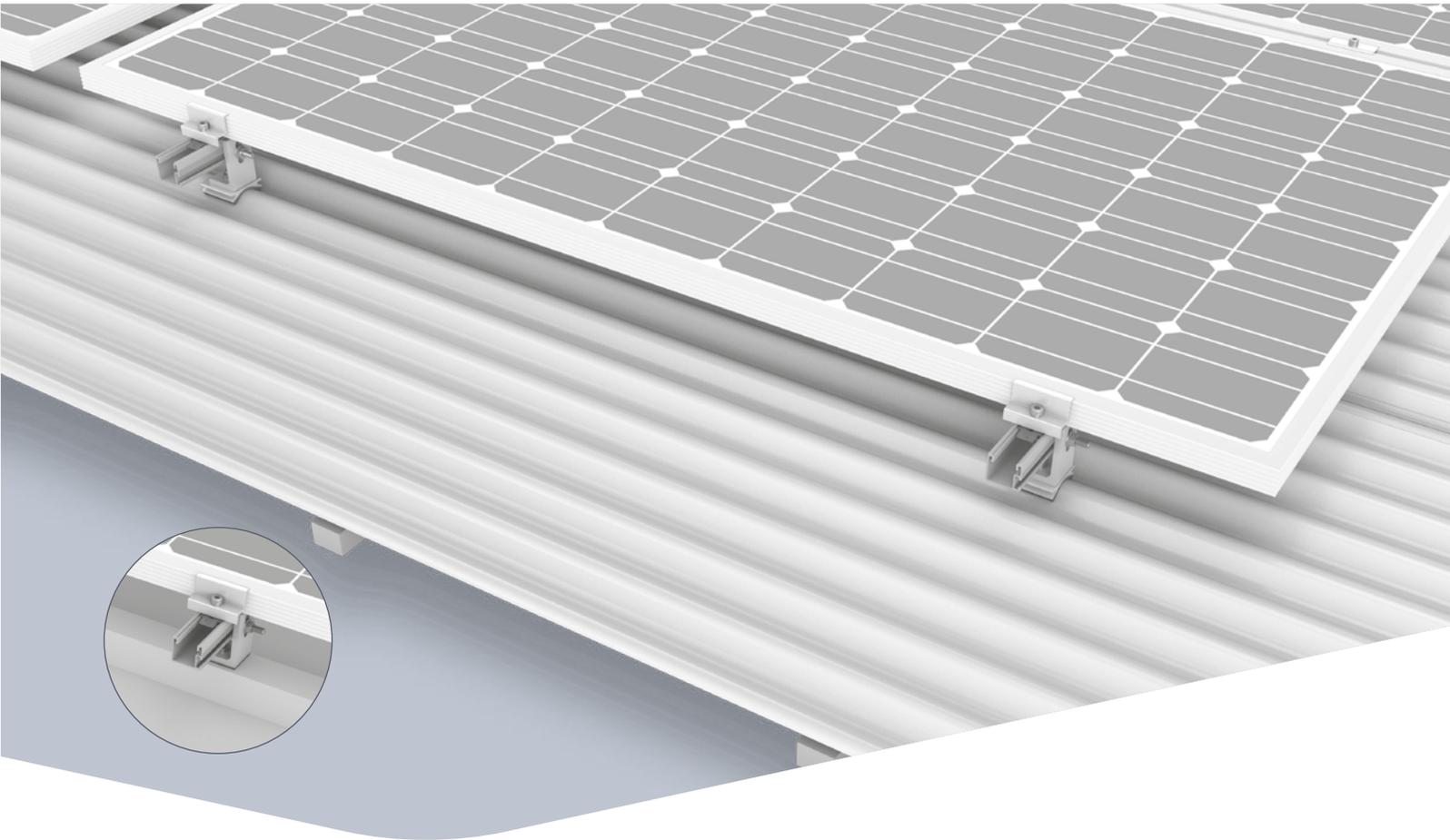




Connecting Strength



Assembly Instructions

SingleRail System

L-Feet

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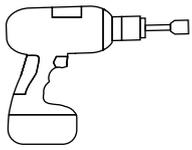
Quality tested - several certifications

K2 Systems stands for secure connections, highest quality and precision. Our customers and business partners have known that for a long time. Independent institutes have tested, confirmed and certified our capabilities and components.

Please find our quality and product certificates under:

[k2-systems.com](https://www.k2-systems.com)

Tools overview



6 mm



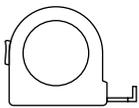
8 mm



6 - 35 Nm



6 mm

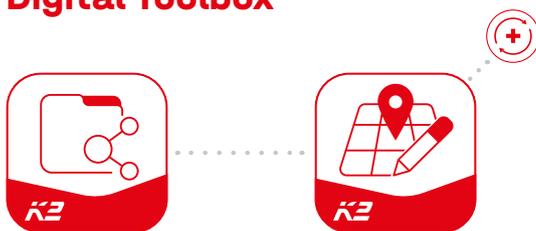


≥ 3.0 m



≥ 6.0 m

Digital Toolbox



Do you already know our digital services? Use our K2 DocuApp now and record the first important data directly at the customer or project site.

Simply transfer the data to our online planning software K2 Base. Here you can plan your project easily, safely and quickly. You receive a detailed project report with assembly plan and static report. The K2+ interface enables seamless project data transfer to the planning tools of well-known inverter manufacturers or yield planning tools.

With the K2 DocuApp, project documentation is done quickly and easily - without any annoying paperwork.

Get started and register now:

docuapp.k2-systems.com →

base.k2-systems.com →

General safety information

Please note that our general mounting instructions must be followed at all times and can be viewed online at [k2-systems.com](https://www.k2-systems.com).

- The equipment may only be installed and operated by qualified and adequately trained installers.
- Prior to installation, ensure that the product complies with on-site static loading requirements. For roof-mounted systems, the roof load-bearing capacity must always be checked.
- National and local building regulations and environmental requirements must be adhered to.
- Compliance with health and safety regulations, accident prevention guidelines and applicable standards is required.
 - Protective equipment such as safety helmet, boots and gloves must be worn.
 - Roofing works must be in accordance with roofing regulations utilising fall protection safeguards when eaves height exceeds 3 m.
 - At least two people must be present for the duration of the installation work in order to provide rapid assistance in the event of an emergency.
- K2 mounting systems are continuously developed and improved and the installation process may thereby change at any time. Prior to installation consult our website at [k2-systems.com](https://www.k2-systems.com) for up-to-date instructions. We can send you the latest version on request.
- The assembly instructions of the module manufacturer must be adhered to.
- Equipotential bonding/grounding/earthing between individual parts is to be performed according to country specific standards, as well as national laws and regulations.
- At least one copy of the assembly instructions should be available on site throughout the duration of the installation.
- Failure to adhere to our general safety and assembly instructions and not using all system components, K2 is not liable for any resulting defects or damages. We do not accept liability for any damage resulting in the use of competitor's parts. Warranty is excluded in such cases.
- German law shall apply excluding the UN Convention on CISG. Place of venue is Stuttgart. Our General Terms of Business apply.
- If all safety instructions are adhered to and the system is correctly installed, there is a product warranty entitlement of 12 years! We strongly recommend reviewing our terms of guarantee, which can be viewed at [k2-systems.com](https://www.k2-systems.com). We will also send this information on request.
- Dismantling of the system is performed in reverse order to the assembly.
- K2 stainless steel components are available in different corrosion resistance classes. Each structure or component must be carefully checked for possible corrosion exposure.

