Professional Solar Mounting Systems

Ground Mount Systems

SCHLETTER

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Ground Mount Systems Overview

Contents

Ground Mount Systems
Installed Quickly and with the Durability to Last

Schletter's **FS System™** is designed to be the most cost-effective system that allows for quick and easy installation on virtually any terrain. It uses state-of-the-art production procedures and equipment to ensure quick turnaround of all standard components, as well as fast and flexible designs of custom systems.

Arriving on-site virtually pre- assembled, the FS System utilizes pile-driven, hot-dipped galvanized steel posts. This installation technique eliminates the need for concrete foundations, reducing material and installation costs.

When working with Schletter on project planning and design, site characteristics are analyzed to ensure the system meets all code requirements. Soil analysis, wind and snow loads, terrain considerations, and national code standards all play a part in the final design. The end result is an installation designed for the long term — with unquestionable durability — at a great price.

Alternatively, the **PvMax™** utilizes concrete pads as a ballast, and allows for system installation without digging, boring, or geotechnical testing. The PvMax is ideal for small to mid-size installations and on terrains with rocky or unstable soils, such as covered Landfill sites.

The latest in state-of-the-art production equipment allows for highly efficient manufacturing of standard components and fully custom systems.

Producing quality products is a central pillar of Schletter's manufacturing philosophy. To further this goal, Schletter follows the ISO 9001:2008 quality and safety standards and undergoes yearly audits by outside inspectors to verify ISO compliance.

Ordering Process
From Planning to Completion

Project Checklist

In order to provide accurate quotes quickly, Schletter has developed an easy-to-complete project checklist that can be found on-line, at the web address listed below, or obtained from any technical sales representative.

While some off-the-shelf projects may not require it, the checklist is essential for custom-designed projects in order to ensure that the designs meet both code and customer expectations.

Download the project checklist on-line: www.schletter.us/brochures.

Ordering Process

Schletter offers design services for mounting systems at no charge*. When working with our sales and engineering departments, projects are generally handled as outlined below:

1. The project checklist is completed and submitted to technical sales.
2. Technical sales creates an initial design and pricing then submits to customer as a formal offer or quote.
3. Once the offer is signed, any applicable geotechnical testing will be conducted.
4. The initial offer will be modified, if necessary, based on the results of geotechnical testing.
5. Project is manufactured and pre-assembled to exact specifications, and a delivery schedule is coordinated with the customer.
6. Delivery of material, ready for quick installation!

Off-the-Shelf Solutions

Because not all projects require a high level of custom design, Schletter offers several easy-to-order options that, in most cases, can ship the same day.

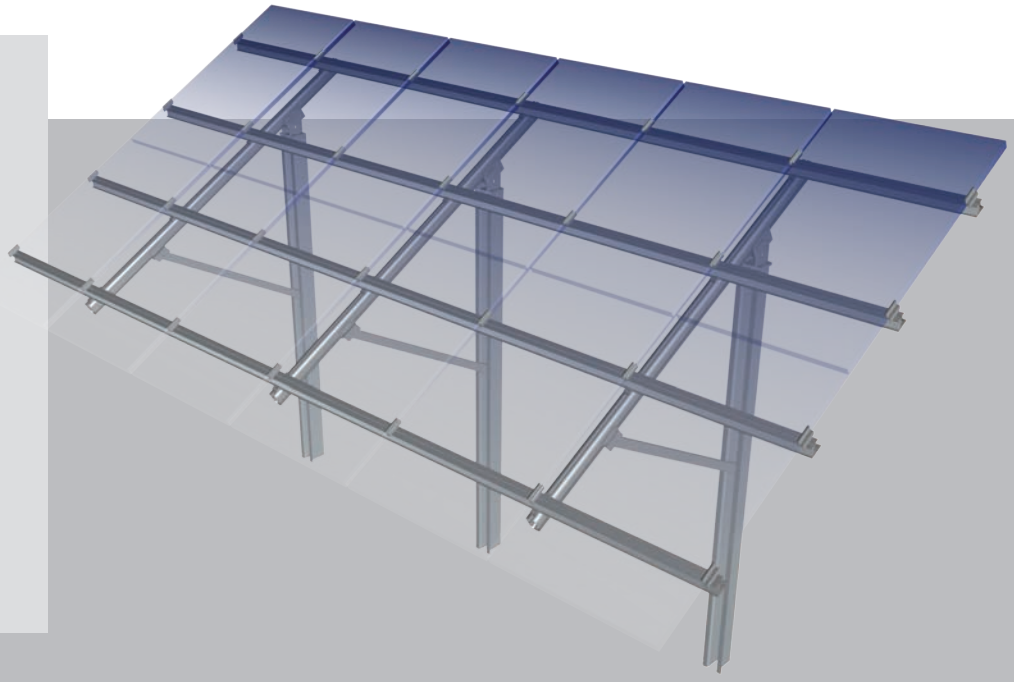
Off-the-shelf mounting solutions can be ordered conveniently on-line. Current customers can access the on-line store in the customer log-in section of our website.

