Assembly notes

ABOUT THIS DOCUMENT

This is a supplementary document to the installation instructions for ALUMERO systems and contains important information on installation, warranty, liability and safety, among other things.

applicable documents

The following documents are required in addition to the installation instructions and for correct installation of the system:

- Project report from ALUMERO.PRO.TOOL
- Planning documents and drawings

target group

This document is for use with the corresponding installation instructions and is intended for trained specialist personnel who are familiar with the installation of photovoltaic systems. The specialised personnel are also familiar with working on roofs and know the local regulations regarding occupational safety. The specialised personnel must also observe the instructions in the Safety chapter.

The installation, repair and operation of the products require in-depth expertise. Installation and all other work on the systems may only be carried out by appropriately qualified and authorised specialists, i.e. licensed specialist companies. Installation must be carried out in accordance with the installation instructions, the project report and the planning documents. A specialised company is a company that is familiar with the installation and maintenance of photovoltaic systems as part of its normal business operations.

National and local building regulations, standards and environmental protection must be complied with. Under no circumstances may the installation personnel be under the influence of medication, alcohol, drugs or in any other impaired state of consciousness (e.g. fatigue). Failure to observe the safety instructions can lead to personal injury and damage to property.

intended use

ALUMERO mounting systems are intended exclusively for mounting PV modules in the defined area of application. Intended use also includes professional installation in accordance with the relevant installation instructions.

The compatibility of specific PV modules with ALUMERO systems must be clarified with the module manufacturer. ALUMERO accepts no liability for loss of performance or damage of any kind to the PV modules, particularly in the event of improper installation.

Any other use of the ALUMERO mounting systems is considered improper use.

notes on rack installation

For installation in the roof area, you must observe the currently valid rules of construction technology, in particular the requirements formulated in the DIN standards and in the „Rules of the German Roofing Trade“.

- Ensure that the substructure is suitable in terms of load-bearing capacity (dimensioning, state of preservation, suitable material characteristics), load-bearing structure and other affected layers (e.g. insulation layer).
- Ensure that the drainage of rainwater is not obstructed.
- Consider aspects of building physics (e.g. possible condensation when penetrating insulation layers).
- For installation in the roof area, you must observe the currently valid rules of construction technology, in particular the requirements formulated in the DIN standards and in the „Rules of the German Roofing Trade“.

liability and warranty

In addition to this document, the installation instructions and the project report supplied with the product also form part of the product.

The information, data and notes provided in the installation instructions were up to date at the time of printing. No claims can be made for products already delivered on the basis of the information, illustrations and descriptions.

The project report supplied includes the static calculation based on the location. The position of the modules on the roof, the number and position of the building protection mats and the ballast distribution and mounting of slanted roof fastenings must be carried out exactly as specified in the project report. If the module distribution on the roof changes due to local conditions, e.g. unforeseen interfering areas, the structural calculation must be redone. The ALUMERO systems are designed and planned using the ALUMERO.PRO.TOOL software.

ALUMERO accepts no liability for damage and faults caused by:

- Non-intended use
- Use of non-certified components
- Unauthorised modifications to the product
- Improper work on and with the product
- Installation errors
- Disregarding the installation instructions or planning documents
- Insufficient survey of the local conditions or violation of the specifications of the manufacturers of other trades that are directly or indirectly connected to the ALUMERO system

warranty

We warrant that the aluminium components and profiles of the Alumero mounting systems will retain their load-bearing capacity and functionality within the guarantee period, provided that all the general conditions mentioned above are met. Stainless steel, zinc steel and plastic products are not included in the guarantee. If shorter lifetimes are expressly stated for special components or for a special type of use, the guarantee period is limited to this period. The guarantee cannot be invoked if the installation instructions or planning documents are disregarded.

Photovoltaic mounting systems are not maintenance-free. Maintenance must be carried out annually and immediately after exceptional weather events, e.g. after heavy storms or heavy snowfall, etc. If maintenance is not carried out at the specified interval, the warranty claim will be invalidated.

Due to the risk of corrosion, these products are not suitable for use near the sea or on surfaces where road salt is applied. To prevent corrosion, the aluminium construction may only come into contact with media (solid, liquid, gaseous) with a pH value of 4.5 to 8.5.

maintenance

To prevent personal injury and damage to property, the installed system must be checked regularly by qualified personnel. The operator of the system must carry out the following maintenance points once a year.

