



## MOUNTING SYSTEMS|GROUND-MOUNTED



## YOUR PARTNER



FOR EFFICIENT SOLAR CONCEPTS  
QUALITY MADE IN KIEL

SOLprime was founded in 2010 as a joint venture between several specialist partners with the aim of offering the solar market efficient products. Since then, our team has combined the know-how and industry experience from metal processing, engineering and renewable energies. SOLprime designs, manufactures and supplies photovoltaic mounting systems for roof-mounted and ground-mounted installations in the multi-digit megawatt range.

From the design to the last screw of the mounting frame, you receive everything from one source and a suitable solution for every project. Furthermore, we supply you with complete solutions or custom-made products and provide a customer service you can always rely on.

We are constantly working on adapting and optimising our offers in line with market requirements. Therefore, we can offer our customers much more than just innovative rack technology.

Our mounting systems are subjected to various quality controls. In addition to a check of the statics, an optimisation in the wind tunnel and an FEA are carried out.

Since 2010 we have supplied over **500 megawatts** of ground-mounted and rooftop structures and installed over **600 rooftop systems** for private customers.



### SOLprime mounting systems

System technology with effective application possibilities! Get to know the advantages of the systems and let us convince you of the outstanding quality!



### At home in the north, in use throughout the world!

Wherever the sun shines, there are countless possibilities to use solar power as a sustainable source of energy. PV systems can ensure self-sufficient energy security, also at locations that do not have an electricity grid. SOLprime has already supplied numerous projects worldwide with innovative custom-made products.

You can get an overview of our international projects and references at [www.solprime.de](http://www.solprime.de).



### Low cost of the material package

Finite Element Analysis (FEA) and wind tunnel analysis as well as sophisticated profile geometries ensure optimal material usage.

# GROUND-MOUNTED SYSTEMS



THE SECURE BASIS  
FOR YOUR PHOTOVOLTAIC SYSTEM

SOLprime mounting technology provides effective options for quick and easy installation of ground-mounted photovoltaic systems. The flexible design of the substructure offers solutions for almost all requirements: different module sizes, module arrangements, table inclinations and ground types.

Our technical solutions for the mounting of PV modules are designed with practicality in mind, are of high quality and can be used in many different ways. We offer a complete range of substructure and fastening elements. Plant designers can quickly and efficiently plan and implement your ground-mounted plant with SOLprime system technology.

We provide sturdy constructions for a long service life as well as innovative system technology that enables simple installation in the shortest possible time. SOLprime mounting systems are internationally renowned because they offer every photovoltaic system the perfect solution for a reliable basis.

If required, we also offer geological investigations to determine the pile-driving depth.

Efficient implementation of ground-mounted systems - with your partner SOLprime.



## SOLprime advantages:

- ❖ Innovative, cost-effective solutions;
- ❖ Simple assembly in shortest assembly time;
- ❖ Tested quality for high stability and safety;
- ❖ Long service life due to high-quality materials;
- ❖ Short delivery times and worldwide delivery



### Simple and fast mounting

The installation of the systems is simple and error-proof, so that even fitters with little previous experience can set up the systems with little training time. The systems have comparatively few components, none of which weighs more than 20 kg. Due to the low individual weight, the components can still be moved easily by hand.