For more information on this new service, please e-mail mail@schletter.us or call (520) 289 - 8700 (for locations in the United States, Central and South America). If located in Canada, please e-mail mail@schletter.ca or call (519) 946 - 3800.

**In unusual cases requiring a significant number of drawing modifications by the customer, an engineering design charge may be assessed.*

Installed in some of the world's largest, most robust systems, the FS System is the figure-head of Schletter's ground mount solutions.

Projects like Mesquite Valley (150MW), Brandis (40MW) or San Alberto & Alfonsine (70MW) demonstrate that verified structural safety, high-value materials and low prices are not conflicting targets!



FS System™
Pile-Driven Ground Mount Solution

Key Advantages

- ETL Classified to UL Subject 2703
- No soil sealing required
- High durability and top-quality materials
- Industry-leading installation times
- All systems include certified engineering by professional engineers licensed in the state of the project
- High level of factory pre-assembly
- Fully adjustable for a perfectly straight installation
- Fully integrated grounding and bonding (ETL listed)
- 20-year standard warranty

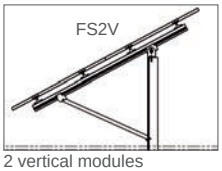
Ground Mount FS System

Few others can offer the engineering expertise, experience, and overall material optimization that Schletter puts behind its products everyday. Built to install quickly and affordably, the FS System is ideally suited for mid to large-scale photovoltaic installations using any kind of module on the market.

Each post that makes up the FS System is hot-dipped galvanized using ASTM standard A123 grade 75, with a galvanized coating of 55 – 75 µm. This is several times thicker than the industry standard. This thickness significantly extends the life of the steel and can aid in fighting the effects of corrosive soils. Adding to this robust process is a scientifically optimized post design which offers maximum soil anchoring strength, surpassing I-beams or round poles.

The module bearing portion of the FS System arrives partially pre-assembled for quick installation. Installers simply unfold the head-assembly, place it on the foundation post, and secure with the included hardware.

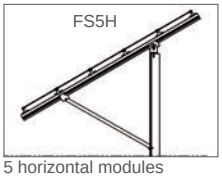
Delivery schedules can be arranged in order to have the necessary material delivered continuously as installation progresses, or deliver all material in a single batch.



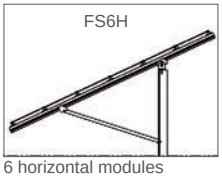
2 vertical modules

3 horizontal modules

4 horizontal modules



5 horizontal modules



6 horizontal modules


Lightning protection


Cable duct

Individual Extensions
Cable Management Options

Cable Management

Unsightly cables can make an otherwise attractive photovoltaic array seem poorly assembled and less likely to garnish repeat business. Be sure to ask about our simple and affordable cable clips on your next order. We can offer:

- Cable trays
- Cable clips for rails
- Cable clips for binders
- Conduit clamps for posts

SecuFix and SecuFix2

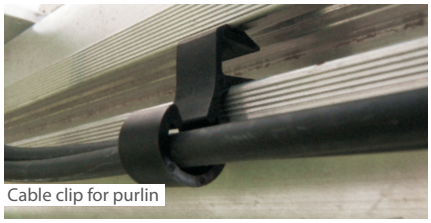
Schletter offers two anti-theft devices which provide a good deterrent to module theft.

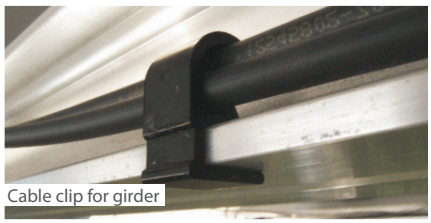
- Can be installed at any time during or after array assembly
- Requires power tools to break — no special drivers that can be bought or duplicated
- Low cost

For ordinary socket head or Torx screws, the **SecuFix** uses a stainless steel ball bearing with a diameter matching the drive socket of the bolt (i.e. Schletter's M8 or M10 screws). After all components of the PV installation is complete, ball bearings are driven into the drive socket of each bolt, rendering them impossible to remove without power tools.

SecuFix2 is an ideal compliment to SecuFix as it adds another level of difficulty to module removal. The SecuFix2 secures the first module of a row in place using an underside bracket.

Where module theft is a concern, SecuFix and SecuFix2, when used in combination, offer the most secure option in the industry.

