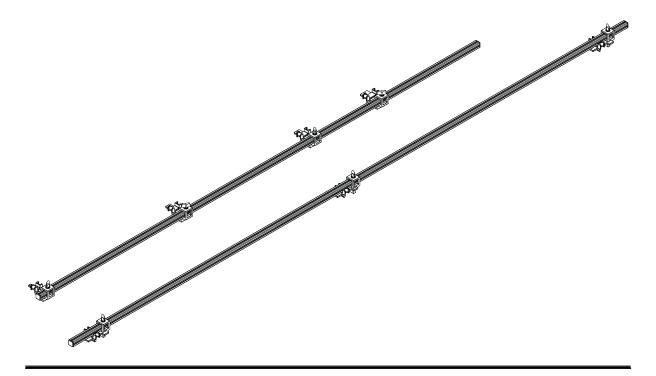
AEROCOMPACT®



Assembly Instruction

COMPACTFLAT SN 2 Mount-

ing gauge

Version : 3.1 Language : English

Important! Read carefully before installation!



Legal Notice

Subject to change due to technical modifications! These assembly instructions correspond to the technical status of the delivered product and not to the current development status at the manufacturer. If pages or parts of the assembly instructions are missing, please contact the manufacturer's address given below. The original language of these assembly instructions is German. Any assembly instructions in another language are a translation of the assembly instructions in German. Therefore, in case of doubt or contradiction, the authentic German version shall prevail. The assembly instructions are protected by copyright. The assembly instructions may not be copied, reproduced, microfilmed, translated or converted for storage and processing in EDP systems, either in part or in full, without the written permission of the company AEROCOMPACT Europe GmbH.

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Creation date

04/2024

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GENERAL

These assembly instructions describe the assembly procedure and must be strictly adhered to. Read these assembly instructions carefully before starting assembly. Personnel must have carefully read and understood these instructions before starting any work. The basic prerequisite for safe working is compliance with all the safety and handling instructions in these assembly instructions. In addition, the local accident prevention regulations and general safety regulations for the area of application of the product apply. Illustrations in these instructions are for basic understanding and may differ from the actual design.

APPLICABLE DOCUMENTS

In addition to this manual, you have received an AEROTOOL project report, planning documents and drawings. Always comply with the instructions and instructions contained therein.

LIMITATION OF LIABILITY

All information and instructions in these assembly instructions have been compiled taking into account the applicable standards and regulations, the state of the art and our many years of knowledge and experience. Liability provisions are stated in our terms and conditions and can be accessed at www.aerocompact.com/downloads.

EXPLANATION OF SYMBOLS

SYMBOLS FOR INSTRUCTIONS



Prerequisites for action instruction



Results of action steps



Step by step action instruction

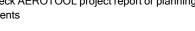


This note provides useful information for smooth install-

SYMBOLS IN ILLUSTRATIONS - ACTIVITIES



Check AEROTOOL project report or planning doc-





Activity by hand



Optional component, optional mounting variation



Visual inspection



Observe right angle

SYMBOLS IN ILLUSTRATIONS - TOOLS



Measuring tape, measure



Pencil, mark



Chalk line



Scissors, tin snips, cut to size



Cordless screwdriver, screwdriver



Use a torque wrench, Observe torque



Use Allen key

SAFETY

The following list serves as an indication of the most common safety hazards that can occur when installing these products. There is no liability for the completeness of the risks presented. A concrete check of the necessary safety measures is to be carried out by an entrusted specialist company prior to installation.

PERSONNEL REQUIREMENTS

Installation may only be carried out by a specialist company and must be carried out strictly in accordance with the installation instructions, the project report and the planning documents. A specialist 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 assembly personnel be under the influence of medication, alcohol, drugs or in any other condition that impairs consciousness (e.g. overtiredness). Trainee personnel may only carry out work under the instruction and supervision of specialist personnel who are authorized to train personnel.