### Integrated alignment options

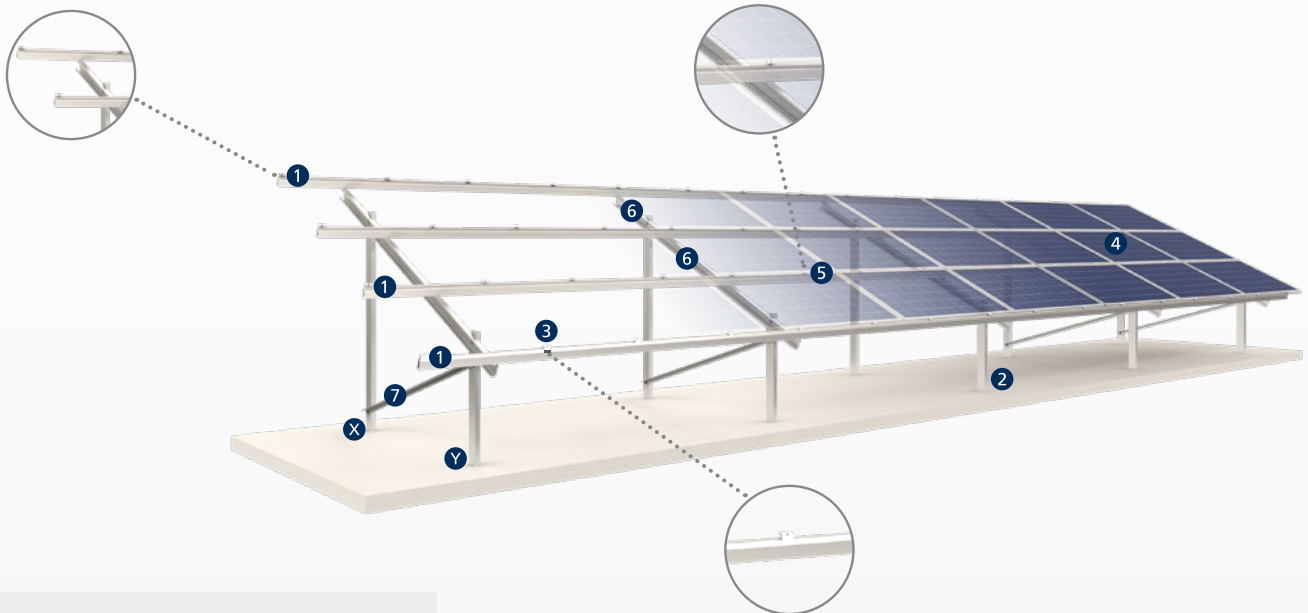
Alignment possibilities in all directions are already provided in the profiles, so that ramming differences can be compensated. Nevertheless, ramming is of central importance, because excessive deviations from the ramming tolerance (alignment  $\pm 2.5$  cm) mean a disturbance of the optimal assembly process. Since all compensation possibilities are already integrated, correction elements are not necessary.

**PLANNING**  
SUPPORT  
INCLUDED

## TYPE 15R Steel/Aluminium

One of our best sellers is the TYPE 15R system. This widely used system offers a simple and fast assembly with short-term worldwide material delivery times.

The system, which has proven itself over several years, is constantly being adapted to changing markets. The module tilt angle is 20°-30°.



- ① Assembly profiles
- ② Piling post
- ③ Module end clamps
- ④ PV modules
- ⑤ Module clamping plate
- ⑥ Purlin
- ⑦ Wind bracing

Common pile-driving depths	Slope	Module orientation
X = 700–1,000 mm	20°–30°	Horizontal
Y = 1,200–1,500 mm		

SOLprime advantages: simple assembly|Finite Element Analysis  
flexible adjustment|tested quality|wind tunnel-optimised



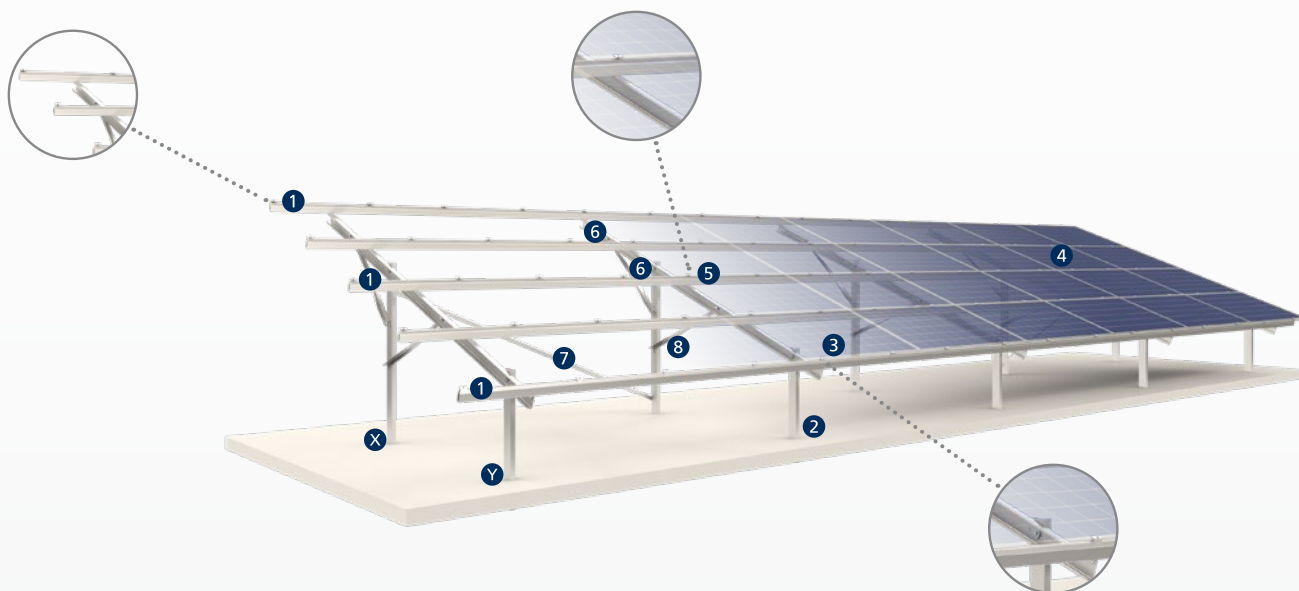
The mounting system **TYPE 15R** is supplied with all necessary mounting profiles, screws, nuts, module clamps etc. Detailed data sheets with the exact quantities and dimensions are at your disposal from the project planning phase onwards.



