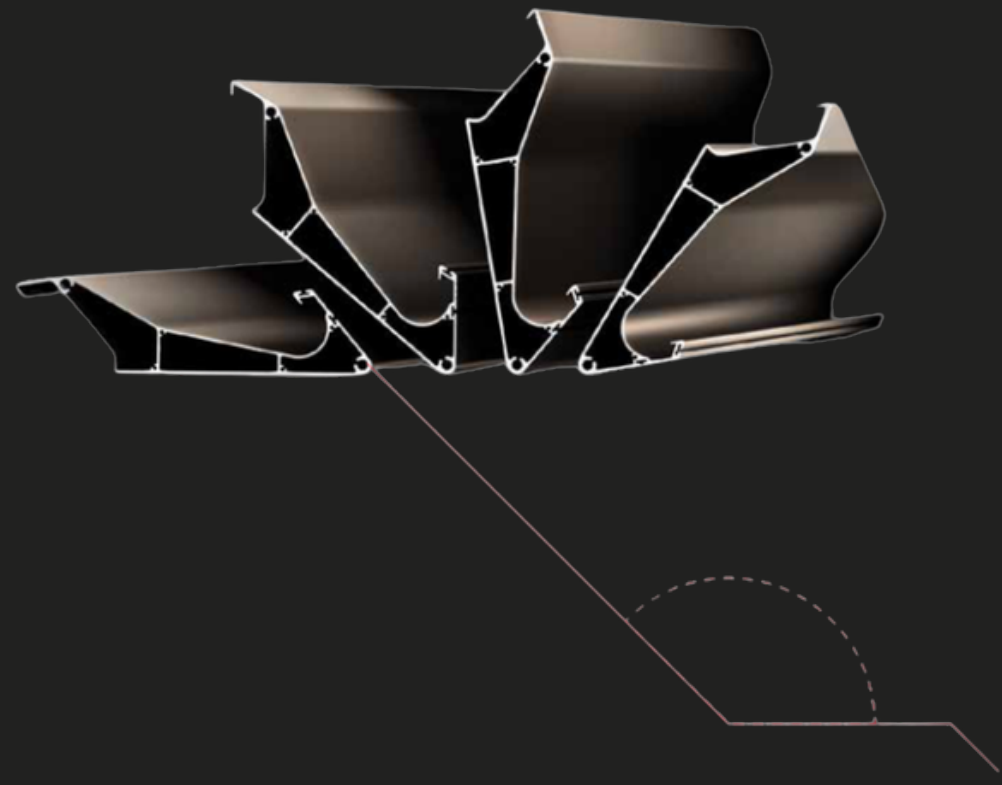
A motorised aluminium roof system engineered to put the atmosphere in your hands — opening to the sky, closing against the weather, or filtering light and air between the two. Available in two configurations, each suited to a different way of opening the roof, both built on the same standard of concealed drainage, integrated LED, and smart automation.

ROTATABLE

Louvres pivot up to 110 degrees on a fixed frame, tuning light and airflow in a single continuous movement.

RETRACTABLE

The roof panels withdraw fully to open the sky, or close completely to seal against rain.



ROTATABLE PRECISION AXIS ROTATION

Each panel rotates up to 110 degrees on its own axis, delivering precise control over light, shade, and airflow in a single continuous movement. As the louvres track the sun's angle, they optimise shading without interrupting ventilation — eliminating the binary choice between shelter and fresh air. The result is a roof that reads the environment and responds to it, sustaining comfort across every hour of the day.