The following guidelines apply



The SingleRail system with L-Feet can be used without further testing by K2 Systems in the following standard conditions. To calculate maximum distances between supports we recommend using our calculation tool K2 Base. The system is also suitable for higher requirements. However, if a value exceeds the standard conditions, please contact K2 Systems.



Planning with K2 Base

We recommend registration with our online software K2 Base for the planning. In five steps, you can plan the right assembly system and get a construction recommendation, parts list and the structural analysis report. Simply register and start planning:

base.k2-systems.com



Roof requirements

- Roof coverings: Corrugated or trapezoidal sheet metal, corrugated fibre cement roof sheets
- Substructure
 - Steel profiles thickness ≥ 1.5 mm
 - Timber profiles $\geq 47 \times 47$ mm or 2×2 "
- The sufficient holding force of the roof covering at the support or substructure must be ensured on site.
- Roof pitch $5^\circ - 75^\circ$
- Sufficient load reserves to support the PV system.

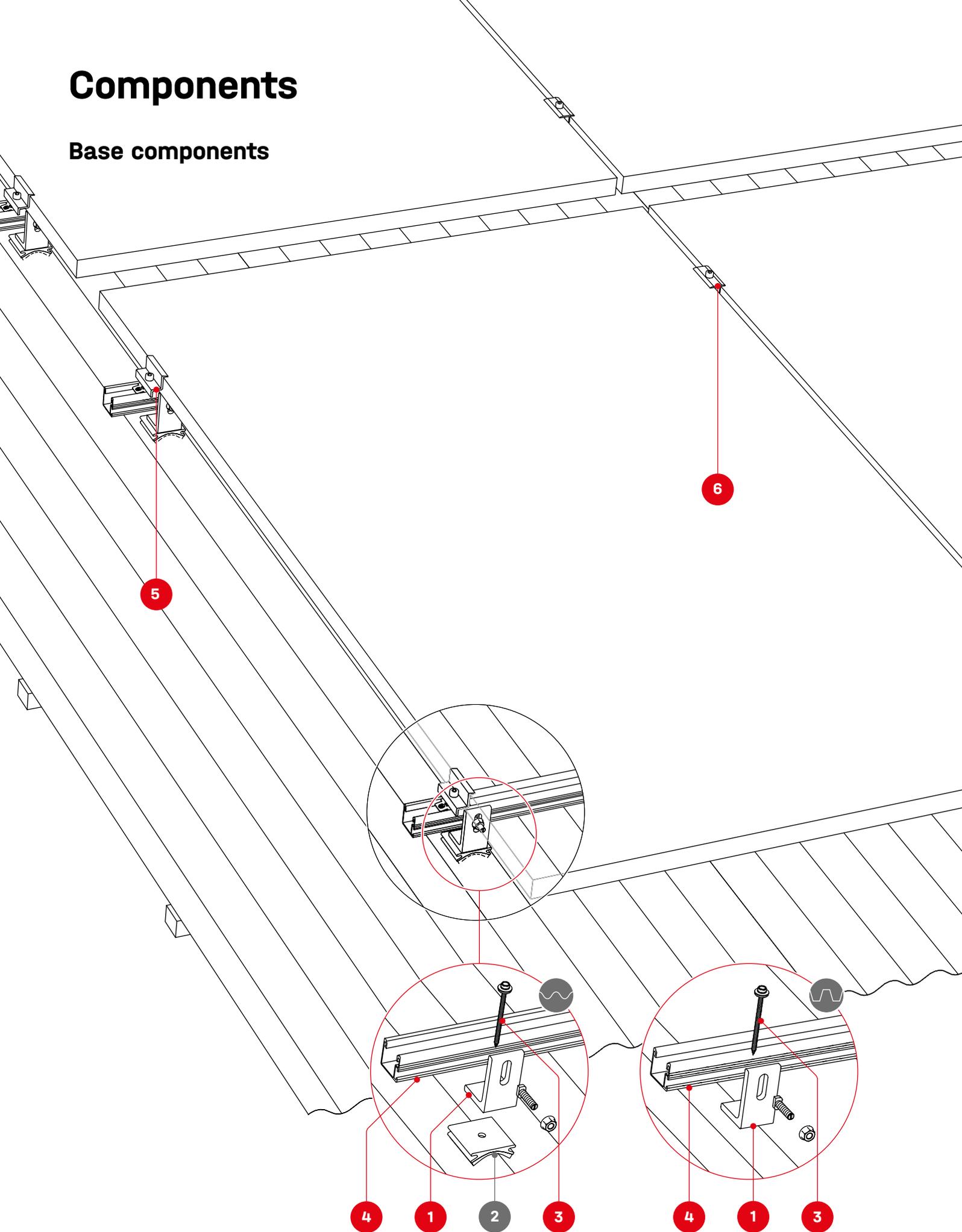


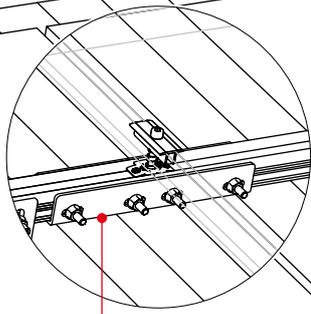
Important mounting instructions

- On-site general standards and regulations for lightning protection must be observed and consultation with a specialist to create a lightning protection concept is recommended (use lightning protection clamp if necessary).
- We recommend a thermal separation after maximum of 15 m.
- A minimum mounting distance of 50 mm from the end of the rail / rail joint to the module frame.
- Tightening torque for all module clamps 16 Nm
- Ensure the module manufacturers recommendations in terms of permissible clamping range and module installation are met.
- Do not step on rails or roof fixings, as these are not climbing assists.
- The screws for timber profiles require a min. embedment depth of 39 mm. The screws for steel profiles can be used with insulated roof panels up to 100 mm core thickness. The suitable screw length (90/110/150/190 mm) has to be chosen accordingly. No specific tightening torque given by the screw manufacturer. The EPDM of the sealing washer shall be slightly squished.
- Dimensioning and positioning of the sheet metal and wood screws subject to the European Technical approvals (ETA) of the screw manufacturers (for Europe please refer to ETA 10/0200).

