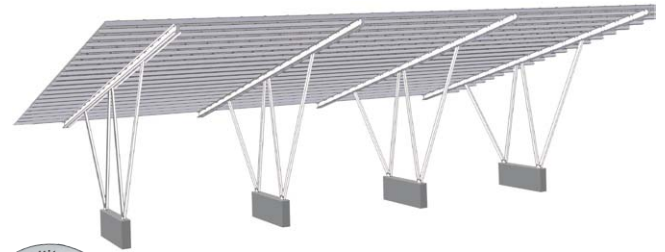




Park@Sol

The modular car port system

- swift and simple mounting
- optimum area utilization
- suitable for all kinds of modules
- Different kinds of foundation on request



The energy balance becomes more and more important in times of climatic change and diminishing energy resources. Increasing fuel costs, compulsory environmental certifications, or also the simple wish for a positive image regarding the environment, are credited with more and more importance in the construction of new company buildings. So especially photovoltaic plants on company roofs offer a welcome measure to considerably improve the energy balance of the building. But in many cases the roof surfaces are too small to make the desired contribution or to put into effect the concept of a energy independent building.



Solar car ports offer an ideal completion for the extensive use of photovoltaic power generation, especially as the roof areas on car ports get the maximum compensation according to the electricity feeding law!

The Park@Sol is based on the consequent further development of the Schletter-**FS**-open area mounting systems that already have been used for the realization of many projects in Germany and other European countries and also in North America on a scale of several hundred MW. There are not only special experiences in the area of individual static optimization for the most different regional snow and wind conditions, but especially also for the fastening of any kind of module design. So especially for the unframed thin-layer modules that are more and more used with extensive plants, numerous fastening options have been developed in close consultation with the respective module producers. The range goes from the fastening with bolted module clamps over a special time-saving **Klick**-mounting technology up to the fastening of extensive modules by means of the so called **OptiBond**-gluing technology, which reduces the glass tensions within the module to a minimum.



Our long-term experience as the market leader in the field of fastening technology secures your investment in the future!



Designs

For an optimum and economically optimized utilization of the areas at your disposal, different kinds of basic designs are available. Each plant is configured on the customer's request on the basis of the chosen basic design according to the following parameters:

- Module type and design
- Plant size
- Soil conditions
- Distances between supports resp. partition of parking lots
- Design modifications on request

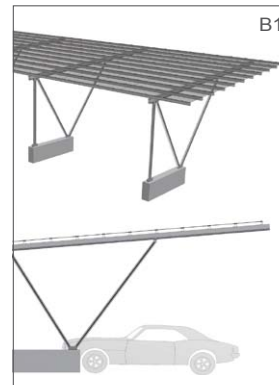


Rammed foundation

- Field span-width ca. 5m (other span-widths on request)
- Concrete foundation as a bumping protection
- Unimpeded door opening

Vehicle arrangement

1-rowed: **B1**
 2-rowed: **B2**

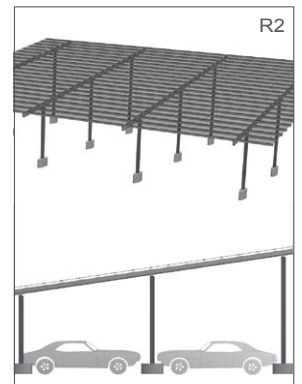


Rammed foundation

- Field span-width ca. 5m (other span-widths on request)
- Concrete ground collar as a bumping protection
- Ground collar height optimized for an unimpeded door opening. Door opening
- Cast-in-place concrete boarding for concrete ground collar on request

Vehicle arrangement

1-rowed: **Eco** - central support
R1 - 2 supports in a row
 2-rowed: **R2** - 3 supports in a row

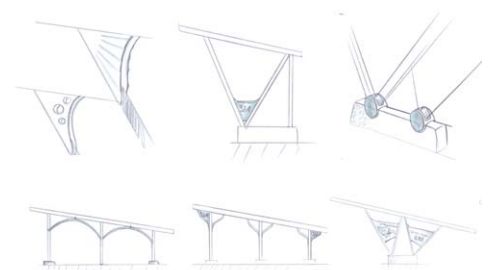


Park@Sol Design

The basic designs of **Park@Sol** are based on the statical and thereby the economic optimization for the respective case of application. But in the future, many car port applications will be in front or behind representative company buildings. They are the company figureheads that are presented to visitors, represent a positive eco-friendly image and a future orientated mindset. But at the same time they grant the opportunity **to display the CorporateDesign of the company** and show it to the customer

Therefore, our car ports **can be designed in all kinds of design forms** and versions.

Below please find a few ideas, we will be pleased to submit you further suggestions!



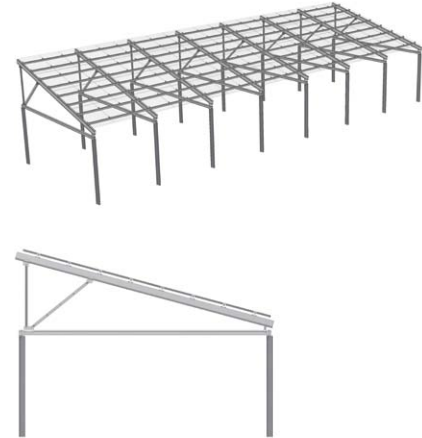


Plant@Sol - The solar glasshouse

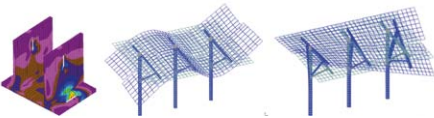





With only little modifications, also individual construction forms for solar glasshouses can be designed on the basis of the optimized statical concepts of the Schletter car port series

As the supports are arranged in the edge area in a statically optimized manner, **an unrestricted usability of the inner area is obtained**. We will be pleased to develop an individual concept for you based on your project inquiry.