## TYPE 17R Steel/Aluminium

Efficiency even in small spaces! Not least because of the increased number of modules per table, the Type 17R system is very popular.

The robust construction offers a space-saving, stable and safe rack system. The module tilt angle is 20°-25°.



- ① Assembly profiles
- ② Piling post
- ③ Module end clamps
- ④ PV modules
- ⑤ Module clamping plate
- ⑥ Purlin
- ⑦ Wind bracing
- ⑧ Wind twisted

Common pile-driving depths	Slope	Module orientation
X = 700 – 1,000 mm	20° - 25°	Horizontal
Y = 1,200 – 1,500 mm		

SOLprime advantages: simple assembly| Finite Element Analysis  
flexible adjustment| tested quality| wind tunnel-optimised



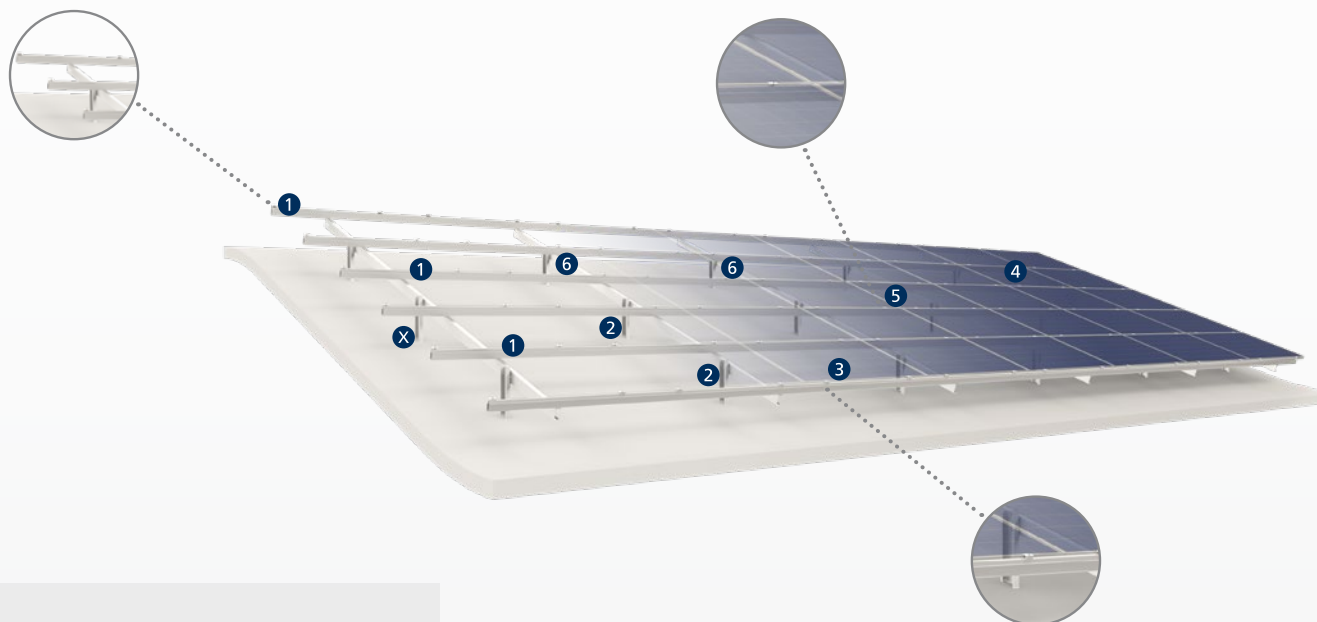
The mounting system **TYPE 17R** is supplied with all necessary mounting profiles, screws, nuts, module clamps etc. Detailed data sheets with the exact quantities and dimensions are at your disposal from the project planning phase onwards.