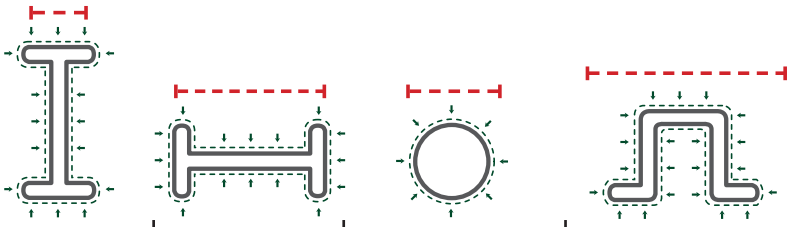

Cable clip for purlin


Cable clip for girder


Pipe clamp for foundation


SecuFix

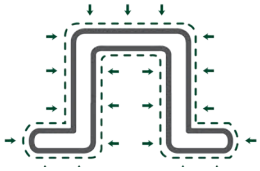
Important Characteristics
Comparison of Pile-Driven Post Profiles



Effective soil anchoring in load direction - - - - - - -

Effective contact surface for soil friction - - - - - - - - - -

Performance Property	Steel Post	Steel Post 90º	Round Tube (screw foundations)	Roll-formed, Load Bearing Steel Post
Bending stiffness x-direction (main direction of loading in installation	+	–	o	++
Effective contact surface for soil friction (determines the maximum tensile force in the soil and the most economic system size)	+	+	o	++
Effective conterforce of the soil anchoring (determines the maximum admissible moment of load and thus the most economical system size)	–	+	o	++
Uninterrupted profile without interface	++	++	–	++



Load-Bearing Profile, Roll-Formed
Developed by Schletter GmbH, safe and economical.

- High bending stiffness, economic material utilization
- Regarding soil friction, both inner and outer sides are relevant
- Reliable soil anchoring — even in cases of problematic soil conditions
- Avoidance of interfaces (welding joints, contact points, and different material combinations)

Comparison: aluminum and steel girders

Prices of aluminum and steel change independently of each other, making cost comparison a moving target. Generally speaking, however, aluminum is of higher value (no corrosion, stable value, etc.), and can be somewhat more expensive.

Structures made of hot-dip galvanized steel are of high value, but are also as expensive as aluminum in most cases. For hot-dip galvanizing, the steel posts must have a minimum wall thickness, because otherwise they will deform in the hot-dip galvanizing process.

Thus, structures are often built using thin, rolled profiles. Those are only electrolytically galvanized (limited durability in the exterior area) and sometimes even only strip-galvanized (thus, they have bare cutting edges).

Summary

Selecting the best post shape is a critical component in the design of a safe and efficient soil anchoring system.

When compared to the other common post shapes available, Schletter's proprietary hat-channel design is superior. It offers the greatest bearing capacity, longest life span in harsh corrosive soils, and best dollar value.

Important Characteristics
Comparison of Load-Bearing Rail Shapes

Extruded Aluminum Rails
The Schletter Advantage

- Highly corrosion resistant without additional treatment
- High scrap value for end-of-life recycling
- Exact structural designs possible through extrusion process
- Closed cross sections for greatest strength
- Variety of extrusion variations available to maximize material efficiency
- Lightweight for easy handling on-site

Rolled Steel Rail, Thick Wall

- Must be galvanized for corrosion protection
- Minimal recycling value
- Limited shapes available
- Closed cross-sections impossible to produce
- Limited number of designs lead to inefficient use of material
- Very heavy; requires power equipment to lift

Rolled Steel Rail, Thin Wall

- Cannot be galvanized, paint needed for corrosion prevention
- Minimal recycling value
- Limited shapes available
- Closed cross-sections impossible to produce
- Limited number of designs lead to inefficient use of material
- Heavy; requires more manpower to maneuver on site

The characteristics of the module bearing rails determine the economic efficiency of the complete load-bearing system. Optimum material utilization and adaption of the rail shape to the application are of utmost importance.

Exclusively from Schletter: North America's first GPS-guided, pile-driving ram.

A completely integrated concept of site measuring and driverless machine operation with straight, to-the-point positioning allows for the most efficient installation.

GAYK Ram
Hydraulic Pile-Driving Machine

Key Advantages

- Finely-tuned, intuitive controls
- Two boom lengths available, 13 or 18 feet for powerful ramming
- Tracked system with live ring and rubber tracks for maximum utility and minimum ground disturbance
- Exceptionally quiet engine for minimal environmental impact
- Operation by walking alongside the machine
- Engineered for easy maintenance
- Auto-leveling systems available
- GPS option available
- Drilling and customized heads available

Versatility

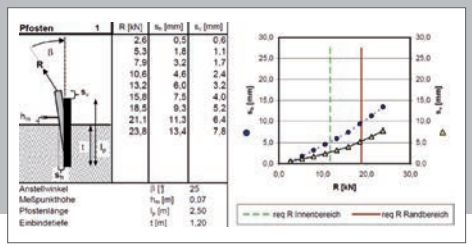
The GYAK™ hydraulic ram makes installation fast and accurate in a variety of terrain conditions; even difficult gravel or loose stones, and on slopes (north-south) with up to 20 degree inclination.