ROTATABLE

	Max. width	Max. projection
Single Module 1	4500 mm	8000 mm
Single Module 2	6000 mm	6000 mm

per section — combinable for larger spans

Max Dimensions:	4500 × 8000 mm / 6000 × 6000 mm per module (combinable)
Structure:	T6-6063 extruded aluminium
Configuration:	Wall-mounted or freestanding
Finish:	Polyester powder coat — RAL to specification
Operation:	Bibus motorised
Louvre Rotation:	0° to 110°, automated
Drainage:	Fully concealed, routed through front posts
Options:	Integrated LED, insulation, sensors, glass & shading integration
Performance Testing:	ift Rosenheim certified — Wind & Snow Load
Warranty:	Structure: lifetime / Motors: 5 years / Accessories: 2 years

PRECISION AXIS DRIVE

Each panel rotates independently on its own axis via a dedicated drive motor, delivering simultaneous control over light and ventilation in a single fluid movement. The motorised mechanism operates with consistent torque across the full 110-degree rotation range, ensuring reliable performance under varying load and weather conditions.



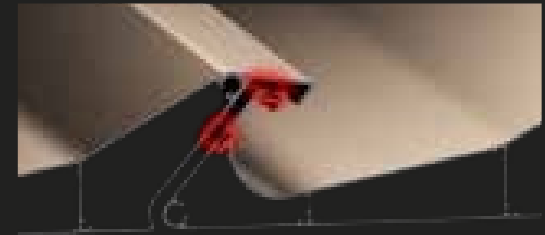
STANDARD PANEL & INSULATED PANEL

Both panels utilise hollow-chamber aluminium profiles for inherent thermal buffering. The insulated variant adds polyurethane foam directly into the profile — enhancing resistance to condensation, heat transfer, and rain noise for installations where acoustic and thermal comfort are a priority.



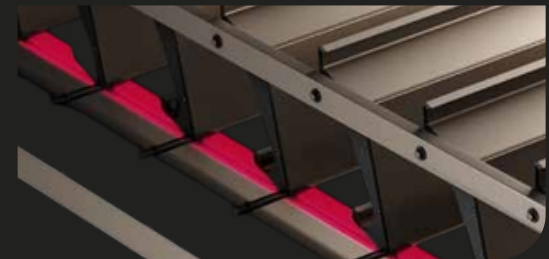
VENTILATION AND INSULATION

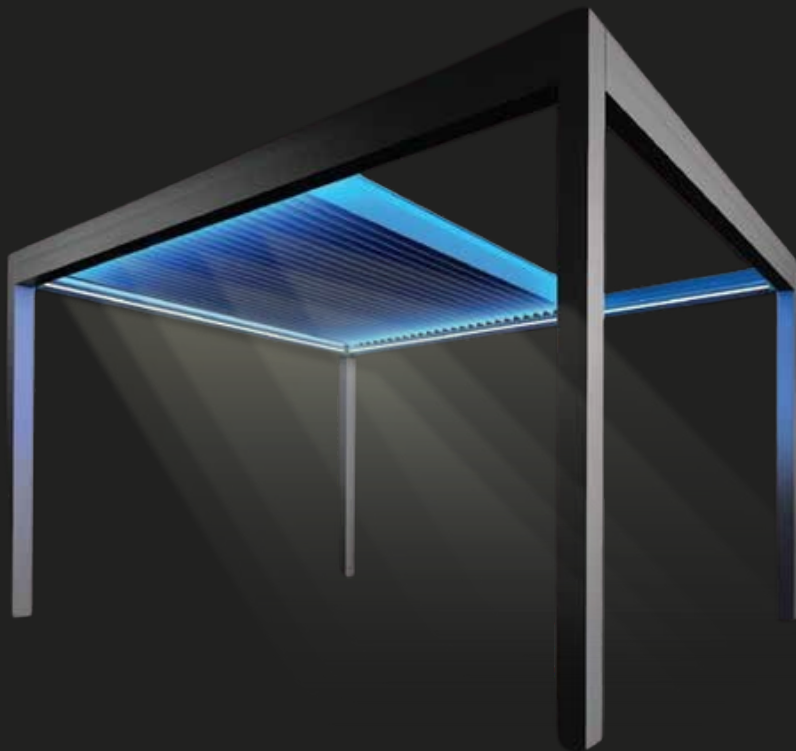
Panels rotate up to 110 degrees on their own axis, opening fully to maximise natural airflow across the covered space. In winter conditions, positioning the louvres at 10 degrees sustains ambient ventilation without compromising thermal performance.



