Solar systems from Schweizer

Leaflet PV mounting system MSP-FR
Fall protection for flat roof systems

Integration of the AluTrax rail system from ABS Safety GmbH into the Schweizer MSP flat roof system

Basis & requirements

- Tested according to DIN EN 795:2012 type D and E
- Can be used in EW / S / green roof systems
- **Module block with at least 8 modules**
- **Module block Total weight min. 812 kg**
- **Base profile minimum width 300mm** along the track *(Do not use base profile MSP-FR-EW-BP 150!)*
- AluTrax rail system from ABS Safety GmbH
- No additional parts from Schweizer, all components of the anchor device are supplied by ABS

Definition of fall protection

A distinction is made between 3 types of fall protection:

- Collective protection (for example a railing or similar)
- Restraint systems (rope or rail systems) - a fall is impossible if used correctly
- Safety catch by means of an anchorage device (a fall is possible)

In general, only **collective protection or the restraint system** may be used for solar installations. Safety catchers are only authorised in special cases.

Planning

In principle, the planning fall protection is carried out by the distributor. In the case of the MSP-FR system from Ernst Schweizer AG, the distributor is usually ABS Safety GmbH in DE or its national representatives according to the ABS homepage:

Distributors | ABS Safety (https://www.absturzsicherung.de/en/distributors.html)

The positioning of the rail system is specified by ABS and the design of the PV system is adapted accordingly. In order to avoid multiple correction runs of the planning, the principles for the positioning of safety systems should already be taken into account when planning the PV system.

The requirements of the respective countries and other regulations such as accident insurers, laws, standards and guidelines must be taken into account.

Additional information on linear expansion

The maximum block size of the MSP flat roof system is approx. 14x14m and is therefore much more limited than the AluTrax rail system, which can also be built over distances of 50m in one piece.

Due to the sliding guide of the rail in the rail holders, the PV system can expand independently of the rail system.

It is recommended that the rail system is designed in an L arrangement with only one corner piece.

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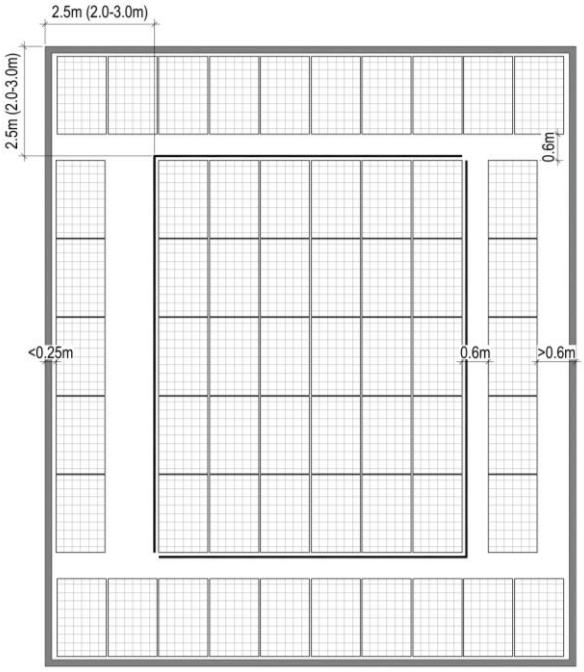
Example: Switzerland, Germany, Austria

The requirements of the SUVA, DGUV and AUVA accident insurance organisations are as follows:
(subject to change)

- The optimum distance between the anchorage device and the edge of the fall is 2.5 metres. (smaller and larger distances of 2.0 m to 3.0 m are possible with appropriately adjusted PPE, clarify with specialists)
- Footpaths must be at least 0.6 m wide
- Skylight domes or skylights are to be regarded as fall edges, unless they are breakthrough-proof (collective protection available)

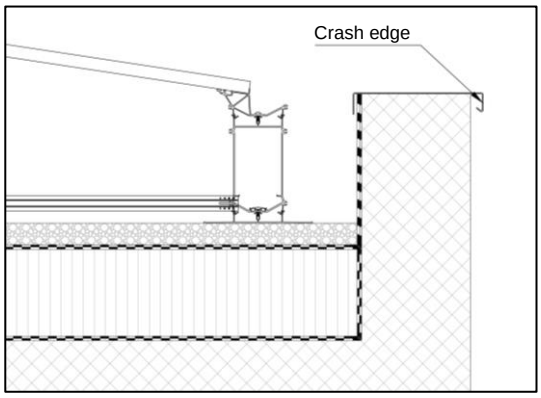
Attention only valid in Switzerland!

