



Sunpark Omega



The Sunpark Omega System is a self-supporting canopy system in which solar panels function as the roof.

Together with roof rails and ridge elements, the panels form a V-shaped pitched roof with a high level of watertightness and controlled drainage. This roof is supported by robust gutters, allowing free spans of up to approximately 5 metres.

By mounting the gutters on horizontal beams, material usage is optimized, enabling large column spacing while maintaining a slim and efficient structure.

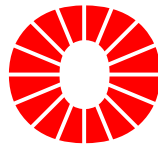


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Public area



Canopy



Structural Standards

Within the Sunpark range, Robisol distinguishes between the Sunpark Greenhouse System and the Sunpark Omega System.

The structural design is based on European standards and Dutch regulations (Bbl). NEN-EN 13031 applies to greenhouses and garden centres, while the Eurocodes (EN 1990–1999) apply to other applications. Due to higher requirements for wind and snow loads and safety factors, the Omega System uses heavier profiles.

The Sunpark Omega System is designed according to the Eurocodes, based on Dutch wind and snow regions (wind region I, consequence class CC2, gutter height up to approx. 9 m), ensuring a robust and reliable solution. This allows for flexible application, including higher structures, smaller spans or bay widths, and partially or fully enclosed façades.

For projects outside the Netherlands, verification and approval by a locally certified structural engineer is required.



Roof span

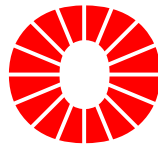
	3,40m	3,75m	4,00m	4,30m	4,50m	4,65m
PV power	± 460 Wp	± 510Wp	± 545Wp	± 600Wp	± 625Wp	± 650Wp
PV length	1762mm	1961mm	2094mm	2278mm	2382mm	2465mm

Solar Panels

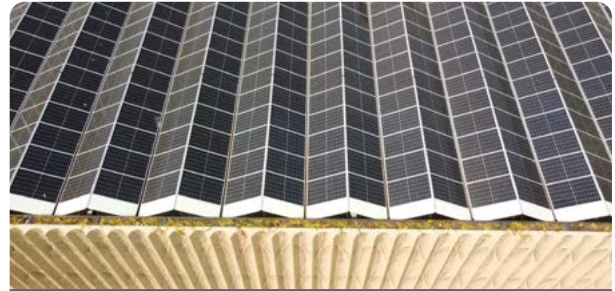
The Sunpark Omega System is designed for standard solar panels in portrait orientation. The panels are installed between gutter and ridge and are laterally connected by roof purlins. For proper drainage and condensation control, the roof pitch ranges from 20° to 23°. The roof dimensions vary depending on the panel size and are shown in the table above.

The current standard consists of solar panels with a frame thickness of 30 mm and a width of 1134 mm. With these panels, the energy yield of the Sunpark Omega System is approximately 240 Wp/m².

Project-specific adjustments are possible. For installations with a lower roof pitch, a 10° variant is available. Custom solutions can also be developed to meet specific project requirements.



Carwash



Parking garage



Storage



Logistics site

Applications

The Sunpark Omega System is suitable for applications such as:

- carports
- parking canopies
- entrance canopies
- storage areas
- warehouses
- agricultural sheds

The light-transmitting properties of the solar panels provide pleasant natural daylight beneath the structure.

Due to limited thermal insulation, the system is less suitable for heated buildings, such as offices or residential applications.

