

# Suntub<sup>®</sup>

The perfect solution for flat roofs



[www.solarworld.com](http://www.solarworld.com)

**We turn sunlight into power.**

# Suntub® : Step by step



## A POSITIONING THE SUNTUB® PLASTIC BASES

Suntub® systems are composed of two easily assembled, identical plastic bases. Each system has two high and two low bases to support a single solar module. To ensure the module has the ideal tilt angle to the sun, the Suntubs must be set up with their flat sides facing south.

To connect individual Suntubs, mount the connecting elements and screw them in place during positioning. Lateral clearance between the installed solar modules should be over 8 mm.



## A HIGH-PERFORMANCE SYSTEM

Flexible and easy-to-install: Suntub® flat-roof installation systems are perfect for installation on flat roofs with inclines of up to 6°, for example on office buildings or bungalows. They allow the modules to be optimally tilted towards the incident light. The modules' superb rear ventilation ensures even better performance. Suntub® systems deliver about 3% more output than conventional flat-roof tub installation systems. In addition, they come with a 10 year parts guaranty, so you can count on quality over the long term.



## B BALLASTING AND ASSEMBLY

The Suntubs can now be weighed down with the load recommended by the system plan. Gravel or concrete blocks, for example, can be used for this purpose. After

ballasting, insert both aluminium profiles into the Suntubs up to the stop. The groove for the T-head bolt must be facing up.



## EXCELLENT DESIGN

Clean and stable energy supply – Suntubs, developed and designed by SolarWorld engineers, feature high stability combined with low weight. The aerodynamic design and larger contact surface reduces load to the very minimum. The systems can be easily connected to each other for even greater ballasting advantages. Thanks to their intelligent design, no additional wind-force certification is required. Suntubs are also sustainable: they deliver higher solar energy output and, because they're built from environmentally-friendly, easily recyclable plastic, they promote a positive environmental balance overall.



### C MOUNTING THE MODULE

After loosely assembling the clamp connections, the solar module can be lowered in place from above and fastened with the upper clamp connections. Please be aware that the module must be centred on the Suntub®. After aligning the solar module, tighten all the bolts.



### D WIRING

The wiring must follow the wiring diagram. Be careful to lay the wires so that they are protected from damage. Only an authorized electrician should make the connection to the public grid and activate the system.



## FAST INSTALLATION

Simply straightforward: perfectly compatible components from SolarWorld® make installation easier and ensure fast and efficient set-up. Installing Suntubs does not interfere with the roofing or bottom cover in any way. The units can be flexibly fitted with a variety of module types, for example with the Sunmodule Plus® from SolarWorld. Besides the extremely resistant Suntub® flat-roof systems, SolarWorld Sunkits® include high-performance modules and inverters, and are pre-modified to suit each customer's individual structural demands.



## Suntub<sup>®</sup> – efficiency for flat roofs

- › Optimised irradiance angle
- › Higher efficiency
- › About 3% more output
- › 10 year parts guaranty
- › Flow optimized design
- › Significantly reduced ballast-load with larger contact surface
- › No additional wind-force certification required
- › Perfectly compatible components
- › Easy and efficient installation

# Top quality across all levels of production

SolarWorld AG, with sites in Germany, Spain, Asia, Africa and the US is one of the world's biggest groups of solar companies. All products from raw silicon up to large solar systems are produced within the Group. Consistent quality management and state-of-the-art R&D departments guarantee the ongoing high yield of the products. Moreover, SolarWorld® recycles all conventional solar power modules and thus completes the material cycle, maximizing solar energy's environmental benefits.



## Benefits at-a-glance

- > **German quality standards**  
Fully automated production plants and seamless process and material monitoring guarantee quality that sets standards worldwide wherever the Group operates.
- > **Longstanding experience**  
With over 30 years of production experience, SolarWorld AG has been one of the global market leaders for many years.
- > **25-year linear performance warranty\***  
Durable high-performance products ensure long-term yield stability.
- > **Award-winning products**  
SolarWorld's modules were rated by the ÖKO-TEST consumer magazine as "excellent".



\* in accordance with the SolarWorld service certificate valid at the time of purchase | [www.solarworld-global.com/service-certificate](http://www.solarworld-global.com/service-certificate)

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