Schletter Solar Mounting Systems

System overview
Roof and facade
At the request of the customer, all member companies of the Schletter group can purchase goods manufactured in the Schletter factories in Germany, China (Shanghai) and the USA. All three of these factories have been certified according to ISO 9001. Further details about the certifications are available on the respective Schletter websites.
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General information

The Schletter PV mounting system is a unit assembly system with universally usable high-quality components (aluminum/high-grade steel). It allows the installer to mount any module in practically any mounting situation. The system, already comprising proven high-quality components, is subject to continuous improvement through the enhancement of existing elements and the development of new products.

Besides modularity and the selection of high-quality materials, we especially focus on supporting the installer with instructions, calculation programs, etc., which save valuable time and help to avoid mistakes.

According to your requirements, you will receive single components or completely compiled mounting kits according to the individual module arrangement.

Complete system structural analyses in the form of charts and programs are available for the whole system and giving mounting guidelines. The system structural analysis includes the main components (roof hooks, crossbeams, etc.) as well as special fastening elements and is updated constantly.

State-of-the-art production facilities safeguard efficient manufacturing of standard components as well as quick and flexible realization of special constructions at the request of the customer.

*The terms of guarantee can be referenced at www.schletter.de/AGB_en
System structure

Usually, two horizontal cross beam profiles carry one module row. The cross beams are connected to the substructure respectively to the roof cladding by means of fastening elements. The modules are fastened to the cross beams by means of middle and end clamps. Usually, the modules are mounted vertically. Accessories are available for the most different kinds of applications.

Roof-parallel systems

The system is mounted parallel to the roof.

Flat roof systems

On flat roof, the inclination angle of the modules can be changed to increase solar yields.
Roof-parallel systems

Fastening elements

A wide range of roof hooks and special fastening elements and fastening systems allows mounting on almost any roof construction. Accordant charts of the system structural analysis indicate the number of fastening elements that have to be installed in certain roof edge conditions.

**Roof hooks**

Roof hooks are available for most tile and pantile designs. *Rapid2+* has set the benchmark and can be fastened easily to our rails (profiles). The economically priced welded hook designs are available in the most different thicknesses starting from EcoG up to VaMaX (reinforced design for especially heavy snow loads). All hooks are made of high-grade steel 1.4301.

ıldığı Component overview: Roof hooks

*Alu-Tile* be combined with many tile designs and replaces the complete tile in each case, thus eliminating the need for cutting tiles to shape. Due to its solid design, this roof hook can transfer really heavy loads into the roof substructure.

ciągę Component overview: Alu-Tile product sheet

**Special roof hooks** for many types of roof coverings complete the roof hook standard program. There are hooks for slate, Tegalit, Biberschwanz (plain tile) and many other designs (sometimes with special sheet metal substitute tiles).

ciągę Component overview: Biberschwanz (plain tile) product sheet
ciągę Component overview: Creaton Domino Product sheet
ciągę Component overview: PP (purlin pan) product sheet
and others ...
Roof hook Mönch/Nonne (Spanish tile) - Southern Italy, Spain and Southern France are the home of the so called Spanish tile. Laid onto the most different kinds of substructures (wood, bricks or concrete), these tiles make the use of fastening elements difficult. The Mönch-Nonne system for Spanish tile roofs offers special roof hooks for this problem.

Iso07 - For roofs with on-roof insulation, conventional roof hook designs can be combined with longer screws and distance tubes if required.

The extra angle bracket Eco90 allows structurally verified mounting with lateral screwing to glued laminated girders.

Roof hook Rapid 2L kit - With special roof systems that are mainly used in Benelux countries, often self-supporting roof elements are used instead of rafters and purlins. They are confined by timber planks at the sides. The new system solves this problem by diverting the forces into the vertical wooden rafters by means of a specifically designed mounting kit.

The Rapid²+ Slate roof hook has been developed especially for the fastening of solar plants on roofs with shingle covering on a batten substructure and narrow roof rafters. The cut-out that is required for the fastening of the roof hook is covered with the covering plate (Slate). The sealing piece between the roof hook and the shingle serves as a protection from water.
Roof-parallel systems

Fastening element FixW-1876
The benefit of this fastener is that it rests on two corrugation tops, facilitating optimum load distribution of snow loads on the corrugated profile. Besides, the corrugated profile is not subject to stress by wind suction forces as these loads are transmitted directly into the substructure through the anchoring. The fasteners can be deployed both on wood and steel substructures.

