

Solarsystems by Schweizer

Product brochure MSP-FR-EW

PV- Mounting system flat roof east-west

The MSP-FR-EW photovoltaic mounting system is typically orientable in an east-west direction without roof penetrations and with very low roof loads with framed photovoltaic modules on flat roofs.

Extremely quick and easy to install the new MSP-FR-EW system is the solution for flat roofs. All parts of the system have been developed to make the installation procedure as quick and error-free as possible. Efficient pre-assembly makes subsequent installation on the roof more productive than ever before.

This system for flat roofs with a membrane or bitumen roof covering is manufactured from high-grade aluminium and has been subjected to extremely stringent wind tunnel testing. The system combines lowest possible load action with utmost efficiency and long-term durability.



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Application

- Mounting system for east-west orientation without roof penetration and extremely low roof load for framed photovoltaic modules on flat roofs

Fast and easy installation

- No time-consuming measuring, drilling or cutting work
- Roof unevenness isn't an issue: The system adapts very easily to the roof topography (whether drainage or irregularities).

Options

- Screw fittings with lightning current carrying capacity
- Ballast troughs for applying gravel

Technical Data

- Mounting angle PV modules 8 to 10 degrees
- Typical roof surface load including modules: 12–14 kg/m², depending on row spacing
- Row spacing selectable
- Roof pitch: Flat roofs up to 3 degrees (optionally with on-site connection to the roof substructure up to 10 degrees)
- Roof membrane: Foil and bitumen roof covering sheeting (PVC, FPO/TPO, EPDM, etc.), gravel and concrete on request
- Insulation: Suitable base profiles available for insulation layers with different load capacities
- Suitable for practically all common PV modules
- Universal clamps for module frame heights of 28 to 45 mm
- Materials: Aluminium, stainless steel (A2/ A4), polyester fleece protective layer (450 g/m³)
- Minimum system size 1 x 3 gables or 3 x 1 gable
- Module block dimensions max. 14 x 14 m
- Tested in wind tunnel, aerodynamic study according to WTG guidelines

Fast and simple planning

- The Solar.Pro.Tool by Schweizer provides detailed documentation of the static calculations, bills of materials and drawings for a fast and safe installation. In addition, the complete 3D visualisation provided by Schweizer's Solar.Pro.Tool enables simple and fast layout planning and optimum use of the roof.

Advantages at a glance

- Efficient workflow: No time-consuming measuring, drilling or cutting work.
- Fast pre-assembly: Saves work steps during installation.
- Preserves roof durability: Problem-free roof drainage, no penetration of roof membrane.
- Optimised load distribution: Suitable base profile length for each type of insulation material.
- Simple handling: Short profiles,



Fast pre-assembly saves installation steps.