*For further information please contact us by e-mail or phone. We are happy to advise you!*

## TYPE 18R Steel/Aluminium

Proven technology and cost-effective solution for slope areas, such as landfills. Here the system adapts to the substrate.

The module inclination angle depends on the respective substrate.



- ① Assembly profiles
- ② Piling post
- ③ Module end clamps
- ④ PV modules
- ⑤ Module clamping plate
- ⑥ Purlin

Common pile-driving depths	Slope	Module orientation
X = 600–1,000 mm	Hangpar.	Horizontal

SOLprime advantages: simple assembly | Finite Element Analysis  
flexible adjustment | tested quality

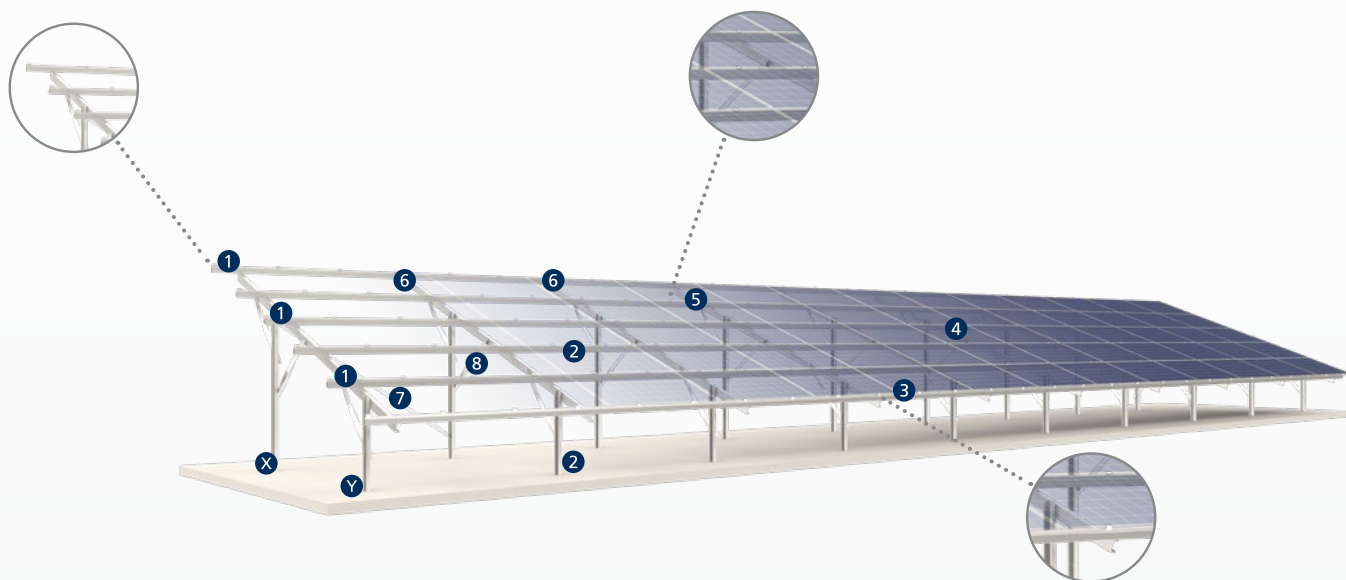


The mounting system **TYPE 18R** is supplied with all necessary mounting profiles, screws, nuts, module clamps etc. Detailed data sheets with the exact quantities and dimensions are at your disposal from the project planning phase onwards.

**TYPE 10R** Steel/Aluminium

With up to 70 modules or approx. 115 m<sup>2</sup> module surface with an inclination of 15° to 20°, the system TYPE 10R 5x14 is currently the largest table variant.