FixW-1876 product sheet

Standing seam clamps
With sheet metal roofs with standing seams, so called standing seam clamps are used. They are clamped onto the standing seams and bear the cross beam profile. The structural safety of the roof cladding has to be considered, the sheet metal fastening must be able to withstand the arising suction forces! In cooperation with the company Rheinzink, we have developed the standing seam clamp 504 that meets the special requirements of titanium zinc sheet metal roofs. No matter if a roof is made by KalZip or BEMO, Zambelli or Fischer Klip-Tec, we offer clamps for most sheet metal roofing types. And if your sheet metal roof is not on the list, we will possibly be able to produce a customized clamp design on short notice.

Component overview: Standing seam clamps
Fastening of solar plants on trapezoidal sheet metal roofs

There are very quick and cost-efficient mounting options for trapezoidal sheet metal roofs. With sandwich elements, special structural verifications are required in many cases. Please just contact us!

Safety first! All our fastening systems for trapezoidal sheet metal roofs have one thing in common: The sheet metal screws are always fastened to the legs of the trapezium and never to the crowns. Like this, the connection will also be safe and stable after many years, even if there are thermal elongations of the sheet metal roof.

Fix2000 is proven fastening element for trapezoidal sheet metal roofs and sandwich elements. The Fix2000 clamp is custom-made for the individual trapezoidal sheet metal form and is mounted with 4 self-drilling screws. Can be delivered with a readily glued-in rubber.

KlickTop design: Even quicker mounting from above
- Fix2000/Fix2000 KlickTop product sheet
- Fix2000 check list of dimensions

The SingleFix-Vario system is made up of a combination of Schletter standard rails with SingleFix-V single fastening elements and is intended for vertical module mounting.
- SingleFix-Vario product sheet

Schletter SingleFix-V is a safe fastening system for vertical module mounting with minimized need for material. The modules can be fastened directly to the rail (profile) pieces using Schletter module clamps.
- SingleFix-V product sheet

Schletter SingleFix-HU is a safe fastening option for vertical module mounting, only requiring minimal use of materials. You can also use this system to complete module fields with individual horizontally mounted modules.
- SingleFix-HU product sheet
ClampFit-H
The ClampFit-H fastening system allows simple and quick mounting on trapezoidal sheet metal roofs. The module clamp is already integrated in the fastener. Optimal distribution of forces is achieved by fastening at the side of the trapezoidal sheet metal. This avoids an overload of forces at single points, even on very thin sheeting. The danger of screws loosening due to thermal expansion and load change is thus excluded.

FixPlan
The new fastening system FixPlan serves for the fastening of solar plants on flat sheet metal roofs of different kinds or also on standing seam roofs. This system grants the advantages of a safe anchoring in the substructure and tolerance regarding thermal length changes of the sheet metal roofing.

Fastening kit for corrugated roofs / WelldachPlus
With eternit roofings, trapezoidal sheet metal roofings as well as with slate roofings, usually the fastening kit for corrugated roofs is used. A special hanger bolt is screwed into the substructure through the roof cladding and bears the cross beam by means of an adapter plate. An UV-resistant EPDM gasket with sealing cone and support collar is counter-screwed with a third mounting nut and safely seals the drilling. Please consider that it can be reasonable on purlin roofs to use only vertical rails and to place the modules horizontally on them.
Fastening system FixT / FixE

With the Schletter fastening system FixT, the load is transferred from the PV-bearing structure into the substructure by means of distance tubes in case of steel purlins, respectively with hanger bolts in case of wooden purlins. The system is applicable on single-layer trapezoidal sheet metal roofs and also on sandwich roofs. Special aluminium supporting elements grant an optimum connection to almost any roof covering.