WORKING SAFELY

The contractual partner shall ensure that the necessary safety measures and the relevant provisions of labor law and occupational health and safety law are observed during the assembly of products from AEROCOMPACT Europe GmbH. References by AEROCOMPACT Europe GmbH to the necessity of compliance with security measures are made without quarantee and without claim to completeness and serve only to support the contractual partner. The contractual partner is obliged to inform himself about all relevant regulations concerning occupational safety and to comply with them. AEROCOMPACT Europe GmbH expressly assumes no responsibility here and consequently no liability. Areas below the roof on which work is being carried out must be protected from any falling objects. Where this fails, the affected areas shall be closed to the public and to unauthorized personnel. In case of unsuitable weather conditions, work on the roof must not be continued any longer than necessary - or not started at all. Never carry out assembly work in strong winds. Strong wind exerts enormous forces on the large-area PV modules. There is a risk that a module could be torn off the roof and people could be injured. Never work in wet conditions or at temperatures below the freezing point. Depending on the roof pitch there is a risk of slipping. Only use suitable, intact and tested ladders. Set up and secure ladders according to instructions. Separate rules apply to mechanical climbing aids (elevators, cherry pickers, etc.). Never use the PV mounting system as a climbing aid. Keep sufficient distance from overhead electrical lines. Equipotential bonding between the individual system parts must be carried out in accordance with the respective country-specific regulations. When cutting materials, make sure that there are no burrs, especially at edges and corners, as there is a risk of injury.

BREAKTHROUGH PROTECTION

Skylights, skylights, large vents, etc. usually cannot withstand the weight or impact of a person. Such objects must be secured in a similar way as the edge of the roof. Corrugated fibre cement roofs can be prone to breakthrough over the entire surface. Define walking routes and secure them with load distribution measures. On roofing or roof structures that do not have sufficient load-bearing capacity (e.g. thin sheets, corrugated fibre cement), always work with load distribution aids.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Personal protective equipment is used to protect people from health and safety hazards at work. Personnel must wear personal protective equipment during installation. Personal protective equipment is explained below:



Wear safety goggles when drilling and sawing.



Wear cut-resistant work gloves during installation



Wear safety footwear.



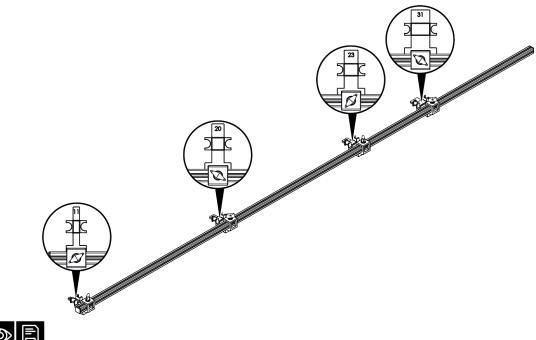
Use fall protection.



Helmets must be worn by all persons working on the construction site.

SET UP MOUNTING GAUGE

PREPARATION





i The mounting gauge can be used to align the base rails and feet. The spacers supplied have different dimensions for the **SN2 PLUS system**; the correct arrangement of the spacers is determined by the project-related planning documents.

Spacer dimensions: 11 mm, 20 mm, 23 mm, 31 mm

Correct choice of spacers for SN2 PLUS system

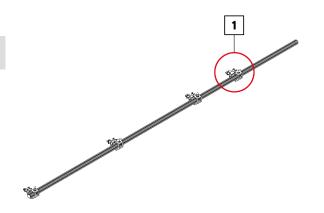


I ATTENTION: The table below shows the order in which the spacers are to be inserted.

The choice of the last spacer (1) depends on the system variant.

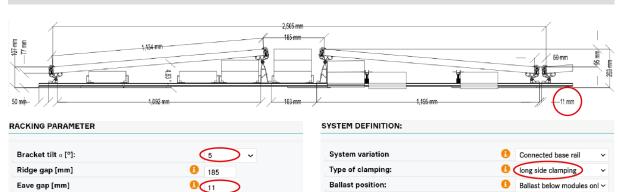
SYSTEM VARIANTS SN2 PLUS

SN2 PLUS long side clamping 5° 11 mm
SN2 PLUS long side Clamping 10° 23 mm
SN2 PLUS short side clamping 5° 20 mm
SN2 PLUS short side clamping 10° 31 mm



SN2 PLUS example Aerotool

i The following example shows an SN2 PLUS 5° system with long side clamping. In this example, the last spacer must be 11 mm.

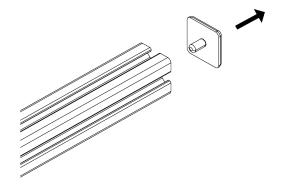


Remove end cap

Static coefficient of friction



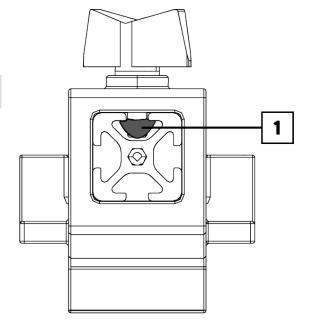
\(\) To insert the spacers, remove the end cap on one side.



