

BIOCLIMATIC SYSTEM TECHNICK DETAILS

What is Bioclimatic?

- ❖ Bioclimatic system, is a roof system made of aluminum panels which can be approximately rotated 90 degrees.
- ❖ Bioclimatic pergolas, which are developed for you to experience spending your time at outdoors with the top quality; are beeing produced to offer you the highest security that a pergola system could reach.
- ❖ With it's air tightness system, it also has a high quality performance about isolation. Inside the panels are isolated with polyurethane.
- ❖ On the rainy and snowy weathers, even when the system is open, it provides air conditioning on %1-4 rate with it's qualified designed profiles, without taking on the water indoors.
- ❖ The product has 40 kg of load carrying capacity per m2.
- ❖ When the system is withdrawn, it provides %70 of beneficial usable space.
- ❖ The panels can be cleaned easily, because of their function of opening and closing.
- ❖ The system is eligible to use on four seasons.
- ❖ Because of it is a flat system, there will be no height loss and it creates a spacious environment.

Max Width: 4000 mm

Max Opening: 7000 mm



Technical Details

- ❖ All the profiles and construction are painted with electrostatic powder paint. It can be painted to any colour which is desired.
- ❖ The system construction is made of aluminum.
- ❖ Bioclimatic systems might offer integrated lighting solutions but also, optionally, remote controlled LED lighting modules can be attached to the system.
- ❖ The mobility of the system is provided with Somfy Motor.
- ❖ Motor torque is 85 Nm – 120 Nm and turnover is 27 Rpm.
- ❖ High quality aluminum connections are used on the system.
- ❖ All connection equipments, bolts and gibs are rustproof INOX brand.
- ❖ Air and water isolation is provided all around the system.
- ❖ Folding, sliding, guillotine glass and zip screen systems can be applied on all sides of the system.
- ❖ The system is manufactured on the standards of CE and TÜV.

• Water Drainage

The rain water that spills on top of the panels are transferred to the right and left gutter.

Water gets evacuated in control, by the channels and front pillars.

In case of rain with wind, water spillage is prevented if rain water puts a reverse pressure on the system. With this qualification, water never puts pressure downside and it doesn't get evacuated to bottom side.

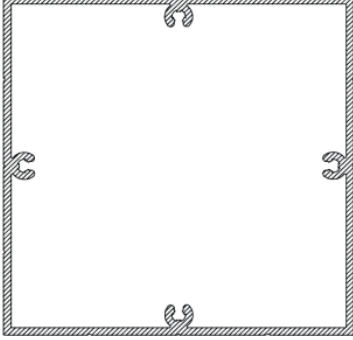
• Warranty

- The product is under 2 years of warranty in case of montage and equipment failures, and 5 years of warranty in case of motor failures.

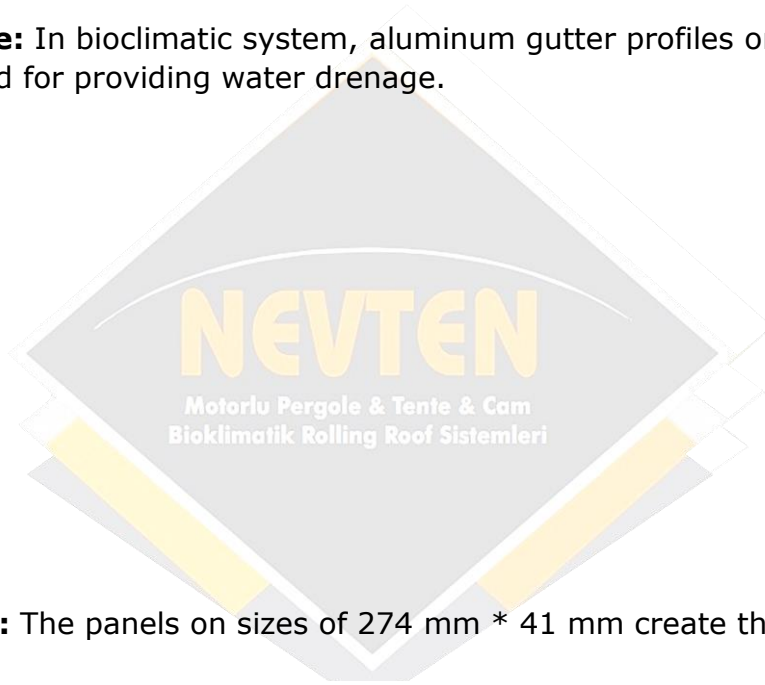
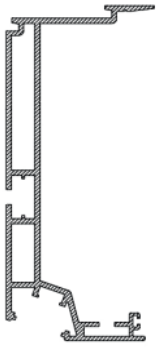
Bioclimatic System Section Details

- **Pillar Profile:** The system is located on 160 * 160 * 3,5 mm aluminum pillars.