After extreme weather events (e.g. storms, snow, hail, etc.) and after an earthquake, the system must also be tested.

complete system

- Check all system components for damage
- Replace damaged components as quickly as possible.

screw connections

- Check all screw connections and tighten any loose screw connections.
- Observe the tightening torque according to the installation instructions.

general information on liability

We would like to point out that the systems are sold as part of a purchase contract. Assembly / processing by the purchaser or third parties is not carried out in the name of or on behalf of ALUMERO Systematic Solutions GmbH. It must be carried out by qualified specialist personnel strictly in accordance with the assembly instructions. The ALUMERO system must be designed and planned using the ALUMERO.PRO.TOOL software. ALUMERO Systematic Solutions GmbH is not responsible for the project-related statics of the roof structure, obtaining and documenting the approval of the roof manufacturer, the buildability (load reserves, compressive strength, compatibility) for attaching the corresponding fasteners to the respective roof (in terms of warranties) or for the professional execution.

Faults and damage as well as limited or insufficient functionality of the system as a result of incorrect assembly and/or assembly deviating from the assembly instructions and/or the project report (ALUMERO.PRO.TOOL) exclude a material defect for which ALUMERO Systematic Solutions GmbH is responsible. In the event of improper processing, the purchaser's rights due to a material defect shall lapse. The system guarantee is only valid if all system components are purchased from ALUMERO Systematic Solutions GmbH.

systems with clamping on the short side of the module

For a system with a clamp on the short module side, it is assumed that the module may also be used in this mounting form (clamping on the short module sides). This approval may also be given by the module manufacturer on a project-specific basis.

systems with building protection mats

The building protection mat included in the scope of delivery is matched to the roof surface defined in the project. Due to the large number of different previous and current standard types of waterproofing on the market, the project manager must ensure compatibility and the coefficient of static friction between the building protection mat and the roof structure of the building, which is taken as a basis in the system design.

The friction coefficient preset in the planning programme must be checked by the installation company/buyer (wet and dry test). If a lower coefficient of friction is determined on site, it must be entered here for the load calculation!

SECURITY

requirements for personnel

The person must be at least 16 years old and in a suitable physical and mental condition. Under no circumstances may the installation personnel be under the influence of medication, alcohol or drugs. Persons who are not fit and healthy are not permitted to carry out work on roofs under any circumstances.

Trainee personnel may only carry out work under the instruction and supervision of specialist personnel who are authorised to train personnel.

occupational safety

The company carrying out the installation is responsible for ensuring that the local regulations on occupational safety and accident prevention are complied with.

breakthrough protection

Roof windows, skylights, large ventilation flaps, etc. often cannot withstand the weight or impact of a person. Such objects must be secured in a similar way to the roof edge. The entire surface of corrugated fibre cement roofs can be at risk of collapse. Define walkways and secure them with load distribution measures.

Always work with load distribution aids on roof coverings or roof structures (e.g. thin sheet metal, corrugated fibre cement) that do not have sufficient load-bearing capacity.

climbing aids

Only use suitable, intact and tested ladders. Set up and secure ladders according to specifications. Separate rules apply to mechanical climbing aids (lifts, cherry pickers, etc.). Never use the PV mounting system as a climbing aid.

weather conditions

In unsuitable weather conditions, work on the roof must not be continued for longer than necessary or not started at all. Never work in wet conditions or at temperatures below freezing. Depending on the roof pitch, there is a risk of slipping.

Never carry out installation work in strong winds. Strong winds exert enormous forces, especially on large-area PV modules. There is a risk that a module could be torn off the roof and people could be injured.

dangers from the environment

Keep a sufficient distance from overhead power lines. The following distances must be observed:

- 1 m up to 1.000 V
- 3 m: 1.000 to 11.000 V
- 4 m: 11.000 to 22.000 V
- 5 m: 22.000 to 38.000 V
- > 5 m: if the voltage is unknown

protection from falling objects

Areas below the roof on which work is being carried out must be protected from falling objects. Where this is not possible, the affected areas must be closed to the public. Persons involved in the construction project must wear safety helmets.

personal protective equipment (ppe)

Personal protective equipment is required to protect against injuries during assembly work.

- Wear safety goggles when drilling.
- Wear safety shoes.
- Wear cut-resistant work gloves during assembly.
- Helmets must be worn by all persons working on the construction site.
- Use fall protection.

IMPRINT

We reserve the right to make changes due to technical improvements! These installation instructions correspond to the technical status of the delivered product and not to the current state of development at the manufacturer.

If pages or parts of the installation instructions are missing, please contact the manufacturer‘s address listed below.

The original language of these installation instructions is German. Any assembly instructions in another language are a translation of the assembly instructions in German.

manufacturer

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update

These instructions are subject to change without notice.
This does not constitute an obligation on the part of the manufacturer.

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