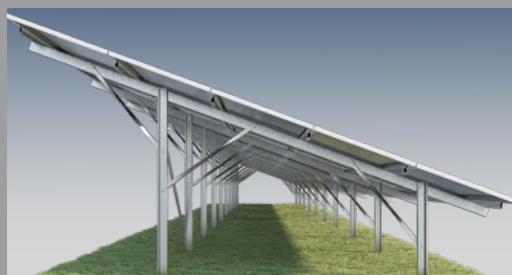
On the basis of proven profile geometries, the system offers options for optimum space utilisation.



- 1 Assembly profiles
- 2 Piling post
- 3 Module end clamps
- 4 PV modules
- 5 Module clamping plate
- 6 Purlin
- 7 Wind bracing
- 8 Wind twisted

Common pile-driving depths	Slope	Module orientation
X = 800–1,400 mm	15° - 20°	Horizontal
Y = 1,200–1,600 mm		

SOLprime advantages: simple assembly | Finite Element Analysis  
flexible adjustment | tested quality | wind tunnel-optimised



The mounting system **TYPE 10R** is supplied with all necessary mounting profiles, screws, nuts, module clamps etc. Detailed data sheets with the exact quantities and dimensions are at your disposal from the project planning phase onwards.

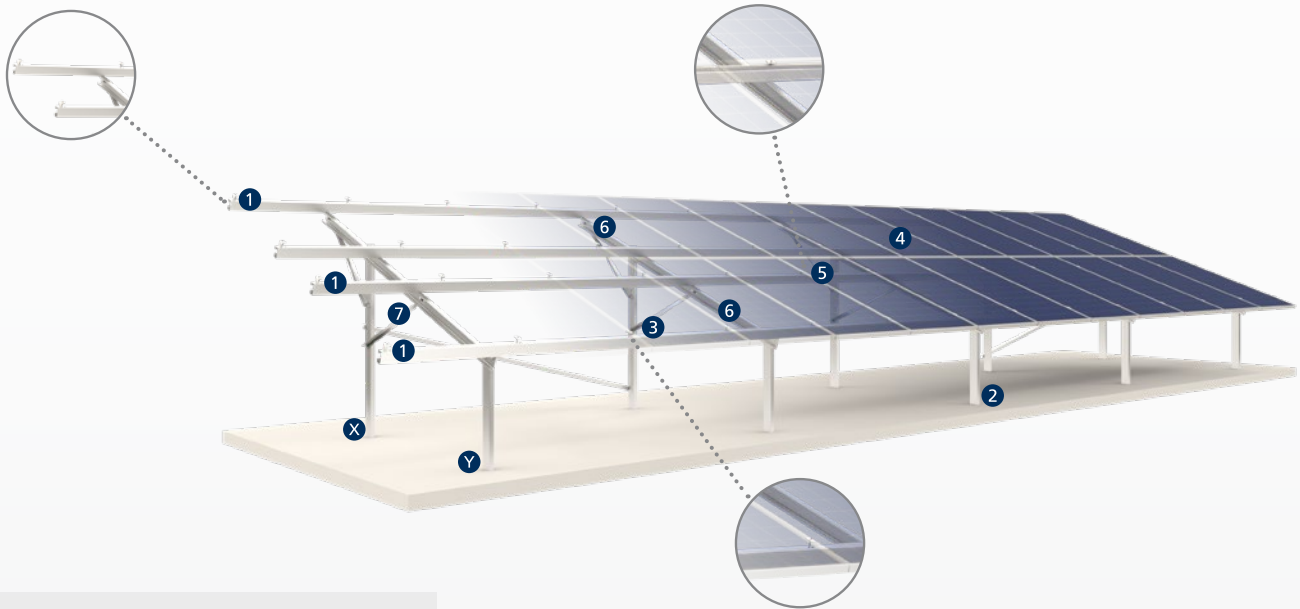
*For further information please contact us by e-mail or phone. We are happy to advise you!*



## TYPE 17R 72C Steel/Steel

New module technology with 72-cell modules and module lengths of approx. 2 m can be placed vertically on tables of the system TYPE 17R 72C.

The tried and tested features of the Type 17R system are retained.