Insert spacer



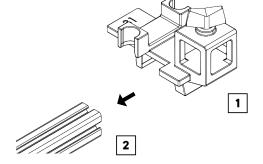
is positioned correctly (see illustration).



Preparation mounting gauge for base rails

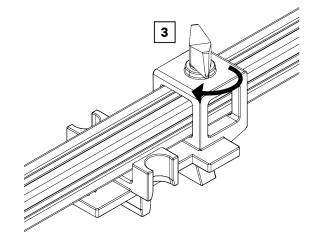


▶ Insert the spacer (1) into the guide rail (2) and move it to the desired position.





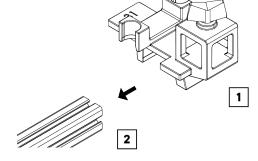
After positioning, tighten the spacer with the locking screw (3).



Preparation of mounting gauge for feet

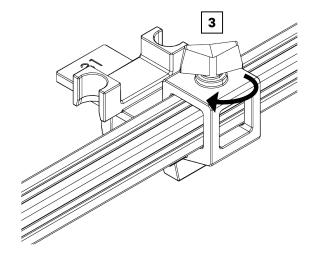


▶ Insert the spacer (1) into the guide rail (2) and move it to the desired position.





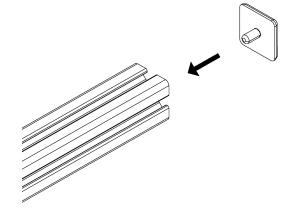
After positioning, tighten the spacer with the locking screw (3).



Reattach the end cap



After inserting all spacers, reattach the end cap accordingly.



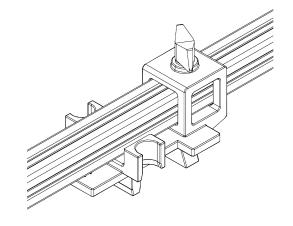
SET UP MOUNTING GAUGE

BASE RAILS

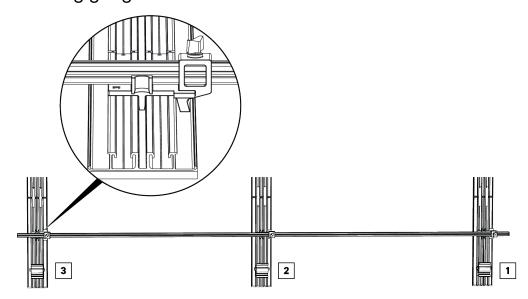
Positioning the spacer



Prepare spacers for aligning base rails.



Use mounting gauge





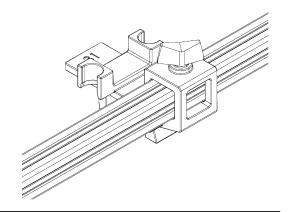
- Determine the distances between the base rails according to the planning documents.
- Page Reposition the mounting gauge, placing the spacer from the base rail (1) against the base rail (3).
- Position the two new base rails.
- i Place the mounting gauge horizontally along the base rails several times to ensure parallelism.
- ${\color{red} \checkmark}$ The mounting gauge is now set and can be used as a gauge for the project.

SN 2 (5° OR 10°)

Positioning the spacer

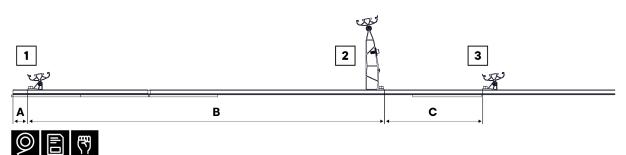


Prepare the spacers for aligning the feet.



Position feet.

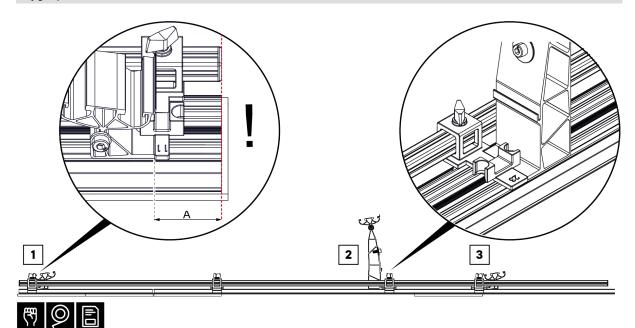
 $\ensuremath{\underline{\bf i}}$ The distance dimensions of the feet must be taken from the planning documents.



▶ Mount the first three feet (1-3) according to the assembly instructions.

Use mounting gauge

I The spacers must be arranged in accordance with the planning documents. It is important to ensure that the mounting jig is positioned flush with the base rail.