Components

Base components



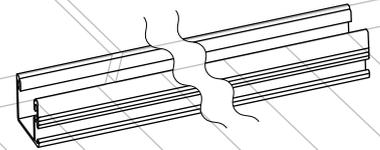


7

1 2004076
SingleRail L-Foot Set

3 Item no. project specific
Metal or wood screw
with sealing

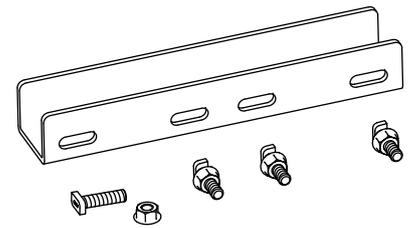
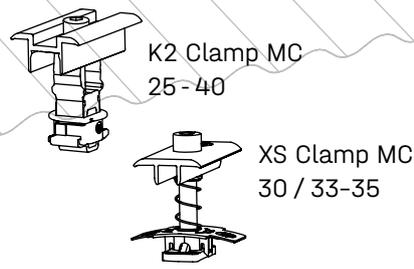
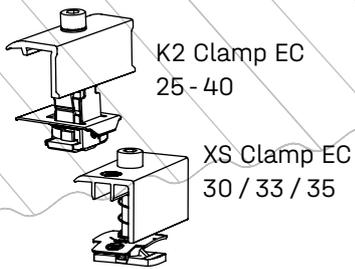
4 Item no. project specific
SingleRail Light /36 / 50



5 Item no. project specific
Module end clamp

6 Item no. project specific
Module middle clamp

7 2001976
SingleRail 36 Connector Set



Optional components

2 2004100
L-Foot corrugated adapter

2003145
Climber 36/50 Set

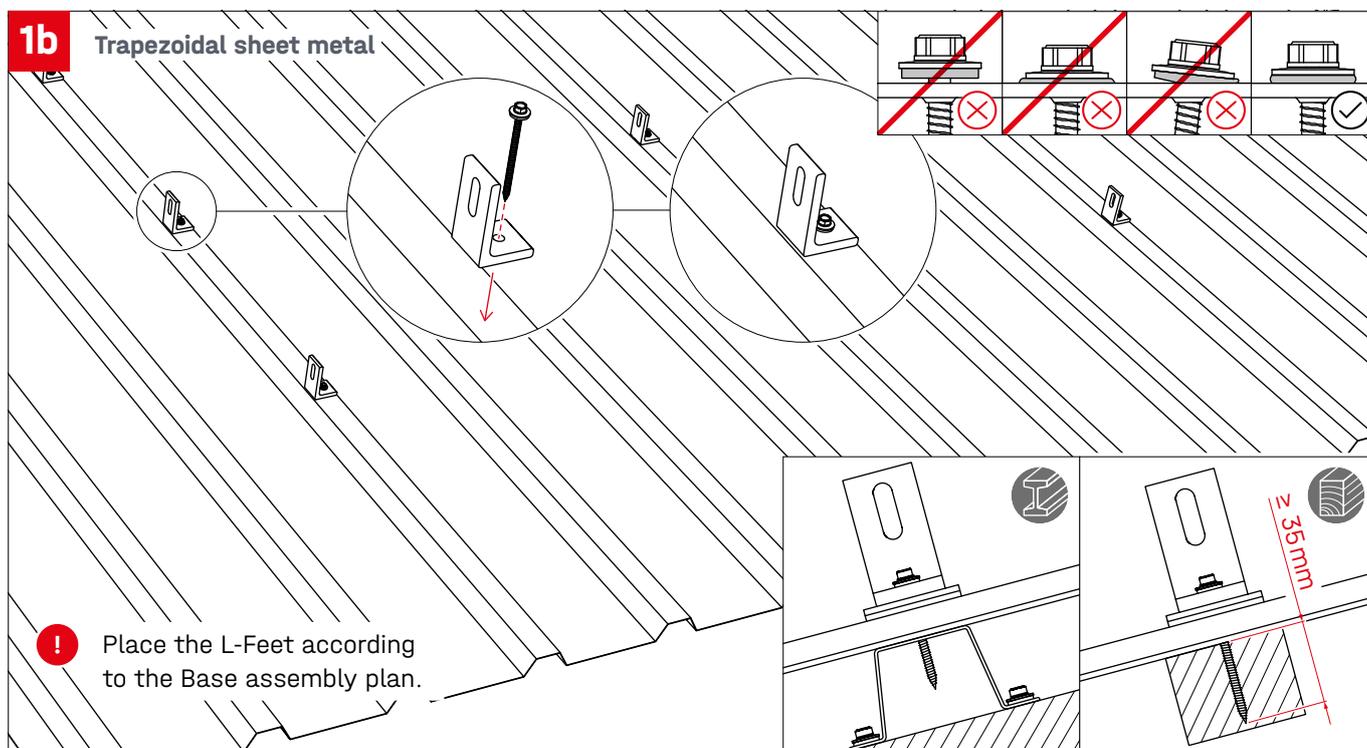
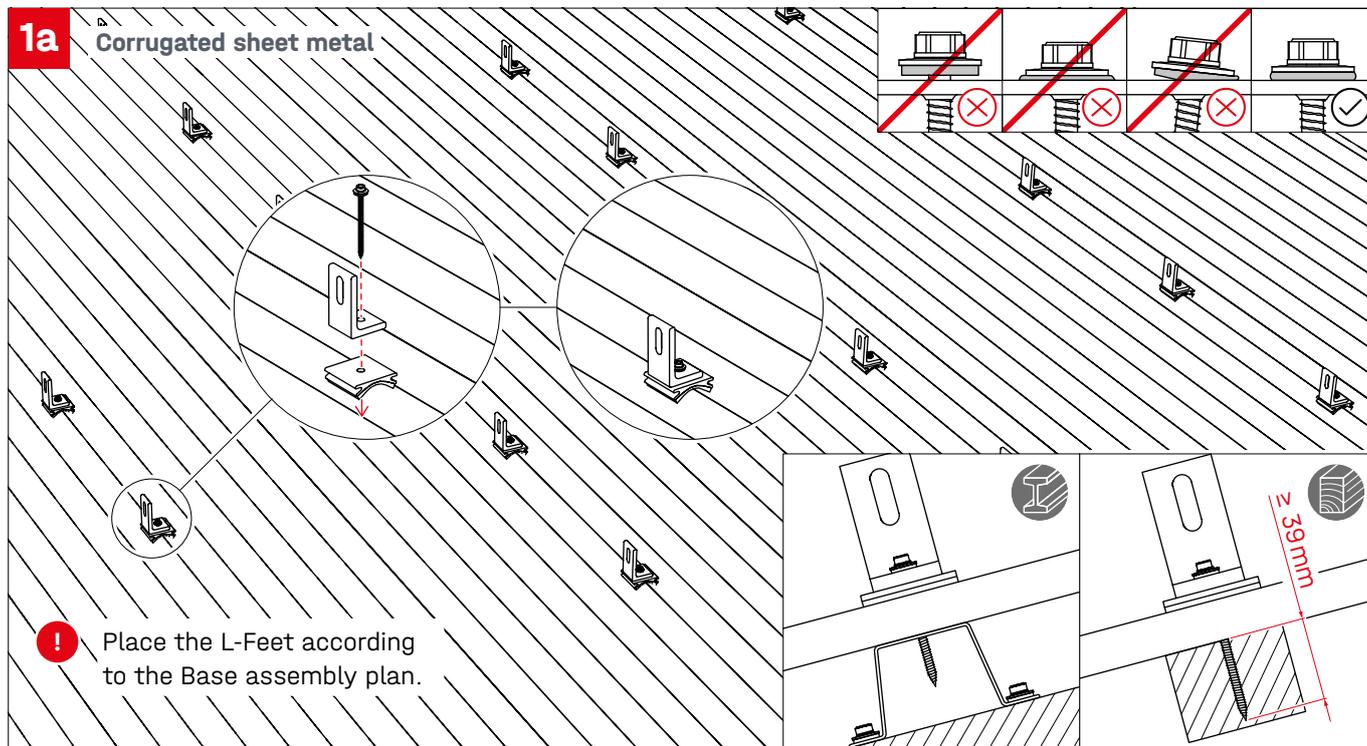
2004231
TerraGrif QL