- 1 Assembly profiles
- 2 Piling post
- 3 Module end clamps
- 4 PV modules
- 5 Module clamping plate
- 6 Purlin
- 7 Wind bracing

Common pile-driving depths	Slope	Module orientation
X = 700–1,000 mm	20° - 25°	Vertical
Y = 1,200–1,500 mm		

SOLprime advantages: simple assembly | Finite Element Analysis  
flexible adjustment | tested quality | wind tunnel-optimised



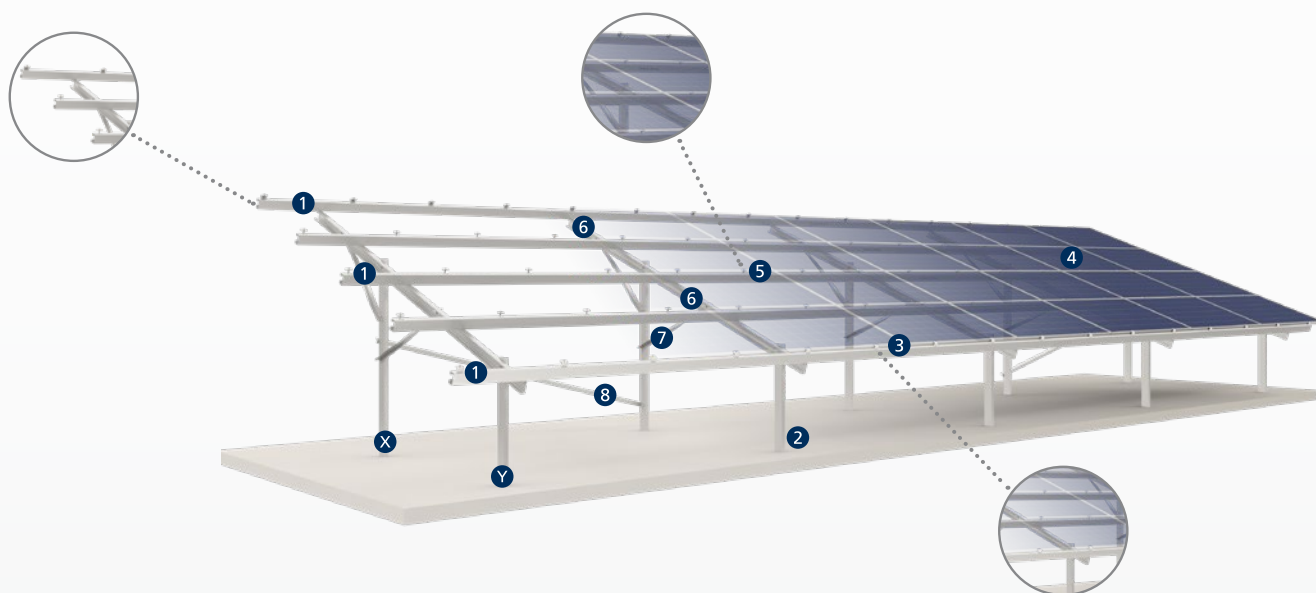
The mounting system **TYPE 17R 72C** is supplied with all necessary mounting profiles, screws, nuts, module clamps etc. Detailed data sheets with the exact quantities and dimensions are at your disposal from the project planning phase onwards.



**TYPE 17R MPS** Steel/Steel

As an alternative to our steel/aluminium systems, we offer the MPS variant based on our TYPE 17R system. The positive properties of the system are retained.

In addition, this option provides us with alternatives in the event of price fluctuations on the metal markets.



- 1 Assembly profiles
- 2 Piling post
- 3 Module end clamps
- 4 PV modules
- 5 Module clamping plate
- 6 Purlin
- 7 Wind bracing
- 8 Wind twisted

Common pile-driving depths	Slope	Module orientation
X = 700 – 1,000 mm	20° - 25°	Horizontal
Y = 1,200 – 1,500 mm		

SOLprime advantages: simple assembly | Finite Element Analysis  
flexible adjustment | tested quality | wind tunnel-optimised



The mounting system **TYPE 17R MPS** is supplied with all necessary mounting profiles, screws, nuts, module clamps etc. Detailed data sheets with the exact quantities and dimensions are at your disposal from the project planning phase onwards.