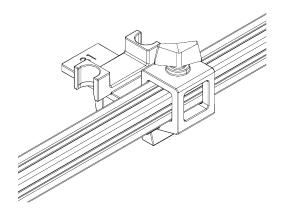
- Place the spacers on the feet (1-3) and tighten them.
- i A spacer always remains non-functional here and is placed between feet (1) and (2).
- The adjusted mounting gauge can now be repositioned by placing the spacer from bracket (1) to bracket (3).
- Position the new front and rear foot and then mount according to the assembly instructions
- ✓ The mounting gauge is now set for the SN 2 system and can be used for the project.

SN 2 PLUS

Prepare spacers

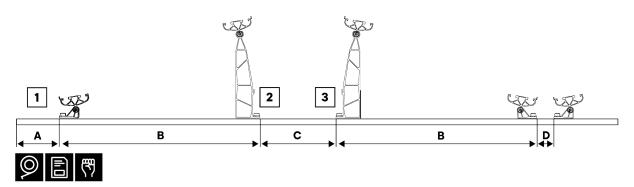


Prepare spacers for aligning feet.



Position feet.

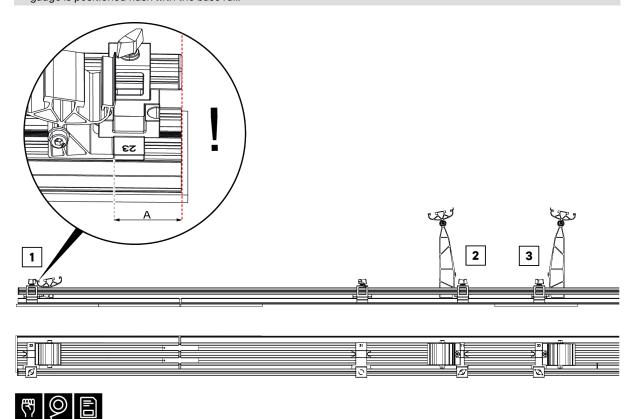
i The distances between the front and rear feet must be taken from the planning documents. **Dimension D** has the dimensions of spacer (1).



▶ Mount the first three feet (1 to 3) according to the assembly instructions.

Use mounting gauge

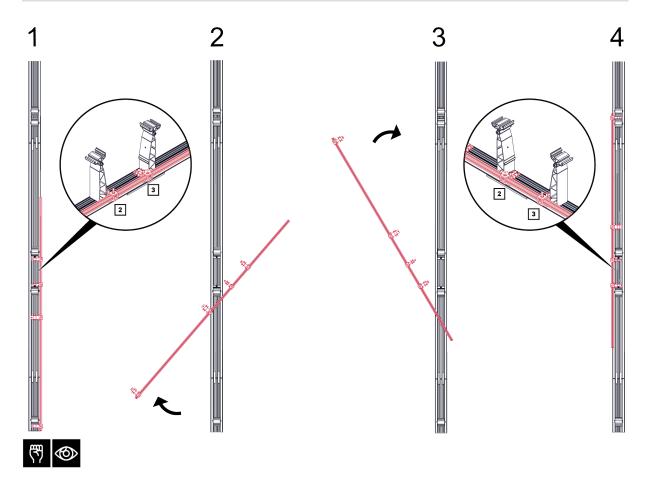
I The spacers must be arranged in accordance with the planning documents. It is important to ensure that the mounting gauge is positioned flush with the base rail.



- Place the spacers on the brackets (1-3) as shown in the illustration and then tighten them.
- i A spacer always remains here and is placed between foot (1) and (2).

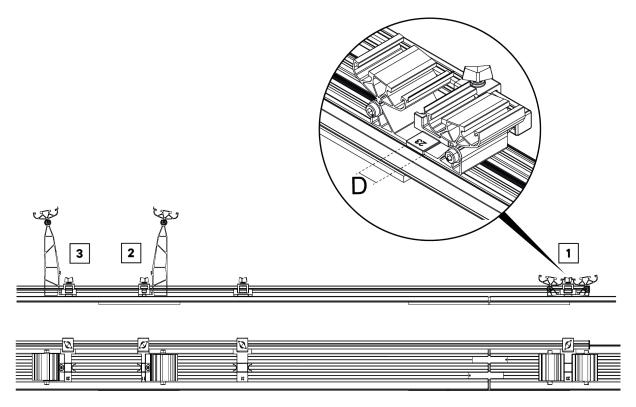
Reposition the mounting gauge

i With the SN 2 PLUS system, the mounting gauge is placed on the opposite side, the following illustration shows the process.