The Schletter fastening system FixE has been developed especially for eternit coverings on steel or sheet metal purlins. The sealing is carried out by means of a special EPDM form piece which perfectly adapts to the shape of the eternit plate and thereby grants optimum tightness. With wooden purlins, also alternative fastenings with normal hanger bolts respectively fastening combinations are possible.

- FixT/FixE product sheet
- FixT/FixE check list
- CompactVario product sheet
By now, the Schletter profile series has become a standard for solar fastening systems of any kind. The optimized shaping combines efficient material utilization and well-proven fastening technology for quick and swift assembly.

The cross beam profiles Eco05, SoloLight, Solo05 and Profi05 are the standard components of the different fastening systems. A variety of other profile forms complete the system to a complete unit assembly system for almost all cases of application. The profiles DN0 to DN3 are suitable as continuous beams for substructures and load distribution beams.

Dimensioning programs for each profile design help to choose the right profiles and to install them professionally. Accurate connectors allow project-specific length adaptation. With big order quantities, we can also produce plastic end caps with your company logo on them.

Component overview: Rail (profile) series
Module clamps

Middle and end clamps made of aluminium for framed modules are available for virtually all framed module types. Schletter still focuses on the stable design that distributes the clamping pressure evenly over the module frame which avoids tensions in the glass!

The Rapid module clamping system²+ quick and convenient mounting with pre-assembled clamps. Snap it in - tighten it - that’s it!

With KlickIn, a square nut is inserted into the KlickIn channel of the module-bearing rail using a KlickIn click component and is bolted to the clamp.

For laminated modules, the design series LaminatEco is used for determined module thicknesses, the design series LaminatProfi is universally applicable for different module thicknesses. With vertical mounting, VA safety hooks are recommended to impede any sliding-off of the modules. The LaminatGS series has been optimized especially for scaled mounting.

- Component overview: Module clamps
- Potential equalization product sheet
- Laminate module mounting - general information
Roof-parallel systems

Mounting options

Useful information about different mounting options on pitched roofs.

**Single-layered rail arrangement**
In most cases it is recommendable to mount the rails vertically to the substructure.

[Schletter Standard Product sheet](#)

**Linear mounting (LaQ07)**
Especially for horizontal mounting, only possible if the cross beams can be positioned as desired (cross rail, Fix2000, standing seam clamp, etc.).

[LaQ07 product sheet](#)
Cross rail systems
Cross rail mounting is highly recommendable if the substructure does not feature suitable fastening points.

GridNorm product sheet

Cross connector Rapid / KlickTop

GridNorm product sheet

Component overview

Cross rail 1 - rafter

Cross rail 1 - purlin

Cross rail 2 - rafter

Cross rail 2 - purlin
Roof-parallel systems

Kit systemSL
We will be happy to assist you in choosing a mounting kit for your specific requirements and provide you suitable mounting kits for your solar plants, standardized fastening rails and rail pieces plus the accordant connectors and suitable accessories.

☞ KitsystemSL product sheet

Schletter BiPv 2-11 roof-integrated system
The real roof integrated system especially for unframed modules. A fastening system that is reliable and easy to assemble at the same time.

☞ BiPv 2-11 product sheet
In-roof system Plandach5
Schletter Plandach5 combines the benefits and the modularity of on-roof systems with the characteristics you expect from really good in-roof systems! A tight industrial roofing membrane is installed with this system.

Roof-In lay-in system
This visually attractive system can be combined with many types of fasteners. Many types of solar modules are approved for lay-in mounting.

FlatGrid
The roof-parallel system with superimposed loads (without roof perforations)

* see the chapter about flat roof systems, page 19
* Plandach5 product sheet
* RoofIn product sheet
* FlatGrid product sheet
Flat roof systems

Flat roof systems - general information

During the project planning of an elevation system, the professional approach is to choose the suitable systems and components of a wide variety of components of a modular system considering the respective situation and the current guidelines.

This document informs about different kinds of pitched roof systems, but also about system components that can also be used in other systems (module clamping, fastening elements, etc.).