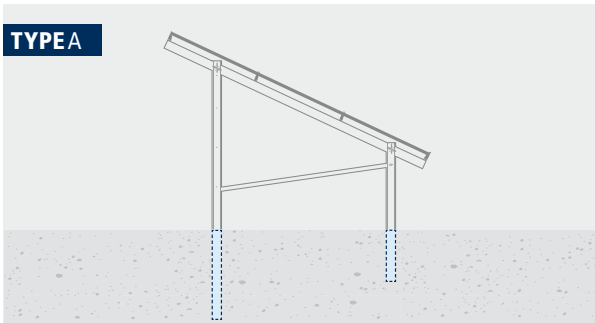
*For further information please contact us by e-mail or phone. We are happy to advise you!*

# FOUNDATION OPTIONS

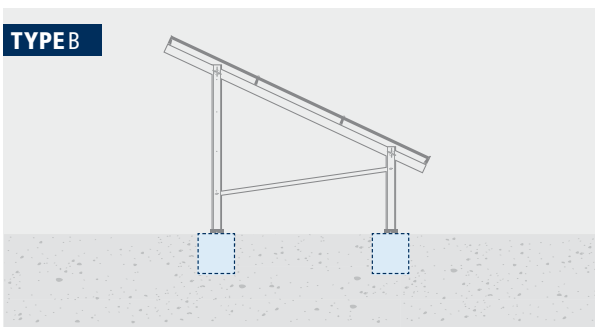


PERFECT STABILITY  
ENSURES LONG SERVICE LIFE

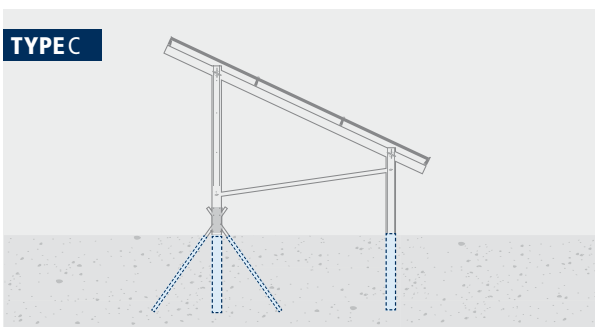
**TYPE A**



**TYPE B**



**TYPE C**



The SOLprime substructure for ground-mounted systems can be used for all types of ground. Depending on the ground conditions and the resulting pull-out forces, the modules can be mounted either by means of rammed steel posts (type A) or concrete foundations (type B). The root foundation (type C) is used for low ramming depths with low extraction forces.

The tested support design is optimised in the wind tunnel and designed according to a system statics under Eurocode (EN 1993-1-1; EN 1993-1-3; EN 1999-1-1). It can be planned safely and cost-effectively, depending on the location and the report on the static soil properties including a pull-out test. We also provide this service on request.

The modules are fixed on SOLprime mounting profiles with module end clamps "MEK" or module clamping plates "MKP". The mounting profiles lie on cross beams, which are screwed to the piling posts. The piling posts are braced relative to each other with wind struts and tension connectors as required.

In addition to our standards, we manufacture individually according to your specifications and the project-specific conditions. All materials are highly resistant to corrosion and are made of stainless steel, aluminium and galvanised steel.



## Our customer consultants support your project

- Preparation of a soil report / pull-out test
- Recommended pile-driving depth
- Location-related static design
- On-site installation instruction
- Complete assembly  
(measuring, ramming, substructure, modules)

Contact us:

Phone: +49 (0) 431 667 491 - 10

Fax: +49 (0) 431 667 491 - 28

E-mail: [info@solprime.de](mailto:info@solprime.de) | [www.solprime.de](http://www.solprime.de)

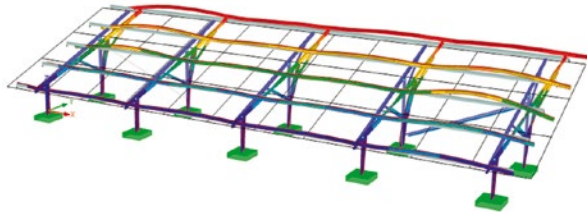


Instagram: [@solprimepowersystems](https://www.instagram.com/solprimepowersystems)  
Facebook: SOLprime Power Systems

## TESTED QUALITY



FOR HIGHEST STABILITY  
ENSURES LONG SERVICE LIFE



### Finite Element Analysis (FEA)

Materials in accordance with German quality standards, static testing, FEA and wind tunnel optimisation guarantee the long-term stability of our systems, which we offer on the basis of steel/aluminium or steel/steel.

