LaQ07 Framed
Mounting Instructions

Safety instructions

⚠️ Planning, mounting and start-up of the solar plant must be carried out exclusively by qualified specialists. Poor quality execution can result in damage to the plant and to the building and can present a risk to people.

⚠️ Risk of falling! There is a risk of falling when working on the roof as well as when ascending and descending the building. Accident prevention regulations must be observed and appropriate safety equipment must be in place. PV mounting systems are not suitable as climbing aids or fall protection.

⚠️ Risk of injury! Objects falling from the roof can cause injury to people. The danger area around the installation site must be secured and people present in the area warned of the risks.

⚠️ Risk of breakage! PV modules can be damaged if stepped upon.

⚠️ Risk of electric shock! The mounting and maintenance of the PV modules must be carried out exclusively by qualified specialists. Please observe all safety regulations issued by the manufacturer!

Required tools

Screwdriver with bits:
- Bit hex-head SW6
- Bit 6-Lobe T40
- Flat wrench / spanner SW15

Corresponding tools
For the selected fasteners

Additional documentation

- Structural analysis
- Analysis print-out with schematic diagram from the plant calculation

The Schletter tool kit comprises tools required for all standard systems.

Mounting instructions LaQ07 Framed | 2012.08 V.002
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1. Define the area of installation
   - Concentrate the number of fasteners in edge and corner zones.
   - Further recommendations are offered in the structural analysis.

2. Mount fasteners
   - Select corresponding distance $a$ between fasteners for the respective module. Measurement $a$ is derived from the module width plus 20 mm.
   - Distance between fasteners $b$ should be taken from the structural analysis for fasteners - schematic diagram is displayed in Autokalkulator.
   - Further recommendations are offered in the structural analysis (for fasteners).

The number of fasteners required is also dependent upon the properties of the roof - please verify details with the manufacturer!

We recommend the use of a fastener with a slotted hole (e.g. Fix2000 standard). Measurement $a$ can therefore be optimally adjusted.

LAQ07 can be installed if the distances between module-bearing profiles can be precisely set - e.g. trapezoidal sheet metal roofs, seamed roofs and cross rails.

Calculation formula:
$$e = \min \left( \frac{x}{y} \text{ or } 2 \cdot h \right)$$

- $x$: Building width
- $y$: Building length
- $h$: Building height
- $e$: Fastener spacing
Mount module-bearing profile
- Feed square-head screws M10x25 into the lower bearing profile and through the slotted holes of the fasteners.
- Secure with flange nuts M10.

Extend module-bearing profile
- Position next profile.
- Mount splice E from below.
- Tighten SW6 screws (pre-assembled)

⚠ Please ensure that sufficient space is left at profile joints for the splice.
**Position bearing plate**
- Place bearing plate in required fastening position.

**Module mounting**
- Position first module to the end of profile
- Secure module with end- and middle clamps which are bolted to the module-bearing profile through the respective bearing plates.
- Fasten module with two end clamps - in our example: Click in the Rapid end clamps and tighten the 6-Lobe screws (T40).
- Connect the corresponding module cables
- Position further modules and secure each between the modules with two middle clamps.
- Secure the last module of a row with two end clamps.

For further information relating to our systems, please refer to our website: [www.schletter-group.com](http://www.schletter-group.com) under Downloads in the Solar section.