FS System and the GAYK — An Unbeatable Combination

When installing large scale PV fields, the combination of the GAYK ram and the FS System's hot-dipped galvanized foundation posts give the assurance that the installation is secure and on schedule. Per-post installation times measured in fractions of a minute allow significant savings in time and money.

Schletter is the exclusive distributor of the GAYK in North and South America.

FS System™
Geological Analysis



In-house Geotechnical Team

Schletter offers geological analysis with an in-house team of geotechnicians. When using the steel posts that make up the FS System, geological testing of the soil to determine the necessary post embedment depth is required. Based on the testing results, the appropriate post length and any potential corrosion-resistance measures are determined. When on-site, Schletter geotechnicians conduct:

- Vertical pull-out load testing
- Lateral load testing
- Soil type analysis
- Sampling for laboratory testing of corrosion potential

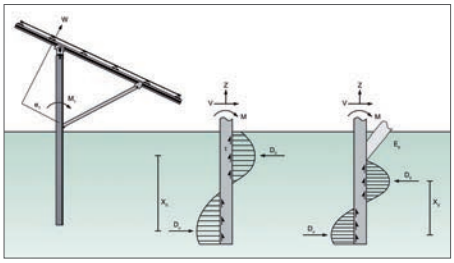
Evaluation

Schletter's Geotechnical Services provide a comprehensive report of the project site which may include (depending on site requirements):

- Description of site conditions
- Visual laboratory classification of selected soil samples
- Description of subsurface soil conditions
- Vertical pull-out capacity test results
- Lateral load capacity test results
- Assessment of corrosion potential

Mechanics of Vertical Pull-out Tests

Wind tests have shown that wind forces do not follow constant paths or act in strictly vertical or horizontal directions. Instead, wind force on panels combines vertical and horizontal components to create a net force acting perpendicular to the face of the panel. By pull-testing posts in both vertical and horizontal directions, Schletter can accurately model how posts on any given site will react to wind forces. This allows for optimum embedment depth and material use.



FS System™
Maximum Stability, Minimum Material Use

Cross Beams

The cross rail, also known as the module mounting rail, is designed according to profile geometry to match the natural forces created in a PV mounting system. Schletter has two decades of experience developing rail profiles with exact strength characteristics.

All Schletter rails have integrated channels for easy module clamp installation for both standard framed and frameless thin-film modules.

Module Clamps

Regardless of the module type, Schletter has several options available for safe, secure module clamping. All module clamps are tested for durability and are ETL listed as grounding and bonding components.

Framed Modules

Framed modules, mounted in either portrait or landscape orientation, are securely held in place by Schletter's proprietary Rapid^{2+}™ clamp. Pre-assembled for fast installation and featuring integrated grounding, the Rapid^{2+} clamp can save valuable time during installation.

When ordering, specify module orientation and thickness for the right Rapid^{2+} clamp. The Rapid^{2+} clamps are ETL Listed to UL 467, CAN/CSA-C22.2 No. 41 for module grounding requirements.

Thin-Film Frameless Modules

Fragile thin-film modules are handled with care using Schletter's Eco Series™ module clamps. Supportive rubber pads hold the modules in place without potential for damage — even in high wind zones.

Hackettstown, New Jersey

Power:	2 MW
Rack configuration:	2 vertical
Modules:	First Solar
Customer:	Juwi Solar

FS System™
Reference Examples

Upper Sankusky, Ohio

Power:	12 MW
Rack configuration:	2 vertical
Modules	First Solar
Customer:	Juwi Solar

Paulsboro, New Jersey

Power:	6 MW
Rack configuration:	2 vertical
Modules:	Yingli
Customer:	Americal Capital Energy

Hanover, Pennsylvania

Power:	3 MW
Rack configuration:	2 vertical
Modules:	Schott
Customer:	KPS Contracting / Kline Process Systems

Parlier, California

Power:	1.3 MW
Rack configuration:	2 vertical
Modules:	Can Solar
Customer:	Cenergy

An attractive system installed quickly, efficiently, and with the durability to last.