GUTTER SEAL

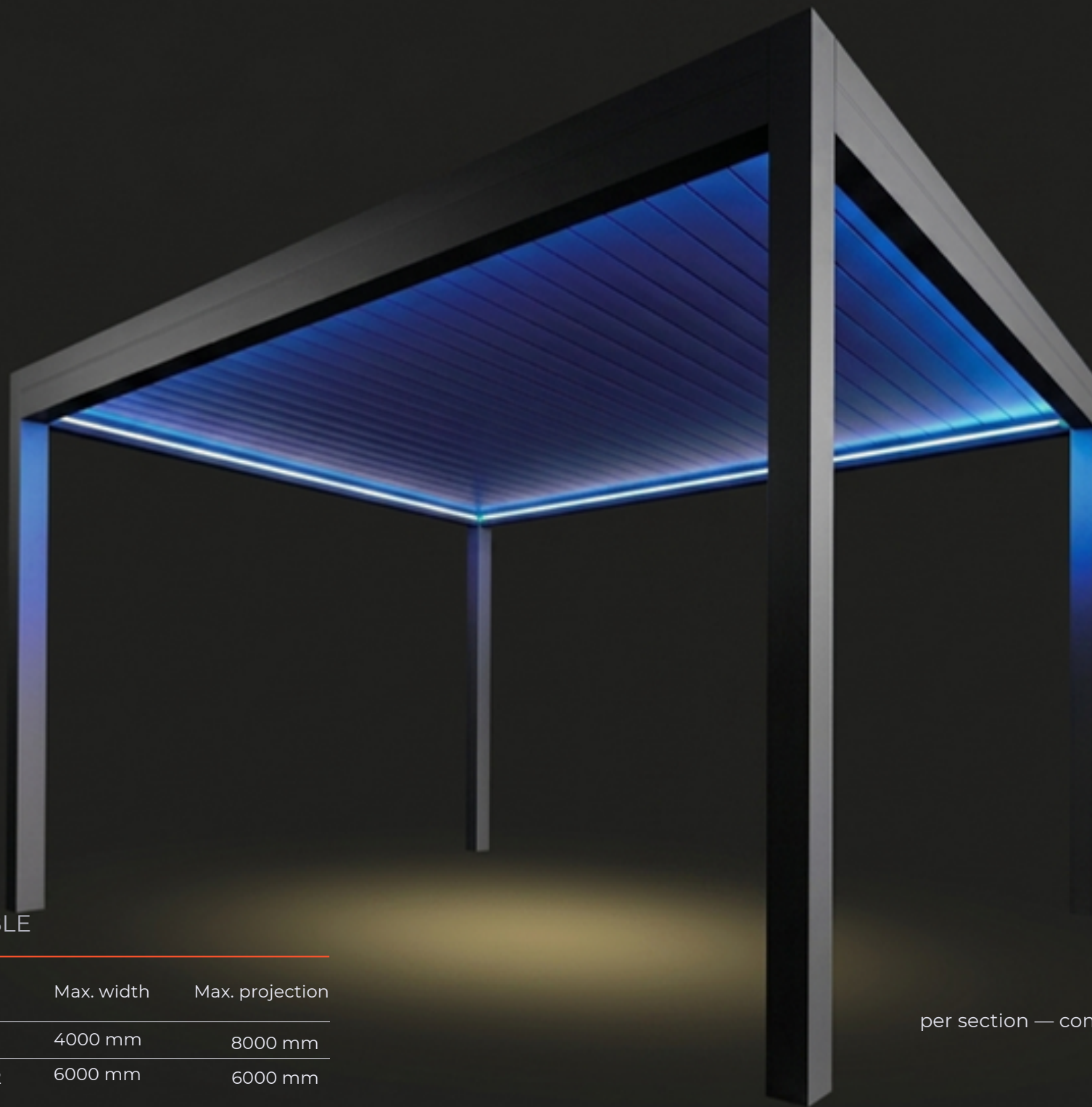
Sealing wicks seated within the gutter channels on all four sides of the system engage automatically as panels rotate to their closed position — preventing water and air ingress at every contact point and ensuring consistent weatherproofing performance across the full perimeter.