- Price-optimized design
- Rammed foundation, concrete ground collar in case of inferior ground conditions
- Modular construction sizes on request (optimized acc. to module type)
- Boardings on the sides on request
- Rain impermeability on request



Technical data

Material	<p>Fixation elements, screws stainless steel 1.4301 Profiles aluminium MgSi05 /EN AW 6063, EN AW 6005 Rammed foundations: Steel, hot dip galvanized</p> <ul style="list-style-type: none"> • High durability, high residual value, no disposal costs • Simple plant repowering due to modular concept
Logistics	<ul style="list-style-type: none"> • Swift and simple mounting • Maximum level of prefabrication • Optimized transport to the installation site
Construction	<ul style="list-style-type: none"> • Cost-optimized complete construction based on the static optimization • For framed and unframed modules • Minimum soil sealing
Accessories	<ul style="list-style-type: none"> • Cable channels, cable ducts • Lightning protection system (FSProtect system) • Components for internal potential equalization • Clamps for different types of modules • Fastening systems for extensive laminated modules (OptiBond system) • Cast-in-place boardings for concrete ground collars
Statics calculation	<ul style="list-style-type: none"> • Individual terrain statics on the basis of a soil expertise (for rammed construction forms) • Individual systems statics based on the regional load values • Load assumptions acc. to DIN 1055, part 4 (03/2006), part 5 (06/2005), part 100 (03/2001), Eurocode 1 (06/2002), DIn 4113, DIN 18800, Eurocode 9 and further, resp. specific national norms • Patented profile geometries with optimum material utilization • Statics calculation of all construction components on the basis of FEM-calculation • Vibration simulations regarding wind loads on request • Earth quake simulation, optional 
Delivery and services	<ul style="list-style-type: none"> • Soil examination and soil statics • Individual rack statics based on regional data • Pile-driving of supports and delivery of the complete mounting material • Cast-in-place concrete boarding for concrete ground collar on request • optional: Mounting • optional: Complete module mounting
Lightning Protection Earthing Potential Equalization	<ul style="list-style-type: none"> • Extension with outward lightning protection system possible • Components for internal potential equalization • Potential equalization certified acc. to VDE 0100, part 712
Warranty and Certifications	    



Mounting impressions (Pictures: JUWI Solar Wörrstadt)



Supporting structure



Purlin mounting

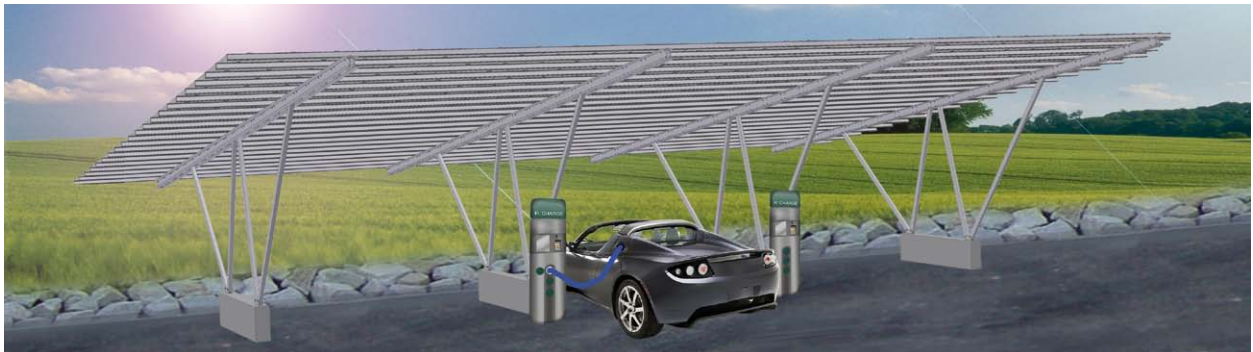


Module mounting

The mobility of the future belongs to the electric vehicle!

The Schletter solar car port system Park@Sol is not only the extended photovoltaic plant with full compensation for electricity fed into the grid, but at the same time the basis for an eco-friendly and image-promoting fleet of electric company vehicles, starting from a simple electric scooter over utility vehicles, up to representative electric sports cars. To make sure that company car park of the future can really profit from the advantages regarding energy balance, CO2-certificates and eco-friendliness, the energy supply for the company vehicles from renewable sources of energy is indispensable. So what seems more natural than a combination of an electric vehicle motor pool on car ports as part of a photovoltaic plant!

Present your visitors your concept of a future-orientated mobility!



Our P.Charge system offers you charging stations in any desired equipment version as a completion of your motor pool, optionally with or without cost-calculation of the amount of electricity consumed, and of course according to your design wishes. Thereby, you present an eco-friendly image to your visitors already in front of the door!



System P.Charge as a completion of the solar car ports by Schletter.
 Different designs in ground mounting or wall mounting on request