Egg Harbor Township, New Jersey

Power:	2.5 MW
Rack configuration:	2 vertical
Modules:	Yingli
Customer:	DCO Energy

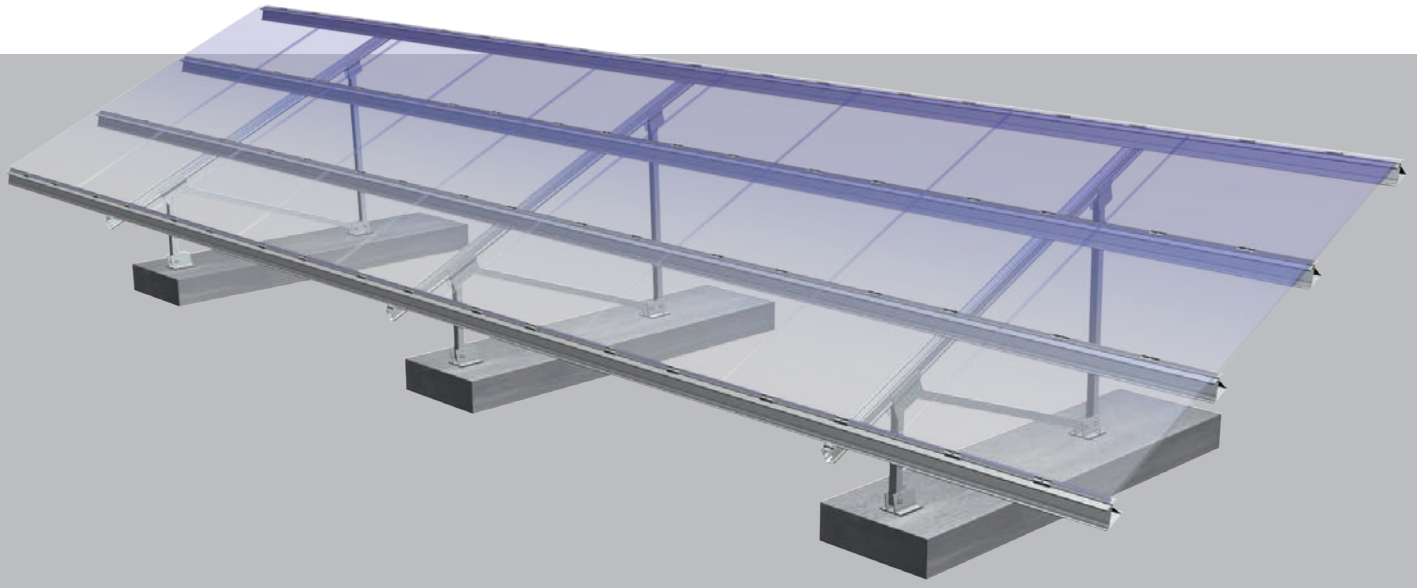
Bolder, Colorado

Power:	2 MW
Rack configuration:	2 vertical
Modules:	Solon
Customer:	Solon

Dayton, Ohio

Power:	750 kW
Rack configuration:	2 vertical
Modules:	Sharp
Customer:	Inovateus

A production capacity of 100 MW/month and state-of-the-art manufacturing equipment enables Schletter to deliver on time — every time.



PvMax™
Concrete Ballasted Ground Mount System

Key Advantages

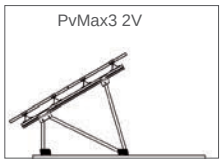
- Concrete ballast ground mount system
- Ideal for landfill sites, rocky terrain, and residential locations
- Complete structural analysis provided, including sizing of concrete ballast
- Short mounting time with partially preassembled support frames and no heavy machinery required
- Proprietary S-Series rail allows for long spans, reducing the required number of support frames and concrete foundations
- Corrosion resistant, all-aluminum construction
- Compatible with ground screws as alternative foundation type
- 20-year durability warranty

Standard Option or Individual Solutions Available

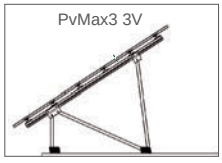
The PvMax is a ballasted ground mount system which offers an attractive design with long-lasting and durable system components. The system offers mounting solutions in areas where pier driven posts are not possible, as is the case in most residential locations, on landfill sites or very rocky terrain. The PvMax also works with ground mount screws as an alternative foundation to concrete footings.

The core strength of the PvMax lies in the uniquely designed S-Series rail. This proprietary rail enables long spans, resulting in a lower number of required supports, thereby reducing the number of concrete foundations. Made entirely of aluminum, the PvMax is easily installed requiring no heavy machinery and able to resist decades of exposure without corrosion.