- Footpaths must be at least 0.6 m wide
- Spaces between the PV system and the edge of the roof must not be between 0.25 m and 0.6 m

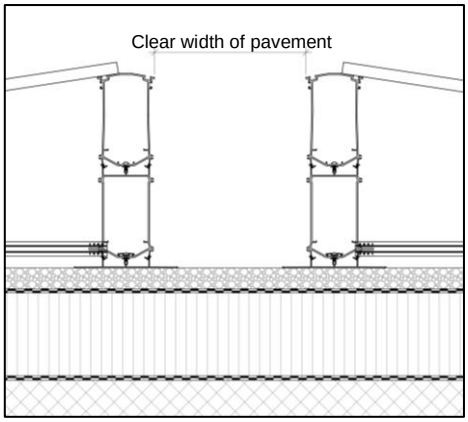


Example roof - floor plan

- Reference point on fall edge (outermost edge of the roof)



- Defined clear width for footpath



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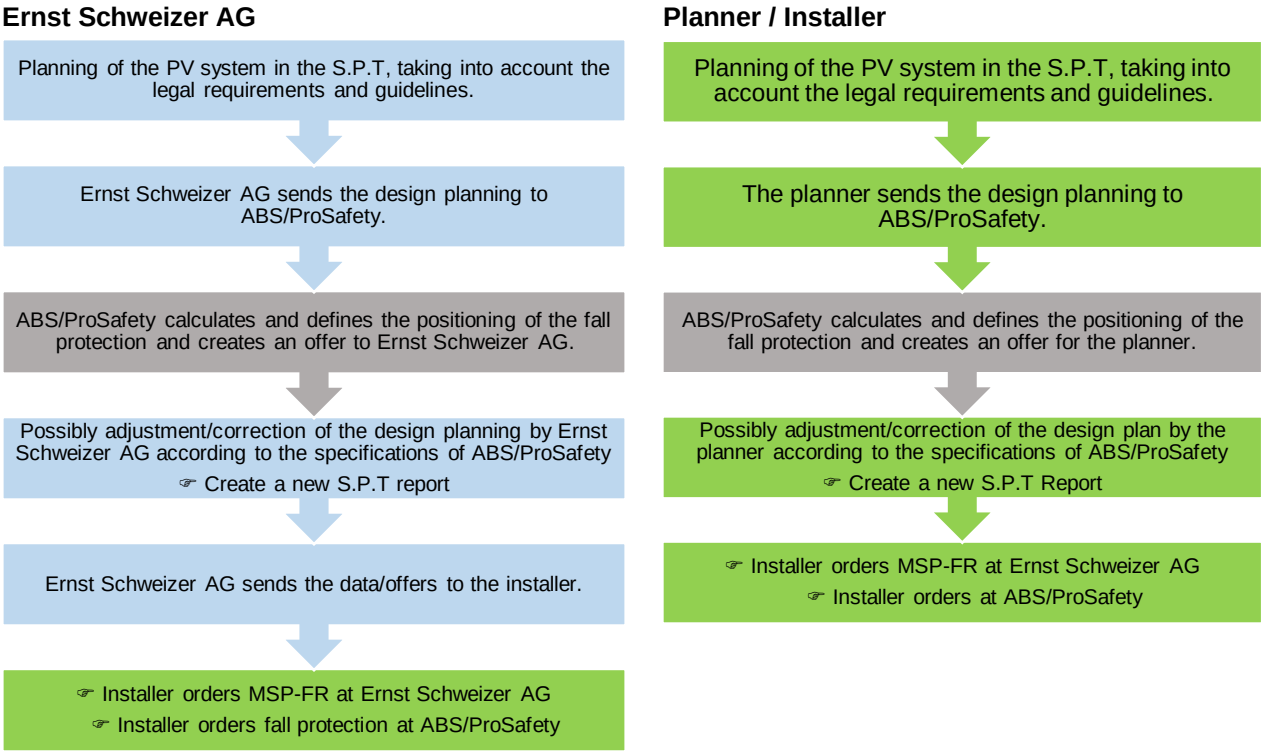
Project sequence with integrated fall protection



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For contact persons in other countries, please see the following link:
Distributors | ABS Safety (https://www.absturzsicherung.de/en/distributors.html)