



ROOFING

# Sika<sup>®</sup> SolarMount-1

MOUNTING SYSTEM FOR PV PANELS ON FLAT ROOFS

BUILDING TRUST



# Sika® SolarMount-1

The Safe and Durable Mounting Solution for PV Systems on Flat Roofs



## SYSTEM DESCRIPTION

Sika® SolarMount-1 is an aerodynamic, lightweight mounting system for the installation of rigid Photovoltaic (PV) panels to flat roofs. The Sika® SolarMount-1 system consists of the following components:

- PV Mount (support, 15° tilt)
- Sika® SolarClick FPO or PVC fasteners
- Accessories  
(rails, wind deflectors, clamps, screws)

The PV panels and cables are not part of Sika® SolarMount-1. There are Sika® SolarMount-1 variants for 1 to 4 PV panels (1.65 m length), supplied to site according to the specific requirements. Selection is according to the local wind loadings.

The Sika® SolarMount-1 system is exclusively distributed by Centroplan GmbH.



- 1 Complete SSM1 installation for four PV panels.
- 2 Mount and Sika® SolarClick.
- 3 Installation details see Sika's Method Statement.
- 4 See Sika's Installation Instructions.

## SAFE CONNECTION TO THE ROOF WATERPROOFING MEMBRANE

- The key component of the Sika® SolarMount-1 is the Sika® SolarClick fastener. It is produced by injection moulding from the same materials as Sika's PVC and FPO membranes. Chemical compatibility in the contact zone is therefore ensured and the use of separation layers or protection mats is not required.
- The Sika® SolarClick fasteners are mounted to each support. They provide a significantly enlarged contact area, which is important for uniform load distribution in order to reduce any local compression loads on the thermal insulation. Ponding of water is also reduced.

