

Solar Alpino

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GROUPE

The new generation of PV substructures **Solar Alpino**

The light PV substructure SOLAR Alpino is ideal for use on flat roofs. It has sealing and insulating material from manufacturer SOPREMA.

Their flat roof expertise with the competence of MW Photovoltaic Engineering GmbH combined. The result is an efficient, permanently safe **Fastening system for PV modules, with which on your roof immediately the use of renewable energies can be the focus.**

User-friendly and economical

Its slim design and ballast-free positional security make the SOLAR Alpino substructure one of the lightest solutions on the market. The low weight per square meter opens up new scope for PV solutions roofs with low load reserves and has advantages in terms of the compressive load of insulating materials. Thanks to newly developed construction details, the professional setup is easier than ever.

Short assembly times with minimal use of tools make the substructure outstanding profitable. Because the SOLAR Alpino with a third locking option equipped, are sufficient for areas with high wind suction loads now two instead of three substructures per module off – it pays off.



Durable PV roof structures

The substructure SOLAR Alpino is for roofs with bitumen and suitable for plastic sealing and allows maximum flexibility with regard to the respective flat roof geometry. Due to the penetration-free installation, the preserve the integrity of the seal. In combination with high-quality SOPREMA system structures, on request as a cool-roof variant, long-lasting and sustainable ones are created PV flat roofs.

Best conditions for a maximum solar energy

For the best energy efficiency of the PV system, the set up the SOLAR Alpino in a south or east-west orientation. Special climate plus: The white module carrier with a Top SRI score of 100 supported by its light colour the light reflection. This creates less heat under the solar modules and the energy yield on the roof optimized.



White Design
supports the
cool roof effect &
increases the
solar yield

Safe, no temperature spikes

Technically high quality and easy to assemble

DISCOVER THE ADVANTAGES

Extremely light

- Significantly lighter than comparable substructures
- Ballast-free attachment
- Also for roofs with low load capacity reserves

High Performance Material

- UV-stable, durable, fire-resistant (flammability class V-0)
- Manufactured in a way that conserves resources and uses less material

Fewer hand movements during assembly

- Few components; no tools required after that
- Welding of the cuffs
- Click fastener for easy hanging of the modules
- No grounding required



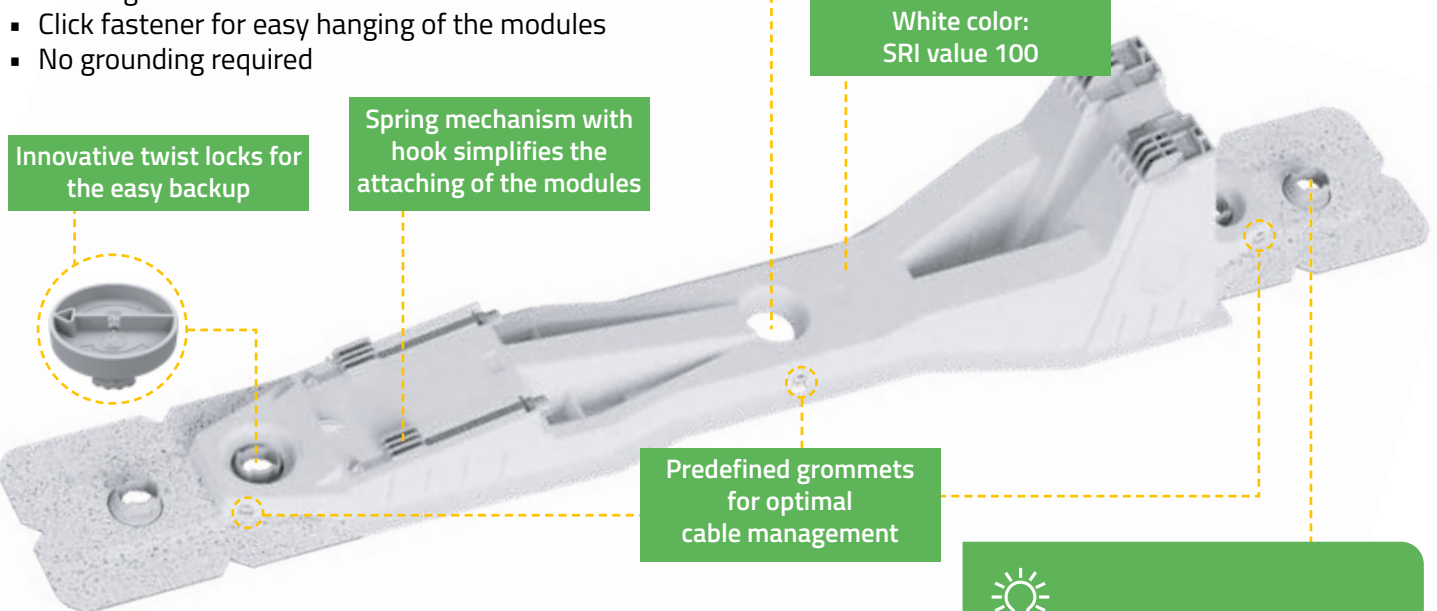
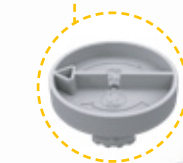
UP TO 20% LESS SUBSTRUCTURES NECESSARY



Due to the additional locking option are in the middle of the module carrier even with exceptionally high wind loads two instead of three substructures are sufficient per module. The bigger the PV area, the more substructures can be saved.

Innovative twist locks for the easy backup

Spring mechanism with hook simplifies the attaching of the modules



White color: SRI value 100

Predefined grommets for optimal cable management

Flexible – for optimum solar yield

- South and east-west orientation possible
- Can be combined with almost any type of framed PV module*

* Approvals are given by the respective module manufacturer

Easy dismantling

- Sorted separation possible
- 100% recyclable



1. Base plates depending on the subsurface Bitumen or plastic sleeves weld.
2. Module carrier with twist locks lock.
3. Clamp modules.

NEW PRODUCT



Solar Carbon

The structurally identical SOLAR Carbon substructure is the economical alternative to the SOLAR Alpino. In terms of reflectivity - lower SRI value due to the dark material design - and fire properties, it has a slightly lower performance. In terms of stability and assembly, it has the same advantages.

Complete solutions from a single source

SYSTEM CONSTRUCTIONS FOR PV FLAT ROOFS

Roof sealing structures under PV systems must be stable and withstand special loads for many years. SOPREMA therefore provides you with complete flat roof systems, from the primer to the insulation and sealing to the PV substructure, each tailored to your specific project.

If necessary, we support builders, planners, roofers and solar installers with planning know-how in developing and implementing the best solution for PV flat roofs on commercial and industrial buildings. In this area we work closely with MW Photovoltaic Engineering GmbH. The engineering office has specialized in the development, planning and construction of photovoltaic systems for over ten years. The company has belonged to SOPREMA since 2022.

That is why you will now find numerous services relating to photovoltaics and suitable products such as the PV substructures SOLAR Alpin and Carbon for flat roofs and SOLAR Nature for green roofs. Rely on high-quality, optimally matched system components from a single source and benefit from more security and economy.



EXPERT TIP

Before installing a PV system, check these planning-relevant criteria:

- Load capacity / statics
- Layer structure / building physics
- Security of position / underground
- Condition of the insulation and sealing structure
- Age and remaining lifespan of the roof



Do you want to combine photovoltaics with a green roof?

Ask us about the PV substructure SOLAR Nature. The high-quality steel frame with corrosion-resistant Magnelis® coating is fixed without penetration and is an excellent choice for thriving green roofs with efficient PV systems.



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