Generally, the following two cases have to be distinguished:
   a) Fastening systems with
      roof penetration and
   b) Systems with superimposed loads

Loading solutions should not be chosen or offered without previous thorough examinations, because an insufficient load bearing capacity of the roof can possibly rule out this option in the first place! Particularly the load calculation according to the new guidelines has to be considered carefully, because very high loads for fastening could be required that might exceed the load-carrying capacity of the roof. Schletter offers complex calculation software according to the latest standards! By choosing a smart fastening structure, the required superimposed loads can possibly be reduced considerably. We offer professional advice on the subject. Please also pay regard to our general information for the dimensioning of flat roof fastenings and loadings (superimposed loads):

Flat roof mounting - general information
FixGrid
FixGrid is a system optimized regarding both material and tool requirements, the solar modules are arranged in closed rows with a fixed inclination angle of about 6 or 13 degrees. Only minimal superimposed loads are required. The components are interconnected using the AluGrid Klick system. The superimposed load can be put in load trays (optional) or can be put onto the base profile.
🔗 FixGrid product sheet

AluGrid
The tilted system with continuous beam and a permanent inclination angle of 15° or alternatively 10° that only requires minimal superimposed loads. The components are interconnected using the AluGrid Klick system. Modules are mounted and fastened to the substructure using screwless (spring) clamps.
🔗 AluGrid brochure

CompactVario
The versatile tilted system with continuous beam.
🔗 see also: Combined support designs, page 21
🔗 CompactVario product sheet

FlatGrid
FlatGrid is a cost-efficient system for slightly inclined flat roofs. It has been designed for the fastening solar modules parallel to the roof without roof perforations. The opposing parts of the solar plants are connected over the ridge which impedes sliding-off.
🔗 FlatGrid product sheet

Systems with superimposed loads
Flat roof systems

Fastening systems
A wide range of fastening elements and fastening systems allows mounting on almost any roof structure. You can find an overview on page 6 and following.

FixZ-7 / FixZ15
Roof-parallel module mounting is not optimal on flat trapezoidal sheet metal roofs with less than 10 degree inclination because of little solar irradiation and insufficient self-cleaning of the modules. The Schletter FixZ-7 and FixZ-15 are cost-efficient fastening solutions with fixed inclination angles of about 7° respectively 15°.
- FixZ-7 product sheet
- FixZ-15 product sheet

CompactDirect
Under certain conditions, it is possible to mount the flat roof support to the substructure of the building by means of suitable fasteners (for example hanger bolt kit).
- CompactDirect product sheet
Combined support designs

Combined support designs offer considerable advantages compared to single supports.
• Row arrangement is independent from the grid of the roof substructure
• Considerably less superimposed load is necessary for loading solutions
• Loads are evenly transferred into the roof structure

**Flat roof mounting - general information**

**CompactVario**
CompactVario is a very flexible elevation system for flat and pitched roofs, especially for bridging big distances between purlins. There is a complete series of double-groove profiles DN0 to DN3 which can be used as distribution beams in north-south direction. Thus, the most economic solution can be compiled for any mounting case respectively for any span length.

Support top parts (consisting of module girder plus rear support) are mounted onto the double-groove profiles using fitting kits.

Due to the favourable geometry of the arrangement, only considerably lower superimposed loads are required for this design than for an arrangement in individual rows.

**CompactVario product sheet**

**CompactGrid**
In many cases, parts of the North-South facing roof substructure are suitable for the mounting of module elevations. In such cases, a fastening similar to CompactVario but with horizontal continuous beams can be used. The system is also reasonable if there are not enough fastening points for supports on the roof or if a better distribution of the fastening points is necessary because of a limited firmness of the roof covering (for example on sheet-metal roofs).

**CompactGrid product sheet**
Membrane roofs of industrial buildings are often made of a substructure with big girder distances (5 to 8 meters) and a relatively soft roof covering. The structural dimensioning of the roofs and also the permissible pressure load onto the insulation is often so little that loading solutions for module fastening are ruled out in the first place.

IsoTop offers suitable solutions for any roof – either consisting of components from the standard system construction kit up to complete special fastening solutions. When drafting an offer for you, we provide individual consulting service for planning the supporting structure in order to find the most economic solution for the respective roof. In general, the structure will be optimized in a way that only a few penetration points are necessary in big distances. These can be welded safely and cost-effectively by a roofer. The system can also be designed with thermal separation for warm roofs.