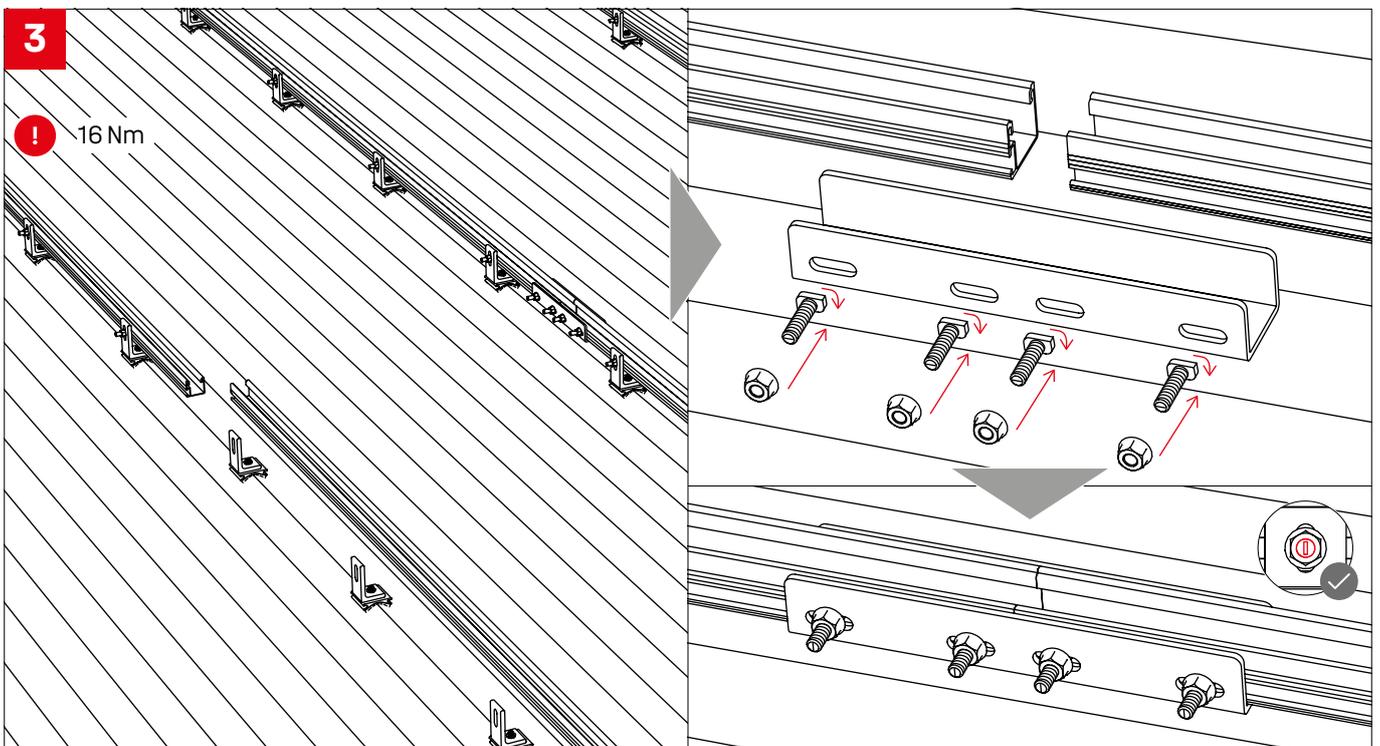
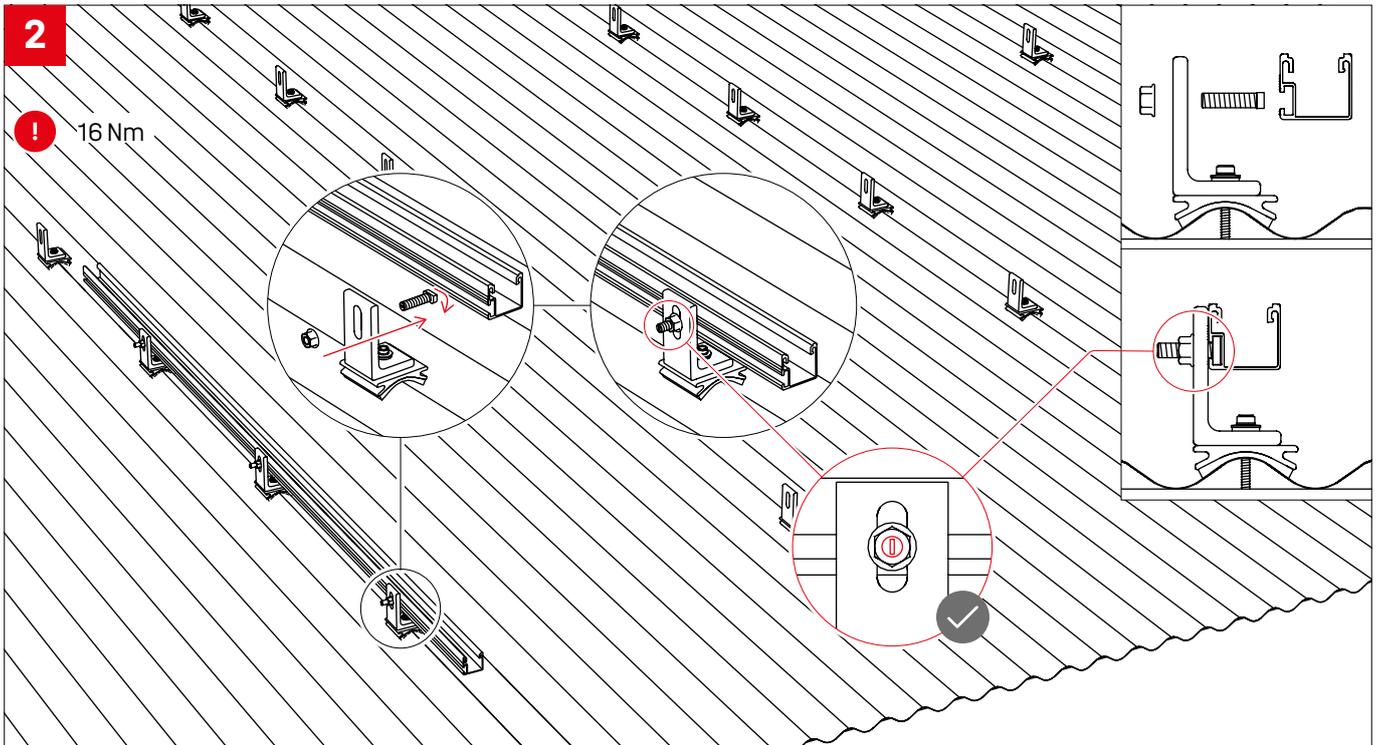
2001881
TerraGrif K2SZ