RETRACTABLE STRONG TRUSS STRUCTURE

The robust truss structure delivers exceptional structural stability, while the dual-channel weatherseal system on each panel ensures maximum insulation performance. This engineering effectively prevents water ingress during rainfall, protecting the covered space from the elements. The result is a system built for superior resilience against rain, wind, and varying environmental conditions — ensuring uninterrupted comfort throughout all seasons.



RETRACTABLE

	Max. width	Max. projection
Single Module 1	4000 mm	8000 mm
Single Module 2	6000 mm	6000 mm

per section — combinable for larger spans

Max Dimensions:	4000 × 8000 mm / 6000 × 6000 mm per module (combinable)
Structure:	T6-6063 extruded aluminium
Configuration:	Wall-mounted or freestanding
Finish:	Polyester powder coat — RAL to specification
Operation:	Somfy motorised / silent rail system/ smart home compatible
Drainage:	Fully concealed, routed through front posts
Options:	Integrated LED, insulation, sensors, glass & shading integration
Performance Testing:	ift Rosenheim certified — Wind & Snow Load
Warranty:	Structure: lifetime / Motors: 5 years / Accessories: 2 years

GUTTER SEAL

Precision-seated sealing gaskets within the gutter channels on all four sides of the system engage automatically upon panel closure — preventing water and air ingress and ensuring consistent weatherproofing performance.



PANEL SEAL

Dual-channel sealing gaskets run the full length of each panel profile, creating a continuous weathertight barrier between adjacent panels and eliminating gaps that could allow moisture or air penetration.



PANEL LOCK

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



VENTILATION AND INSULATION

Panels lift fully via motorised piston movement to provide maximum ventilation. In winter conditions, positioning the panels at 10 degrees maintains airflow without compromising thermal performance.



STANDARD PANEL & INSULATED PANEL

Both panels utilise hollow-chamber aluminium profiles for inherent thermal buffering. The insulated variant adds polyurethane foam directly into the profile — enhancing resistance to condensation, heat transfer, and rain noise for installations where acoustic and thermal comfort are a priority.





CORNER ADAPTOR

A defining engineering detail of this system is the precision-machined corner adaptors positioned at all four corners of the frame. By eliminating the need for 45-degree gutter cuts, these adaptors ensure exact profile alignment and a consistently clean finish. High-quality rubber gaskets seated between each adaptor and gutter create a fully sealed junction — removing the dependency on silicone sealants entirely, and delivering reliable, long-term waterproofing performance.



COMPLEMENTARY STRUCTURE

Purpose-engineered profiles and gaskets are integrated across the front, rear, and sides of the system, providing comprehensive protection for all critical components — including the motor, electrical units, and mechanical assemblies. Designed to seal against water, dust, and debris, these elements prevent drainage blockages and significantly reduce maintenance requirements. Beyond performance, the profiles deliver visual continuity across every elevation, ensuring a refined, uninterrupted finish from all angles.



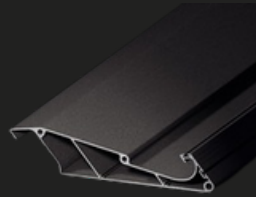
RAIN GUTTER

The rain gutter measures 163,5 × 156 mm with a weight of 7,240 g/m, whilst the beam profile measures 136,5 × 30 mm and weighs 2,510 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 via a double-claw locking mechanism, ensuring both structural integrity and stability. This high-strength connection system enables wide-span openings without compromising performance or safety.



FRONT POST PROFILE

The front post profile measures 160 × 160 mm and weighs 6,050 g/m. Posts are mounted via a purpose-designed claw cap system, which inserts a PVC pipe directly into the integrated drainage channel. Water collected from the gutter is discharged through this internal mechanism using PVC components. Each post is fixed to the ground with a 6 mm aluminium flange, concealing all visible fixings and maintaining a clean, uninterrupted aesthetic. Stainless steel bolts and drainage fittings are used throughout, preventing oxidation and ensuring long-term durability.