 IsoTop product sheet
 IsoTop checklist
Flat roof components

Supports

With systems on single supports, mostly one module row is fastened to cross beams which rest on single supports. The individual supports can be fastened to the roof or loaded individually with superimposed loads.

Support series Light - Very light support rails for narrow span widths
Support design Profi - Structurally suitable for wide spans
- Support programm 07 product sheet
- FlexConsole product sheet

FlexXXL support - Support kit with a span of 5.2 m for space-saving arrangement of one-part module racks with high power.
- FlexXXL product sheet

Vegetated roof support - The special vegetated roof support allows a mounting at a distance to the ground, for example on vegetated roofs.
- Vegetated roof product sheet

Loading

SolRack - The gravel that is already on the roof anyway is used as superimposed load for the supports.
- SolRack product sheet

SolTub - Modular design with optimized (reduced) loading (superimposed load)
- SolTub product sheet

Loading kit - 2 aluminium rails (profiles) with special EPDM profile. Loading is possible with concrete border stones or the like
- Loading kit product sheet

SolCube - quick loading, simple filling.
- SolCube product sheet

Windsafe - Additional wind deflector to improve the structural safety with much less loading (superimposed loads) than for conventional structures.
- Windsafe product sheet
Facade systems

The facade fastening represents a special case of module mounting, usually to vertical walls. For solar plants in visible areas, fastening elements with customized surfaces and colour designs (for example anodized or powder coated) can be manufactured.

**EFa Energy Facade parallel**

The EFa Energy Facade by Schletter is a simple, variable and stable solution. The facade consoles are available for three different construction depths which makes them suitable for insulation thicknesses of up to 260 mm.

A rear ventilation of 30 mm is safeguarded and unevenness of the subsurface can be equalized up to 30 mm. The substructure profiles can be mounted both vertically and horizontally, including equalization of mounting tolerances of the console.

- [EFa Energie Facade product sheet](#)

Concerning “overhead glazing”, please by all means pay regard to:
- [Facade mounting - general information](#)

**Facade support**

Facade supports (porch supports) are fastened to vertical walls or facades and bear the cross beam profiles with the module rows.

Concerning “overhead glazing”, please by all means pay regard to:
- [Facade support product sheet](#)
- [Facade mounting - general information](#)
Cable fasteners
Cables routed in a professional manner improve the overall impression of the quality of a solar plant. Cable routing is possible in the Schletter system standard profiles (Profi 05). The module plugs can also be snapped into the cable duct and give the wiring additional hold. A lid can be fitted to the duct if required. An additional retrofit cable duct is also available. The so-called rectangular cable can be used for visually attractive cable guidance. If extended wiring is required, we offer the cable duct system MaxK; a variety of system components including an extendible universal duct is available for this purpose. For cases where the application of a cable duct is too time-consuming or where additional cables are to be fastened, our ProKlips can simply be snapped into the Klick grooves of the profiles.

Lightning protection and potential equalization
The lightning protection clamp can be screwed to the cross beam profiles from below and allows a direct connection to the lightning protection round wire (diameter 8mm or 10mm). Please note that a direct connection between rack and lightning protection system only makes sense if the separation distance cannot be kept. For the earthing of anodized module frames, we recommend our special earthing shims in combination with the usual middle and end clamps. Thus, the module and the rack are integrated into the potential equalization of the overall structure. Moreover, the module can be directly incorporated in the earthing process from above by means of an earthing middle clamp (with earthing pin).

- Information about lightning protection
- Potential equalization product sheet

Component overview: MaxK
Cable clips product sheet
SecuFix/SecuFix2 - anti-theft device

SecuFix is a very simple anti-theft device that can be combined with all systems and can also be retrofitted any time. The socket head screws of the module clamps are simply secured against unauthorized opening by a special high-grade steel ball which is punched into the screw head. We recommend our SecuFix-applicator for mounting.

SecuFix2 is the logical further development of the SecuFix system. Additional "lateral protection" at the ends of module rows substantially increases resistance to theft. SecuFix2 supplements the SecuFix system, providing additional protection to the module clamp connections and can, of course, be combined conveniently with other design concepts (electronic plant surveillance, etc.).