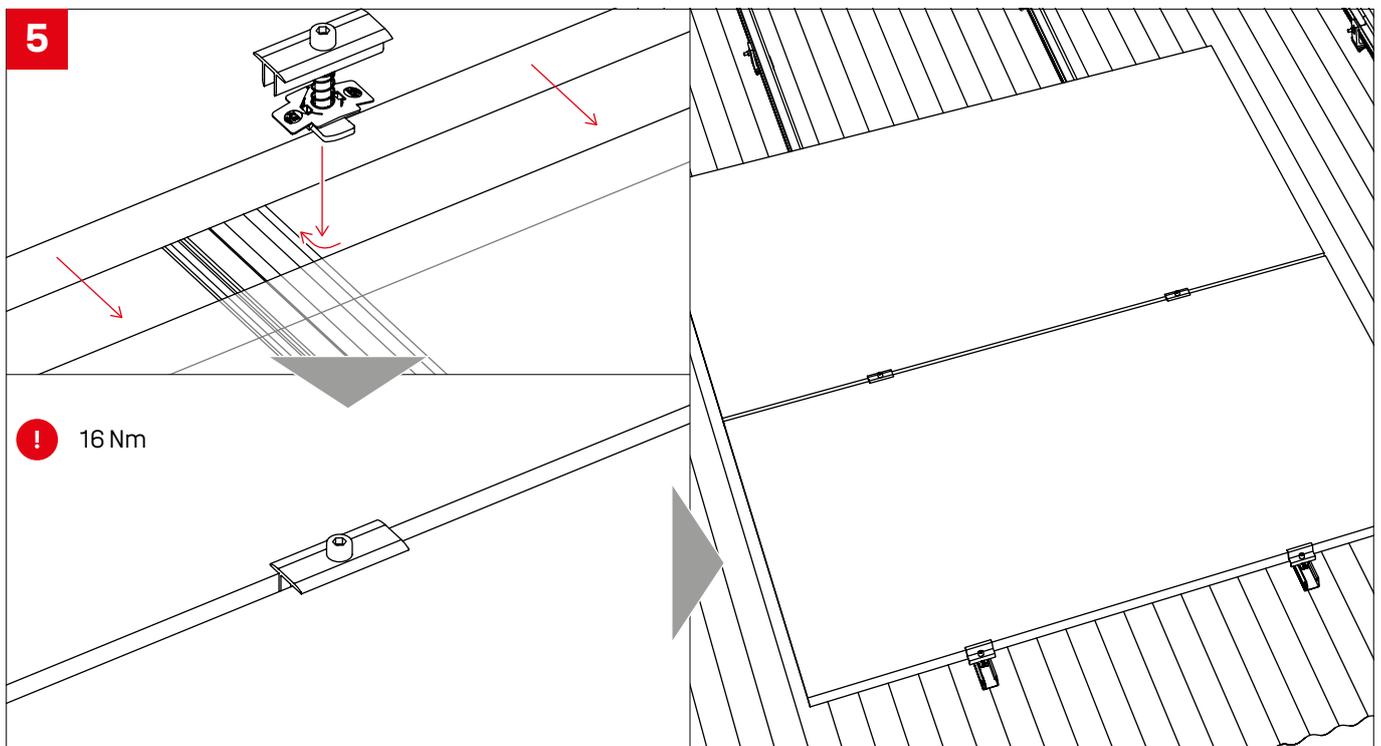
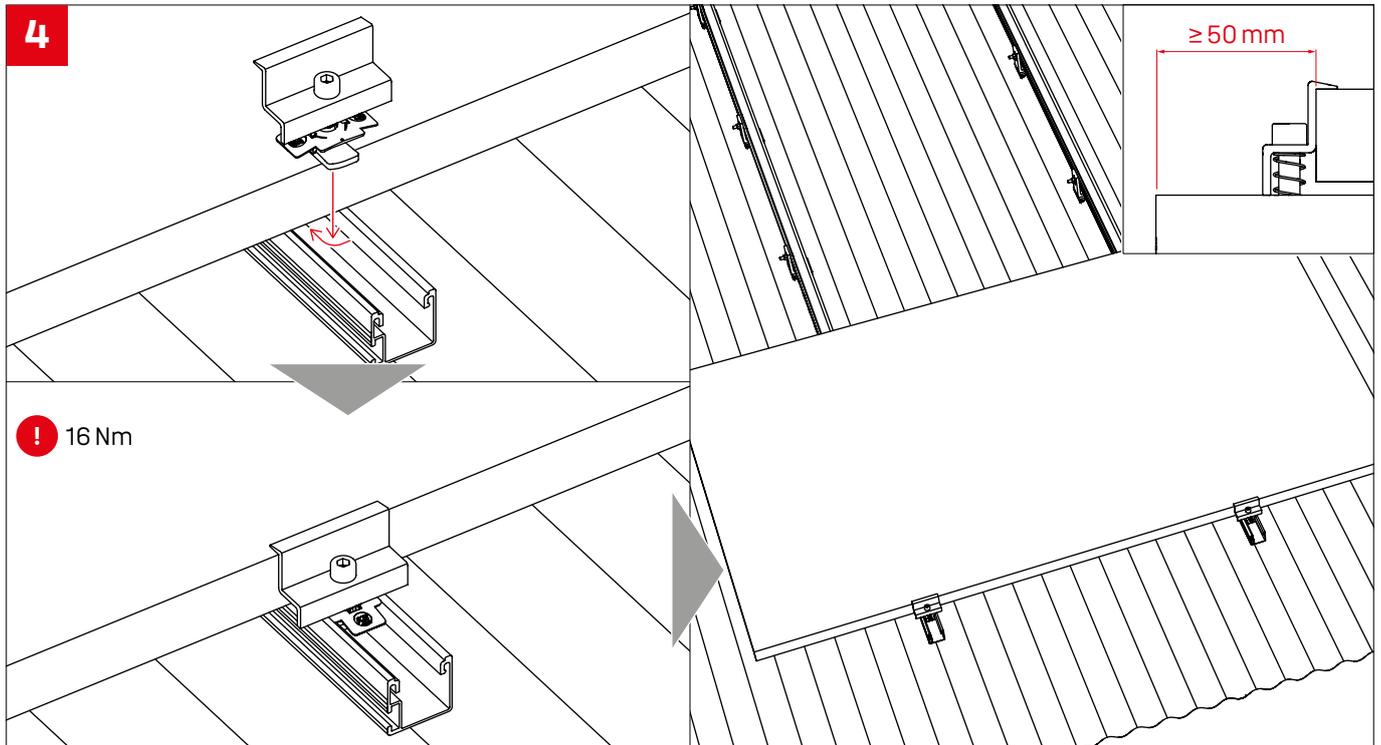


