

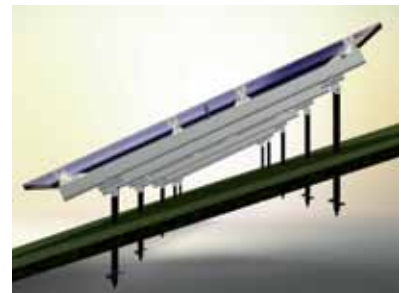
TerraGrid

The open area system for deep foundations

- Low anchoring depth due to screw foundation
- Maximum structural safety and durability
- Especially for applications on landfill sites
- Simple deconstruction



The **TerraGrid** system is part of the Schletter product series for open area systems and allows the mounting of solar plants on steep sites and on heterogeneous subsoils. **TerraGrid** is mainly used for solar plants on landfill sites, as due to the wide sections of the screw foundations, very low anchoring depths are sufficient for the transmission of the loads from the the construction into the subsoil. The Schletter open area system has been used for several years for big projects all over Europe and is planned individually for each location.



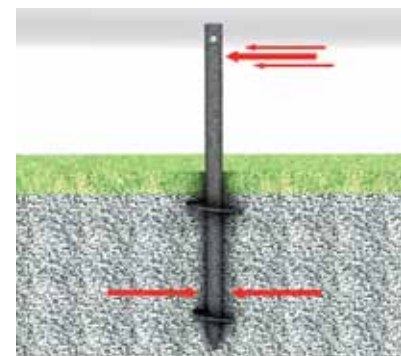
Product information

The **TerraGrid** system excels with its application options with complex soil compositions. As the solar plant is mounted on adjustable screw foundations that are drilled into the soil using special drilling units, soil unevennesses can be evened out. There will be no soil sealing by concrete foundations. The **TerraGrid** system is fastened close to the ground and only requires a low anchoring depth. We recommend to dimension the module racks in small segments of up to 12 meters. Thus, the solar plant can be adapted to the terrain shape. All kinds of modules can be used.



Special characteristics

The **TerraGrid** system does not only have advantages in ecological respect, as no concrete foundation is required, but also optimum structural safety even with difficult subsoils.



Mounting

As a basis for the calculation of the elevated open area system, geological surveys are carried out. For this purpose, samples are taken by our specialists and a detailed soil profile is created.

On the basis of the structural analysis, the screw foundations are drilled into the soil using special drilling units.

After that, the rack is put on the foundations and screwed.

Module mounting is carried out swiftly and cost-efficiently – according to the desired module arrangement either from the ground or with respective aid devices.

Framed modules are usually mounted vertically above each other, unframed thin-film modules usually are mounted horizontally above each other, because like this the structural module characteristics can be used in an optimum manner.



Accessories


For simplified mounting, the following accessories are available:

- Cable duct
- Cable clip for purlin
- Cable clip for girder
- Pipe clamp for foundation

On request, the complete plant can be equipped with exterior lightning protection by means of just a few additional components. For this purpose, the Schletter GmbH offers a special planning program (see also FS Protect product sheet).



Technical data

Material	Fastening elements, bolts: High-grade steel 1.4301 Profiles: Aluminum MgSi05 /EN AW 6063, EN AW 6005 Screw foundations: Steel, hot-dip galvanized
Logistics	<ul style="list-style-type: none"> • Quick and simple mounting • Maximum level of pre-assembly • Optimized transport to the construction site
Construction	<ul style="list-style-type: none"> • Adjustment options to equalize ground unevennesses • For framed and unframed modules
Soil analyses	Soil survey on location and chemical analysis for the creation of a soil profile.
Structural analysis	<ul style="list-style-type: none"> • Individual terrain structural analysis on the basis of a soil survey • Individual structural analysis of the system based on regional load values Load assumptions according 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, respectively according specific national norms • Optimized material dimensioning based on the latest research results from the area of wind dynamics. • Structural analysis of all construction components based on FEM-calculation
Delivery and services	<ul style="list-style-type: none"> • Individual structural analysis of the rack based on regional data • Drilling of the foundations and delivery of the complete mounting material • optional: Rack mounting • optional: Complete module mounting
Warranty and Certifications	

Conclusion

Schletter open area systems have been designed as an economic and practical mounting solution for large-scale open areas and are suitable for all kinds of landscape conditions.

With our TerraGrid system you save both work hours and labor costs:

- *The screw foundations can be inserted simply and quickly and safeguard optimum structural safety. Only a low anchoring depth is required - even on difficult subsoils!*
- *The TerraGrid also gives you the opportunity to use areas for solar power generation that would have been unusable for solar installations in the past.*
- *Both from an ecological and economic point of view, this kind of mounting has the advantage that there is absolutely no soil sealing - this saves money and protects the environment.*

**Our team will be glad to assist you if you have any individual inquiry!
Please find further information and our declaration of guarantee on the internet.**

*in accordance with our General Terms and Conditions of Sale and Supply (www.schletter.com.au/AGB)
Subject to changes and/or technical modifications.