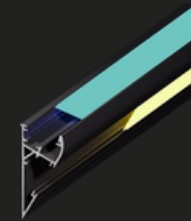
PANEL

Panel profiles measure 20,6 mm in width and weigh 4,630 g/m. An integrated hidden slope within each panel prevents water accumulation effectively, whilst a purpose-designed reservoir at the panel's leading edge intercepts debris and foreign matter before it can enter the system during operation.



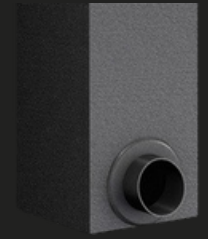
RAIL

The rail profile measures 70 × 137 mm and weighs 2,877 g/m. Its integrated design simplifies installation whilst ensuring a seamless connection throughout the overall system.



LED PROFILE

Each panel profile incorporates high-quality 24V LED lighting, combining standard illumination (700 lumens, 3,000 Kelvin — daylight white) with ambient RGB lighting directed towards the panel surface. Samsung LED modules ensure superior brightness, efficiency, and long-term reliability. The LED profile is engineered independently from the gutter system, guaranteeing stable performance and an extended service life.



DRAINAGE

The purpose-designed post profile covers allow water to be routed through the internal strut via pipework and discharged at any required exit point. Painted finish elements, colour-matched to the aluminium system, ensure a clean and seamless appearance at all drainage outlets. The system's flexible configuration allows water discharge from any point of the structure, adapting to a wide range of installation layouts.

Tested. Certified. Built to Perform.

The Bioclimatic Pergola has been independently tested by ift Rosenheim GmbH, one of Europe's foremost accredited testing institutes for building components. All results confirm full compliance with the applicable European test standards.

STRUCTURAL - ATMOSPHERIC Wind Load Resistance EN 1932:2013-06 - External Blinds & Shutters <table><tr><td>Nominal load — 270 Pa</td><td>PASS</td></tr><tr><td>Nominal load — 400 Pa</td><td>PASS</td></tr><tr><td>Safety load — 400 Pa</td><td>PASS</td></tr><tr><td>Safety load — 600 Pa</td><td>PASS</td></tr></table> CLASS 6 - HIGHEST CLASSIFICATION - NO DEFORMATION - NO DISPLACEMENT	Nominal load — 270 Pa	PASS	Nominal load — 400 Pa	PASS	Safety load — 400 Pa	PASS	Safety load — 600 Pa	PASS	STRUCTURAL - LOAD BEARING Snow Load Resistance EN 12933:2001-10 - Skylights & Conservatory Shutters <table><tr><td>Nominal load — 600 Pa</td><td>PASS</td></tr><tr><td>Nominal load — 800 Pa</td><td>PASS</td></tr><tr><td>Safety load — 900 Pa</td><td>PASS</td></tr><tr><td>Safety load — 1,200 Pa</td><td>PASS</td></tr></table> ALL CRITERIA MET - NO PERMANENT DEFORMATION - NO BREAKAGE - SAFETY FACTOR $\gamma=1.5$	Nominal load — 600 Pa	PASS	Nominal load — 800 Pa	PASS	Safety load — 900 Pa	PASS	Safety load — 1,200 Pa	PASS
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TESTING LABORATORY ift Rosenheim GmbH Notified Body No. 0757 EN ISO/IEC 17025 · DAkkS Accredited	TEST REPORTS Wind: 25-004105-PR01 Snow: 25-004105-PR01 Date of Report: 11 February 2026	TEST SPECIMEN 4,000 × 6,020 mm Aluminium Alloy 6063-T6 Motor: Becker LI20/11 C12 PSF+	TEST ENGINEER Alexandros Simeonidis, B.Eng. Building Component Testing ift Rosenheim GmbH
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