Assembly

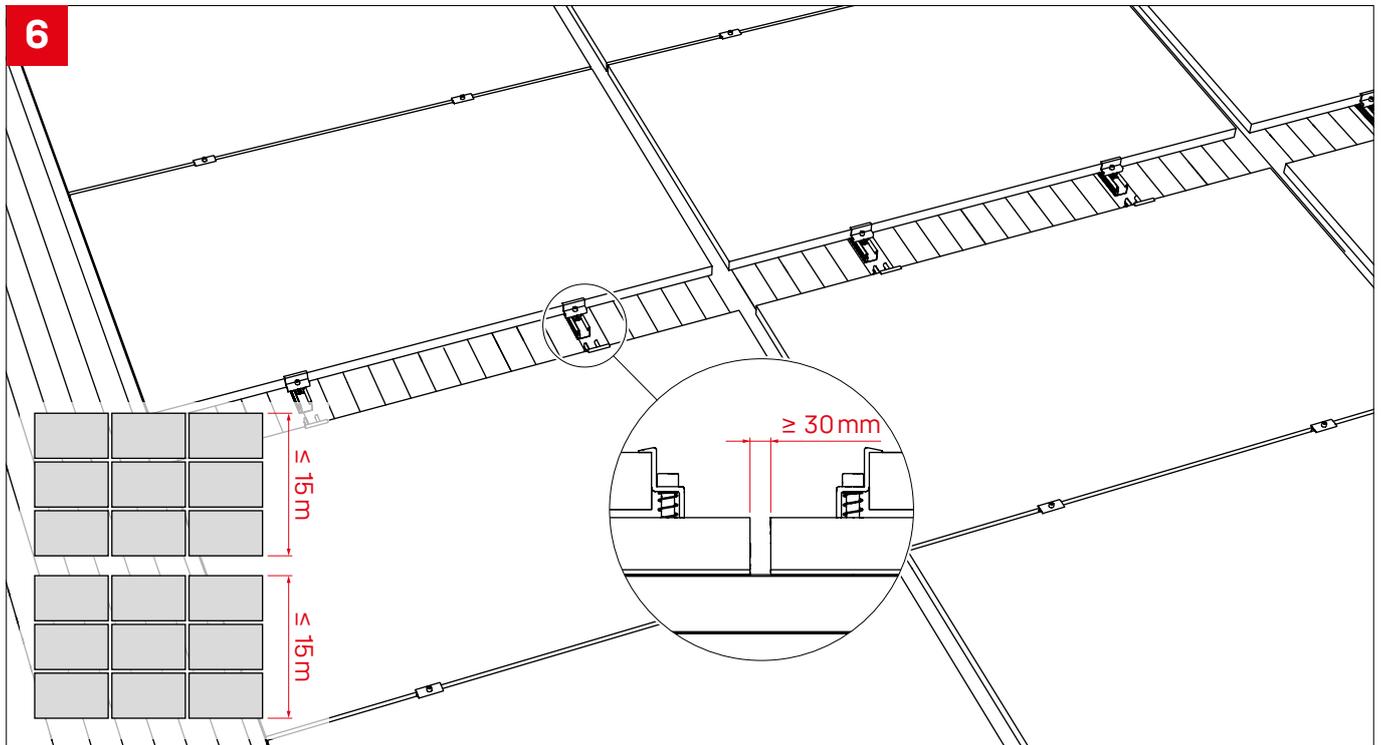
Vertical rails and landscape orientation of modules