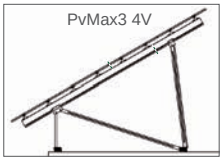
Examples of Mounting Variations



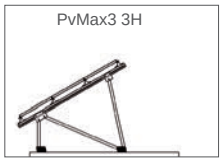
2 vertical modules



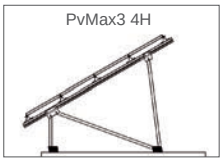
3 vertical modules



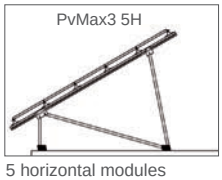
4 vertical modules



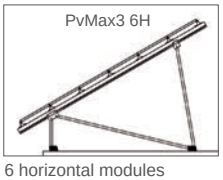
3 horizontal modules



4 horizontal modules



5 horizontal modules



6 horizontal modules

PvMini™
Concrete Ballasted Ground Mount System

Key Advantages

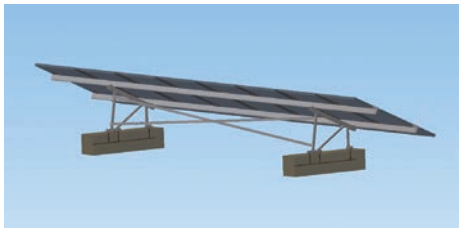
- Concrete ballast ground mount system
- Designed for mid- to large-scale PV applications including closed landfills and rocky terrain
- Complete structural analysis provided, including sizing of concrete ballast
- Light-weight and durable system with quick installation
- Proprietary ProfiPlus XT™ rail enables longer spans, reducing the number of concrete foundations needed
- Corrosion resistant, all-aluminum construction
- 20-year durability warranty

Cost Effective, Light-Weight Ground Mount Solution

Based on the proven PvMax™, the PvMini™ is a non-penetrating ground mount system designed for one portrait or two landscape module configurations. This solution is ideal for mid- to large-scale applications, including closed landfills and areas with rocky terrain.

The PvMini™utilizes the proprietary ProfiPlus XT rails which enable longer spans and allow for more efficient use of other system components, thereby reducing the number of concrete foundations needed. Light-weight and quick to install, the system is an easy and cost-effective way to transform landfills into clean energy generators.

Landscape Configuration



Built by groSolar.

Logan Township, New Jersey

Power:	1.5 MW
Rack configuration:	2 vertical
Modules:	Astronergy
Customer:	groSolar

PvMax™
Reference Examples

Harrisburg, Pennsylvania

Power:	868 KW
Rack configuration:	2 vertical
Modules	Schott
Customer:	KPS Contracting / Kline Process Systems

Dinuba, California

Power:	1.1 MW
Rack configuration:	2 vertical
Modules:	SolarWorld
Customer:	Chevron Energy Solutions

Perth, Ontario

Power:	10 KW
Rack configuration:	2 vertical
Modules:	Day4 Energy
Customer:	Blaze Power

FS System™ and PvMax™
Technical Data

Material

- Fastening elements, bolts: Stainless steel 304 and 316
- Rails: Aluminum alloy 6105 T5
- High life-expectancy, high residual value, no disposal costs
- Foundation posts (FS System): S380 steel, hot-dip galvanized

Logistics

- Quick and simple mounting
- Maximum level of prefabrication prior to shipment

Delivery and Services

- Soil survey and soil structural analysis (FS System)
- Individual structural analysis of site based on project characteristics
- Complete construction drawings and permitting package

Structural Calculations

- 100% code compliant designs for any locality
- Third-party structural PE stamped drawings and calculations available for most states
- Geotechnical reporting for driven post foundations
- Individual system design calculations based on site-specific load values and layout
- Design loads according to IBC 2006 or 2009
- Patented rail geometries with optimum material utilization

Foundation Options

- Pile-driven posts (FS System)
- Ballasted concrete (PvMax)
- Ground screws (PvMax)

Accessories

- Cable trays for clean installation
- Cable clips for easy wire management
- Grounding-integrated module clamps
- Anti-theft device (SecuFix)

System Grounding

- The FS System is ETL Certified to UL Subject 2703. A guide to proper grounding procedures of the system is available on the Schletter website.
- The Rapid^{2+} Clamp allows for integrated grounding

Warranty

- 20-year durability warranty
- Optional: Extension of durability warranty to 20 – 25 years. Ask a Schletter representative for more details.

FS Uno™ and FS Duo™
Affordable All Steel Options

Key Advantages

- 100% galvanized steel mounting system going beyond industry standard in steel fabrication
- Mounting superstructure made of galvanized steel up to G165 specifications
- High level of prefabrication for faster field installations
- Increased distances between foundation supports further aides in cost reduction
- Driven galvanized steel posts with durable zinc coating for extended product longevity
- Single post (FS Uno) and double post (FS Duo) options

Based on the proven **FS System™**, installed in the world's largest PV power plants, Schletter introduces an all steel option for ground mount photovoltaic systems, the **FS Uno and FS Duo**.

FS Uno Single Post System
Through extensive analysis and design, Schletter engineers developed a single post system which can install in the traditional south facing orientation or with a unique east-west orientation for difficult layout situations.

Mounting Options

FS Uno (South Facing)

FS Uno-100 (East-West Facing)

FS Duo Double Post System
Excellent for maximizing module installations, the Duo is the choice for reducing material costs for large-scale installations. The Duo uses a two post design extending the mountable area on the system.

Mounting Options

FS Duo with Strut

FS Duo without Strut

Regardless of design specifications, the FS Uno/Duo product line uses high quality steel to ensure product longevity.