 $oxed{\Sigma}$ Turn the mounting gauge through 180°, leaving the spacers (2) and (3) between the two rear feet.

Mounting the front feet



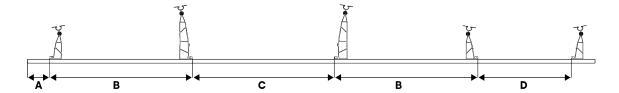


- ✓ The mounting gauge are now set for the SN 2 Plus system and can be used as gauge for the project.

SN2 Q PLUS

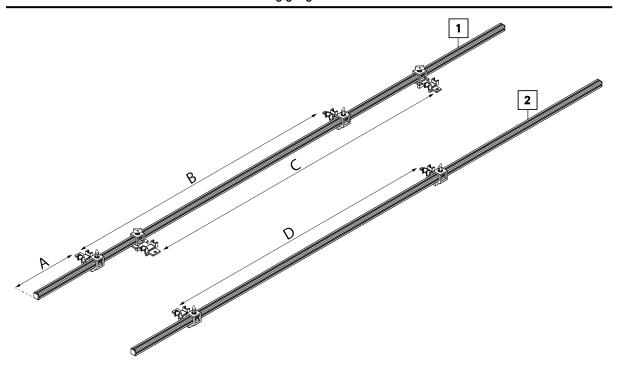
Attach spacers to the mounting gauges

Two mounting gauges are required for positioning the feet in the SN2 Q PLUS system. The distance dimensions of the feet must be taken from the planning documents.





- The dimensions **A**, **B** and **C** are set with the **first mounting gauge**.
- The dimensions **D** are set with the **second mounting gauge**.





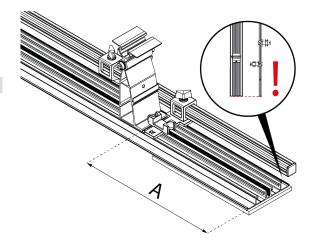
- Insert 4 spacers into the mounting gauge (1) as shown in the illustration. The dimensions of the spacers do not have to be taken into account.
- Insert 2 spacers into the mounting gauge (2) as shown in the illustration. The dimensions of the spacers do not have to be taken into account.
- The mounting gauges are now set for the SN2 Q Plus system and can be used as gauges for the project.

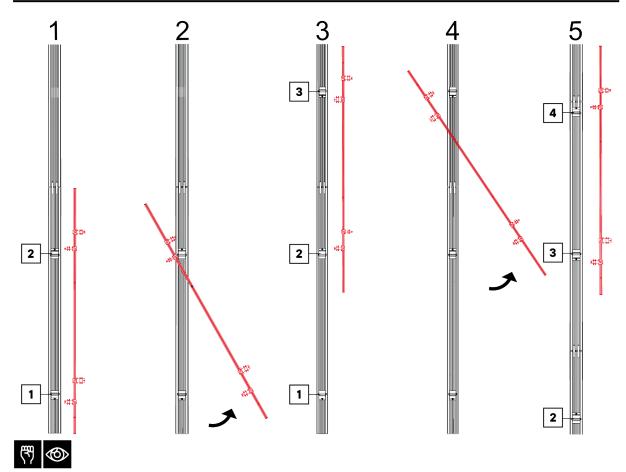
First mounting gauge

i The distances **A**, **B** and **C** are set with the first mounting gauge.



i Align the mounting gauge flush with the base rail.

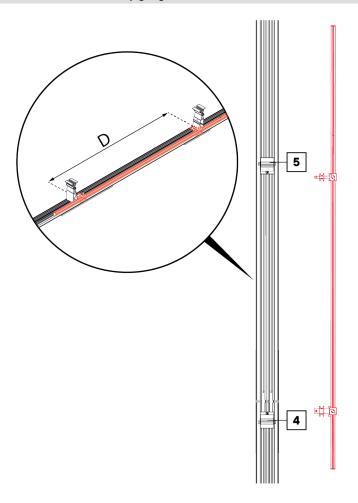




- $oldsymbol{
 m D}$ Place the mounting gauge flush with the base rail and mount the feet (1) and (2).
- Turn the assembly gauge by **180°** and place it on the rear foot (2).
- Mount the rear foot (3) and turn the assembly gauge **180°** again.
- Place the assembly gauge on the rear foot (3) and then mount the front foot (4).
- i The following front foot is mounted to the **second mounting gauge**.

Second mounting gauge

i The distance **D** is set with the **second assembly gauge**.





- Place the assembly gauge on the front foot (4) and mount the following front foot (5).
- The other feet must be mounted in the order already described in this chapter.

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