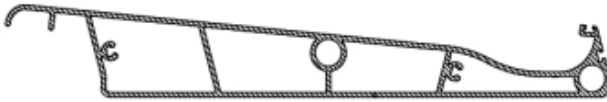
Flange and aluminum pillars's floor connection details are made which fit to the drawing of details.



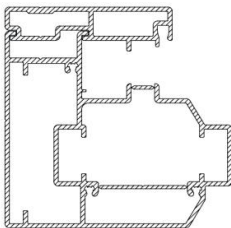
- **Gutter Profile:** In bioclimatic system, aluminum gutter profiles on size of 230 * 250 * 3 mm are used for providing water drainage.



- **Mobile Panel:** The panels on sizes of 274 mm * 41 mm create the system's foldable roof.



- **Rail:** The rails on the size of 102 * 92 * 2 mm provide forward-backward moves of the system panels.

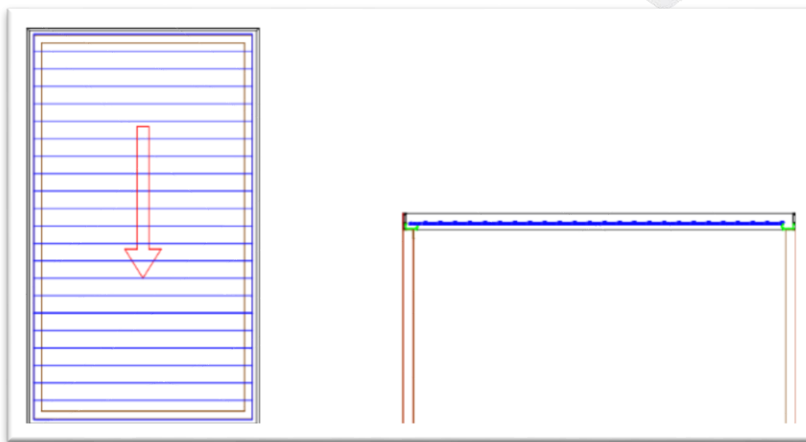




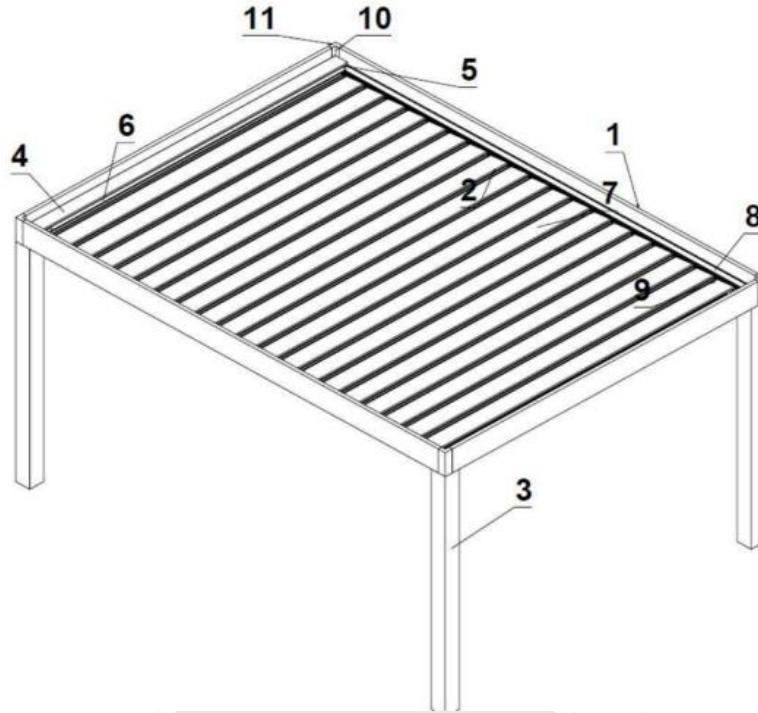
- The coldness & heat isolation is provided with polyurethane application inside the panels.



- 4 pillars on the size of 160 * 160 mm are used in one system.



- View from top
- View from side



No 1: System's Outer Frame

No 2 : Gutter

No 3: Pillar

No 4: Motor Frame

No 5: Motor box

No 6: Motor Slat

No 7: Panel

No 8: Rail Frame

No 9: Rail

No 10: Internal Nail

No 11: Outer Frame Hatch

“HAND TO HAND WITH OUR DEALERS, PRODUCTION TO THE WORLD”