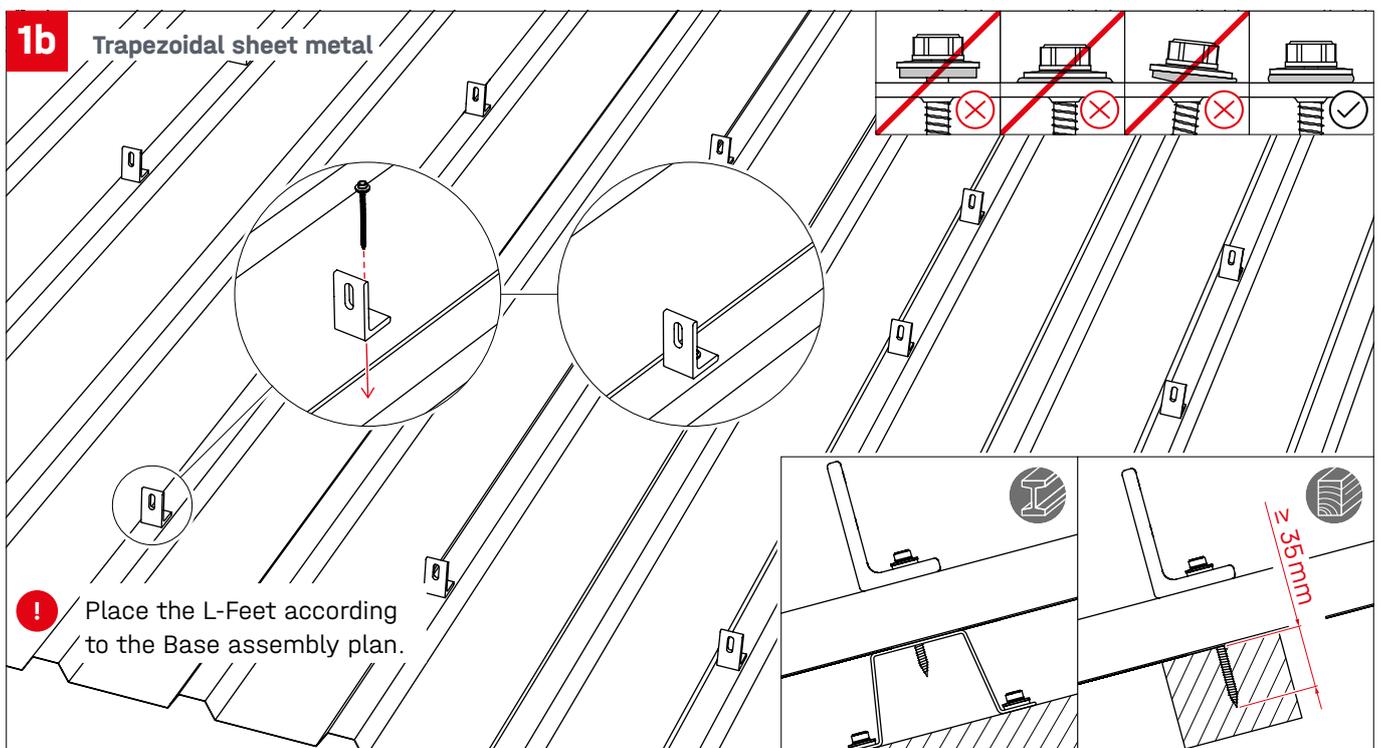
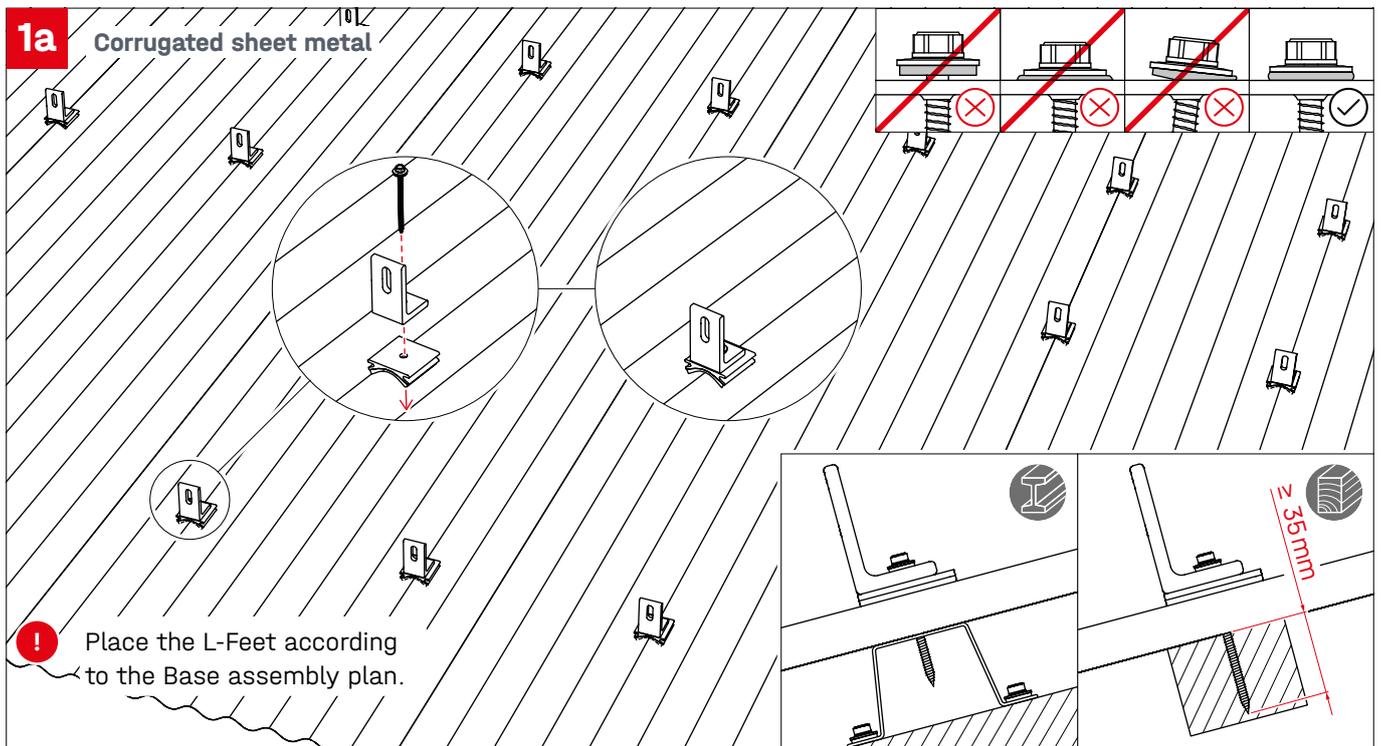