**SecuFix/SecuFix2 product sheet**
Service

Not only the suitable components and systems for the respective fastening requirements, but especially universal planning aids and competent advice are becoming more and more important for professional project planning and dimensioning of solar mounting systems!

**AutoCalculator Easy**
Simple and uncomplicated calculation of solar mounting systems on pitched roofs. The AutoCalculator Easy is a convenient further development of the well-proven auto-calculator. With features like load determination, superimposed load calculation and structural analysis.

» AutoCalculator Easy product sheet

**Schletter Configurator**
In order to create a 2D top view, just virtually arrange the solar modules and the Schletter solar fastening systems of your choice as you wish on the pitched roof as far as this is structurally possible. The Schletter Configurator shows the capacity utilisation of each profile and fastener selected, taking structurally relevant dimensions into account. A piece list of the required components is generated automatically. Structural analysis calculation, calculation of superimposed loads and many other features for an optimized solar plant dimensioning.

» Schletter Configurator product sheet

**Shade calculator**
The shade calculation helps the installer when planning flat roof solar plants. A minimum row distance is recommend according to the plant geometry and can be documented in a clearly arranged sketch. The latest version is available on request or in the download section.

Multilingual and with different country maps.

» Shade calculation (xls)
Delivery Status
With Schletter, fast packing and delivery go without saying! Nevertheless, the possibility to check the delivery status of an order is often helpful to the customer. The delivery status can be checked on the internet at any time and makes inquiries by phone redundant.
 ⇐ http://www.schletter.de/EN/service/delivery-status.html

Sending of delivery notes
If your email address is registered in our system, you will receive an e-mail simultaneously to the handing-over of your goods to the shipping company.

Assembly instructions
The mounting instructions are permanently being completed and contain important information for the installer. A clearly arranged and well illustrated description gives a quick overview even to inexperienced users.
The general instructions for special systems are completed by system-related instructions and application information.
 ⇐ Mounting and project planning
 ⇐ System-specific mounting
Sample case, module rack and trade fair display stand
The sample case contains samples of the most important standard components and gives an impression of the products and the modularity of the system.
☞ Sample case product sheet

Trade fair display stand (RollUps) for several systems.
For your professional trade fair presentation.
☞ Component overview: Auxiliary equipment / accessories

The module rack for trade fairs and other presentational purposes.
In the basic version 195000-007, the rack features two wooden beams which represent the rafters of a pitched roof. On these rafters, roof hooks, mounting rails, and the module are fastened.
The 195000-008 module rack is a mere presentational stand for the module. The bearing rails of this design feature an anodized aluminium look. This item is delivered with a complete fastening kit for 1 module including roof hooks, screws, etc.; Please specify the module type when ordering.
☞ Component overview: Auxiliary equipment / accessories
Ground-mounted solar plants and carports

Further solar systems

Ground-mounted solar plants

Each FS system for ground-mounted solar plants is custom-designed for the respective location. Apart from the pile-driving technology, we also provide the PvMax3 which is a system for concrete foundations.

The solar tracker designed by Schletter is a tracker system that can be pivoted around its horizontal north-south axis. The rotational axis allows optimum area utilization.

✦ Product sheets FS / TerraGrid / PvMax3
✦ Product sheets FS Track-2
✦ Brochure of ground-mounted systems
Carports

Park@Sol is made up of standardized carport kits for private households as well as for company parking lots. Park@Sol is the result of a purposeful further development of the Schletter FS mounting systems for ground-mounted solar plants that already have been used all over the world for setting up solar plants with a total power of several GW. A solar carport is just perfect for covering a considerable part of the power demand of a building and if there is surplus solar power also for supplying „solar charging stations“ for electric vehicles. In certain cases, storing solar power is also a reasonable option. The carport is simply used as a self-consumption plant: As much power as possible is used directly on location in the building or for charging electric cars. The rest is fed into the power grid. If required, power can also be taken from the grid.

Produktblätter Park@Sol
Prospekt Park@Sol
Our members of staff are available to provide comprehensive and competent technical advice for the planning of your solar plant and to answer questions regarding logistics and order processing.