During production we attach great importance to quality: Large components are manufactured in Germany and neighbouring countries. We produce many individual parts ourselves in Kiel, Germany.

An overview of our projects and references can be obtained at [www.solprime.de](http://www.solprime.de).

We also offer the right mounting system for on-roof solutions.

We offer material for fixing the photovoltaic system for almost any type of roof. Our products are continuously optimised. All mounting systems are designed to ensure complete tightness of the roof after installation and secure and stable fixing of the system. The majority of the products are made of corrosion-resistant aluminium or stainless steel.



If you have any questions regarding the processing and technical properties of the mounting systems, our customer service and design engineers will be happy to assist you.





AT HOME IN THE NORTH IN USE THROUGHOUT THE WORLD



GERMANY · ENGLAND · POLAND · AUSTRIA · SOUTH AFRICA · PERU · BAHAMAS · BOTSWANA · ZIMBABWE · TOGO  
NAMIBIA · DOMINICAN REPUBLIC · TURKEY · DENMARK · PAKISTAN · COLOMBIA · LATVIA · MADAGASCAR · ARGENTINA  
BAD KÖSTRITZ · BALLENSTEDT · BASIN BRIDGE · BOWERHOUSE · BLÖSA · CADÓW · CATTENSTEDT · SWINDON  
CZARNOCIN · DEERSHEIM · DOBRYSZYCE · DRENTWEDE · DUBINY · EBERGÖTZEN · EBERSWALDE · EGELN  
EISENHÜTTENSTADT · FALKENSEE · FANNY HOUSE · FRIEDLAND · FRIEDLAND DATZE · GROBIA · GRONOWKO  
GROßBADEGAST · GOLZOW · GUILSBOROUGH · GÓRCYZN · HARZGERODE · HARSLEBEN · HENNICKENDORF  
HOHENTHURM · HORSTFELDE · HÖRSEL · ILBERSTEDT · IZABELÓW · JEŻEWO STARE · KARGOW · KAYSERI · KRUCKOW  
KENT · KOZIKI · LENZ · LEUSSIN · LIGOTKA WIELKA · LINDRIDGE · LISOWICE · LOWER NEWTON · LUCKENWALDE  
MAESGWYN · MARTFELD · MARKSBURY · MISSION · MODERÓWKA · MORFA CAMP · MROKOCIN · MÜHLENBECK  
MÜLLROSE · NELLSCHÜTZ · NETHER MILL · NETLEY · OSTENDE · OSTERNIENBURG · OSTROLEKA · PARSAU  
PARKVIEW · PENNINGTON · PÖLCHOW · QUEDLINBURG · REISDORF · RICKFIELD · ROGENTIN · SEDZIEJOWICE  
SEELow · SIEMIATYCZE · SIEMKOWICE · STARE LEWKOWO · STARA WIES · ATZENDORF · STRALENDORF · SONNEWALDE  
SOUTHDOWN MARINA · SUHL · SZCZAWIN · SÜLTE · TARNOGORA KOLONIA · TAUBENHÖRNCHEN · TAUNTON · TUTOW  
TECHENTIN · TIMMENRODE · TRUSZCZANEK · TUTOW · UNSEBURG · VANSELOW · WALDDREHNA · WALTERSHAUSEN  
WALLY CORNER · WEEDON · WEGELEBEN · WEITIN · WIDERSTEDT · WOLKOWE · WOLMIRSLEBEN · WRAYSBURY  
WRIEZEN · ZAHNA · ZALEZE · ZARNOWIEC · ZDUNSKA WOLA · ZIELECICE · ZELOW · ZEMMIN · ZSCHAUITS · ZWICKAU

**SOLprime – Mounting systems**  
**The secure basis for your photovoltaic system!**

SOLprime Power Systems GmbH | Philipp-Reis-Weg 6 | D-24148 Kiel  
Phone: +49 (0) 431 667 491-0 | Fax: +49 (0) 431 667 491-28 | [info@solprime.de](mailto:info@solprime.de) | [www.solprime.de](http://www.solprime.de)