Technical Data

All of Schletter's solar mounting systems are built to withstand years of relentless environmental conditions. In order to meet such expectations, the FS Uno and Duo product lines use only high quality galvanized steel with no exposed edges. The result is a steel solar mounting system designed to outlast the competition.

FS Uno and Duo Material

- Fastening elements, bolts: Stainless steel, grade 304
- Rails: Steel, hot-dip galvanized, up to G165 coating
- Pile-driven foundations (posts): Steel, hot-dip galvanized with G235 coating

Logistics

- Delivery of single components as well as a maximum level of pre-assembly are possible.
- Transport to construction site for efficient installation

Construction

- See mounting instruction manual at www.schletter.us/brochures.html

Delivery and Services

- Geotechnical investigation and structural analysis
- Structural analysis of the individual rack based on local wind, snow and seismic data

Structural Analysis

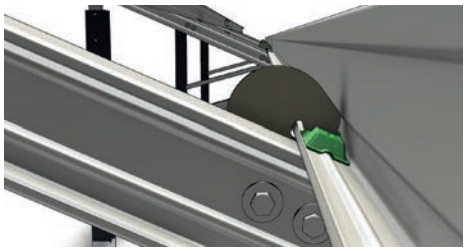
- Structural analysis based on a geotechnical investigation for local terrain condition
- Individual systems analysis based on local load values
- Design loads according to IBC 2006, 2009, and ASCE 7-05
- Highly efficient, material-saving profile geometries
- Verification of all construction components based on FEM-calculation

System Grounding

- The FS Uno and Uno-100 is ETL Certified to UL Subject 2703

Warranty

- 5-year durability warranty



Park@Sol™
Use Real Estate Wisely

Key Advantages

- Quick, easy to install while remaining cost competitive
- Tailored for most module types, orientations, and inclinations
- Customized foundation options
- Support from Schletter engineers and geotechnicans for every step of project planning
- Complete structural analysis
- Durable and corrosion-free aluminum construction
- Complete documentation and system drawings
- Individualized design and color options on request
- 20-year durability warranty*

Overview

Increasing fuel costs, compulsory environmental certifications and desire for an environmental friendly image are the new realities of business. Consequently, solar PV plants on company roofs are in demand. But in many cases, the roof surface areas are too small or weak to support a PV system. Or, in some cases, roof and ground mounted systems are seen as too costly or complex a project for the business or home owner to undertake.

Solar carports offer simplified and economic alternatives in answer to such concerns, while offering a multipurpose structure.

These systems have a well established history in Europe and North America, on a scale of several hundred megawatts (MW) of installed PV systems for both commercial and residential applications.

Park@Sol™
Foundation Options

Concrete Foundation

- Concrete ground collar for collision protection
- Unobstructed car door opening
- Central foundation

B1 1-row vehicle arrangement
(max. depth 6.0 m)

B2 2-row vehicle arrangement
(max. depth 13.5 m)

B3 2-row vehicle arrangement
(max. depth 13.5 m)
Ideal for structures running N/S

Cast-in-place concrete
The economic solution for small carport plants

Concrete Pillars
For residential applications requiring less excavation

Also Compatible with:

Micro pile foundations—Significantly reduce concrete, installation time, and labor costs.

Fort Collins, Colorado

Rack configuration:	**CP 4V x 64 B1 10°**
Power:	17.92 kWp
Dimensions:	40 m x 4.5 m
Customer:	Wirsol

Park@Sol™
Reference examples

CLK

Rack configuration:	**CP 20H x 10 B2 8°**
Power:	30 kW
Dimensions:	12.1 m x 12.80 m
Postal code:	97359 Schwarzach
Customer:	AWI Solar

Burger King Waghäusel

Different rack configurations	
Power:	52.3 kWp
Dimensions:	Various Dimensions
Postal code:	68753 Langgöns
Customer:	Wirsol

Wörrstadt

Rack configuration:	**CP 20H x 35 B2 8°**
Power:	100 kWp
Dimensions:	42 m x 13 m
Postal code:	55286 Wörrstadt
Customer:	Juwi BV Wörrstadt

Tucson, Arizona

Rack configuration:	**CP 11H x 28 B2 20°**
Power:	69.3 kWp
Dimensions:	46.5 m x 10.9 m
Customer:	SOLON USA

Seeg

Rack configuration:	**CP 8H x 13 B2 15°**
Power:	37.44 kWp
Dimensions:	41 m x 7 m
Postal code:	87637 Seeg
Customer:	Elektro Uhlemayr BV Seeg

Langgöns

Different rack configurations	
Power:	52.8 kWp
Dimensions:	Various Sizes
Postal code:	35428 Langgöns
Customer:	Gecko Logic BV Langgöns

Bergheim

Rack configuration:	**CP 7H X 18 B1 10° (negative)**
Power:	122.5 kWp
Dimensions:	29 m x 6 m
Postal code:	50126 Bergheim

Park@Sol™
Technical data

Material

- Hardware, bolts: Quality steel 1.4301;
- Profiles: Aluminum (EN AW 6063, EN AW 6005)

Logistics

- Quick and simple mounting
- Maximum level of pre-fabrication
- Direct delivery to construction site

Accessories

- Cable channels, cable ducts
- Lightning protection system (FS Protect System)
- Module clamps with integrated grounding.