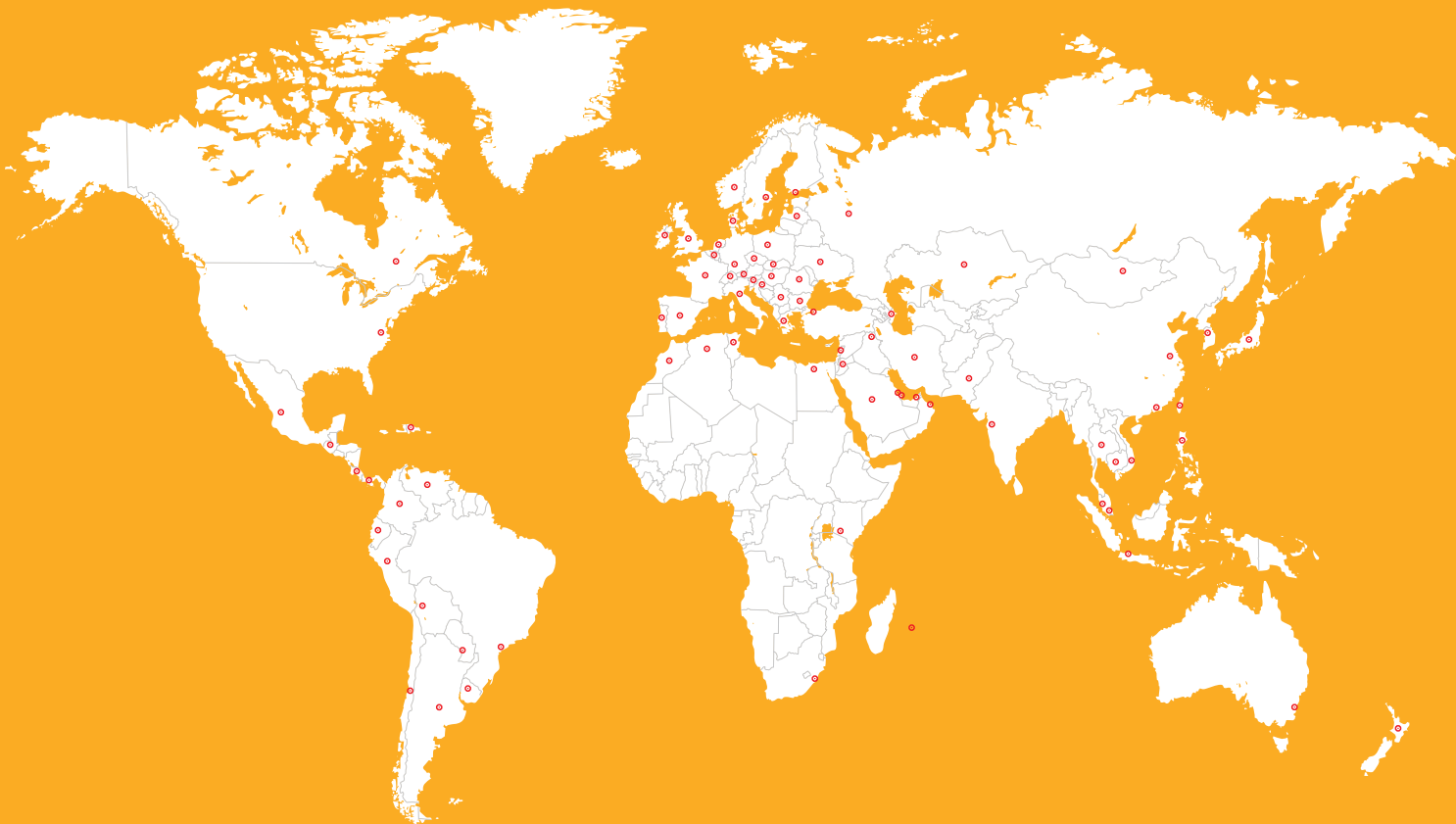
## EASY AND QUICK INSTALLATION

- The installation of the Sika® SolarMount-1 system does not require any roof membrane penetrations. The Sika® SolarClick fasteners are welded to the membrane with standard equipment and welding parameters for the respective Sika roof membrane material.
- The philosophy of Sika® SolarMount-1 is modular installation – this makes it easy to accommodate specific situations on the roof. Variants from 1 to 4 PV panels on 2 to 7 supports are standard configurations (e.g. Sika® SolarMount-1 3.4: 3 panels, 4 supports).
- There are only a limited number of components to be assembled on site – this allows fast and easy installation. All components are packed on box pallets for reduced logistics.

## LOW ADDITIONAL ROOF WEIGHT

- Ballasting is possible but not required in every zone on the roof – this makes Sika® SolarMount-1 ideal for lightweight roofs. During the design phase the load capacity for the installation of a PV system always needs to be evaluated by a Structural Engineer.
- The loading imposed on the roof by Sika® SolarMount-1 is ca. 10–15 kg/m<sup>2</sup>, including a PV panel. Localised loadings can be higher.
- This value (averaged over the roof area) is calculated from the addition of the Sika® SolarMount-1 mounting system's own weight, ballasting with paving stones and the PV module's weight, related to the panel row spacing. The distance between rows to avoid shading varies dependent on the geographical latitude, between 1.5 and 2.5 metres. Local standards must always be observed and can vary by country.

# GLOBAL BUT LOCAL PARTNERSHIP



## WHO WE ARE

Sika AG, Switzerland, is a globally active specialty chemicals company. Sika supplies the building and construction industry as well as manufacturing industries (automotive, bus, truck, rail, solar and wind power plants, façades). Sika is a leader in processing materials used in sealing, bonding, damping, reinforcing and protecting loadbearing structures. Sika's product lines feature highquality concrete admixtures, specialty mortars, sealants and adhesives, damping and reinforcing materials, structural strengthening systems, industrial flooring as well as roofing and waterproofing systems.

Our most current General Sales Conditions shall apply. Please consult the most current local Product Data Sheet prior to any use.



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