

PV mounting system for flat roofs east-west MSP-FR-EW by Schweizer.

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.



PV mounting system for flat roofs east-west MSP-FR-EW by Schweizer:

An optimised system that reduces installation costs.

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

- Installed in less than 20 Minutes per kWp and installer. Installation is extremely fast.
- 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

- Roof surface load including modules: 7 kg/m² (if no ballast is required) up to 14 kg/m², depending on row spacing.
- Roof membrane: Foil and bitumen roof covering sheeting (PVC, FPO/TPO, EPDM, etc.), gravel possible (to be removed below base profiles).
- Insulation: Suitable base profiles available for insulation layers with different load capacities.
- PV modules: 60 and 72-cell (6") as well as 96-cell (5").
- Universal clamps for module frame heights of 30 to 50 mm.
- Typically no ballast up to wind loads of 0.8 kN/m².
- 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.
- Roof pitch: Flat roofs up to 3°.

Fast and simple planning

With proMSP, you get a complete documentation of the structural calculation, parts lists and drawings for quick and safe installation. The full 3D visualisation of proMSP also allows for easy and fast assembly planning and optimum utilisation 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.
- No cutting into lengths of metal parts: All items, including metal profiles, are supplied in the required sizes.
- 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, no long rails.



Fast pre-assembly saves installation steps.