Delivery and Services

- Project planning assistance
- Complete system drawings
- Production and delivery of the complete carport system

Optional

- Vibration simulation of wind loads on request
- Earth quake simulation, optional

Construction

- For framed and unframed modules
- Minimum sealing of the soil surface
- Optional waterproof substructure

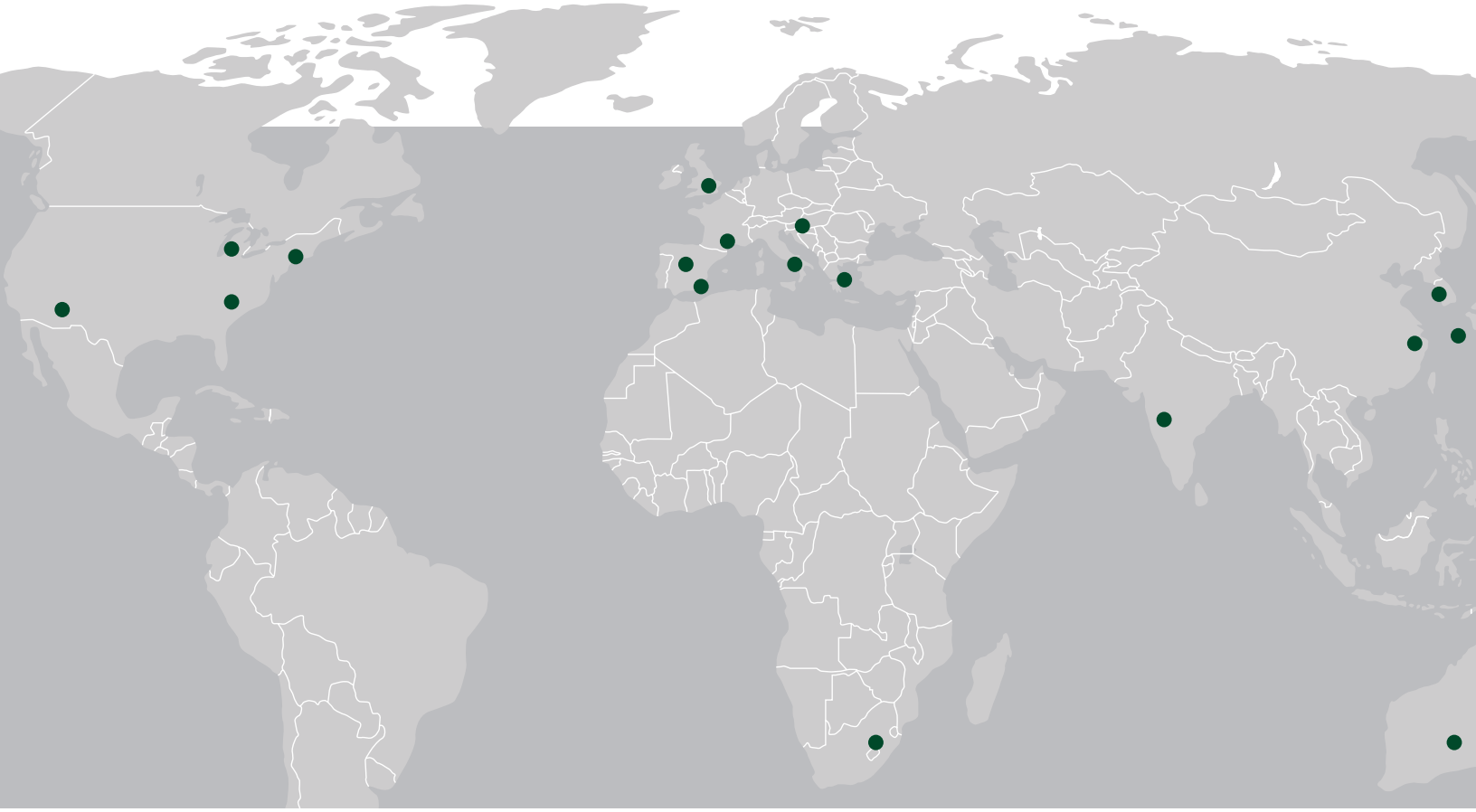
Lightning and Grounding

- Extension with outward lightning protection system is possible
- Components for grounding system
- Potential equillization certified according to VDE 0100, part 712

Warranty and Certifications

- 20-year warranty on all Schletter Park@Sol Systems

SCHLETTER



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