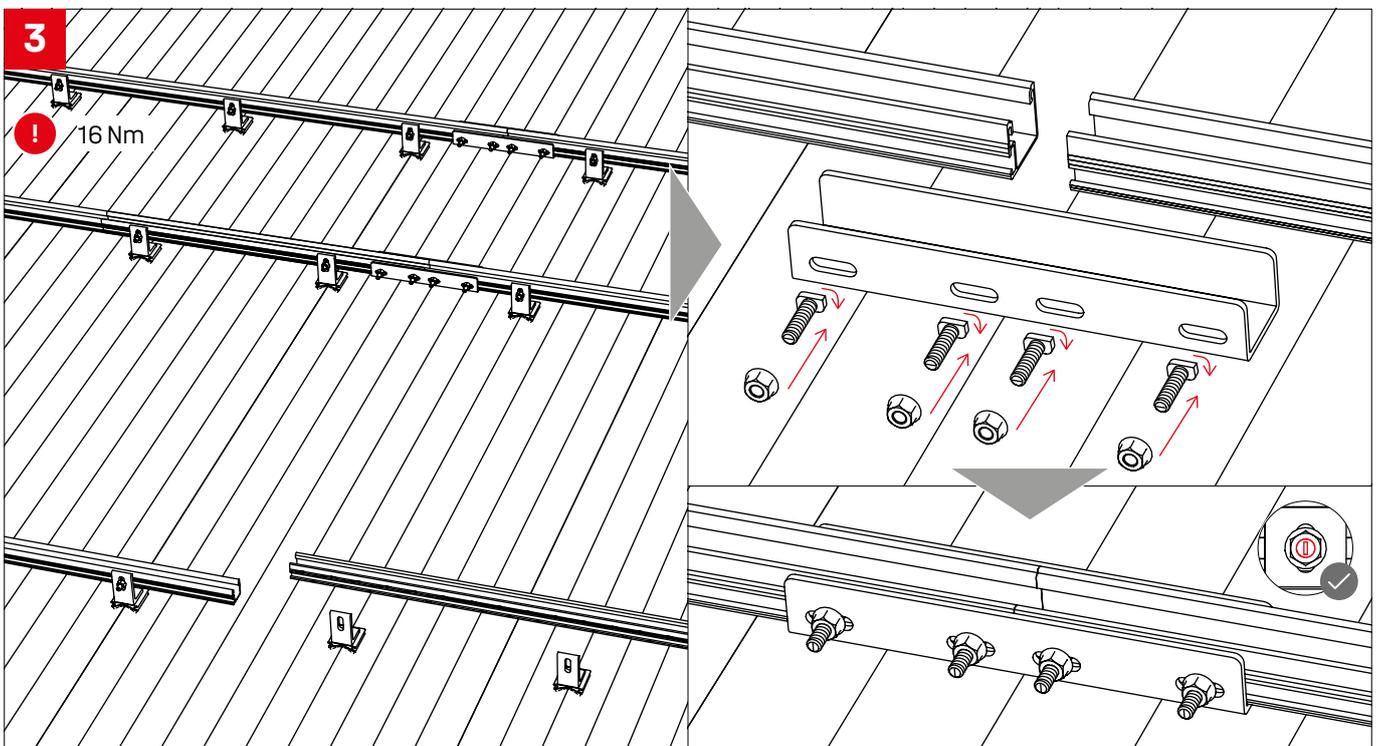
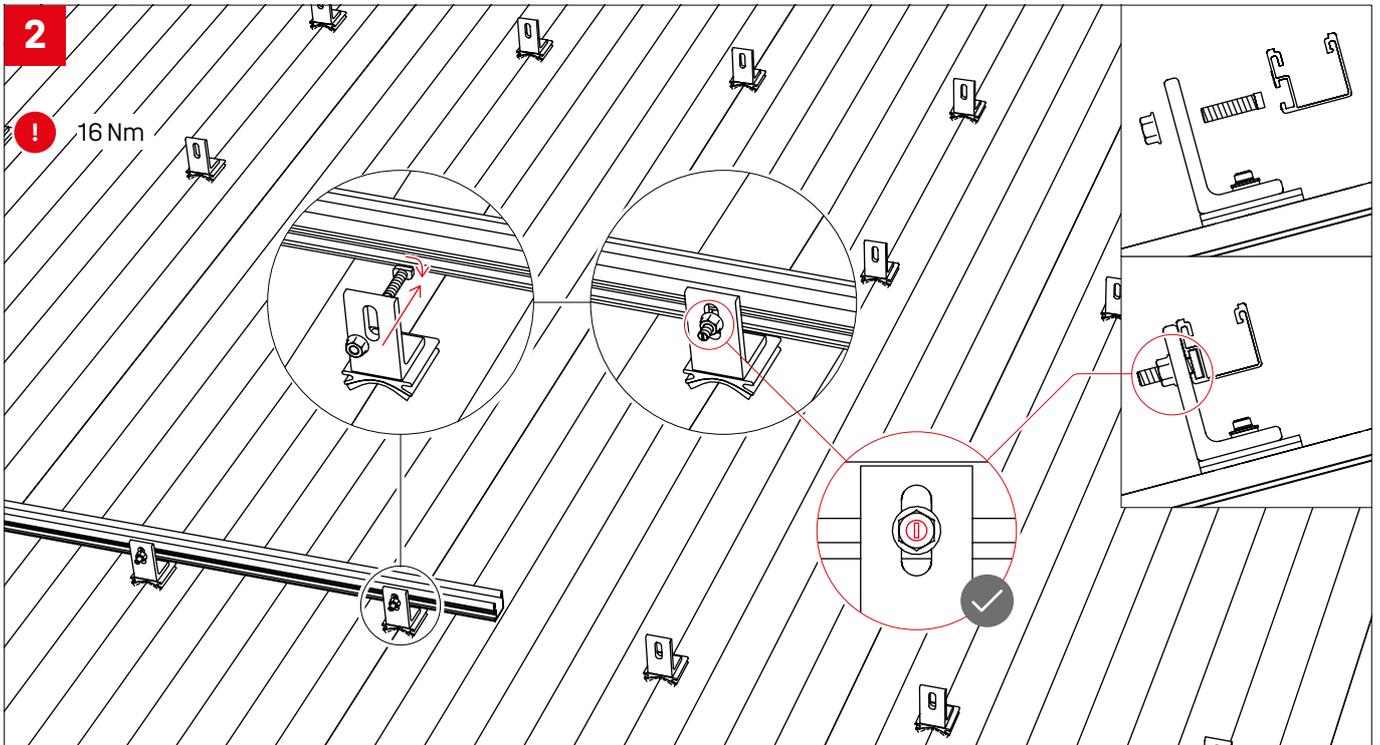


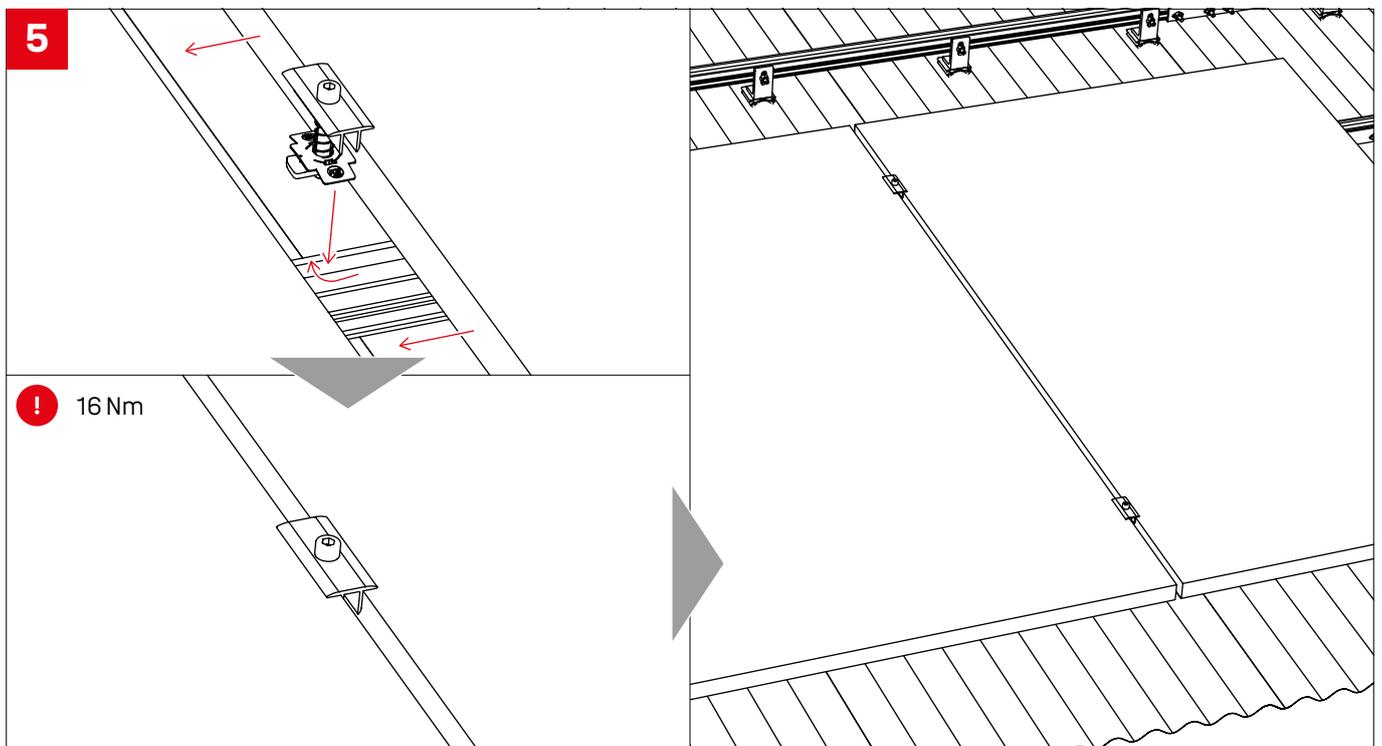
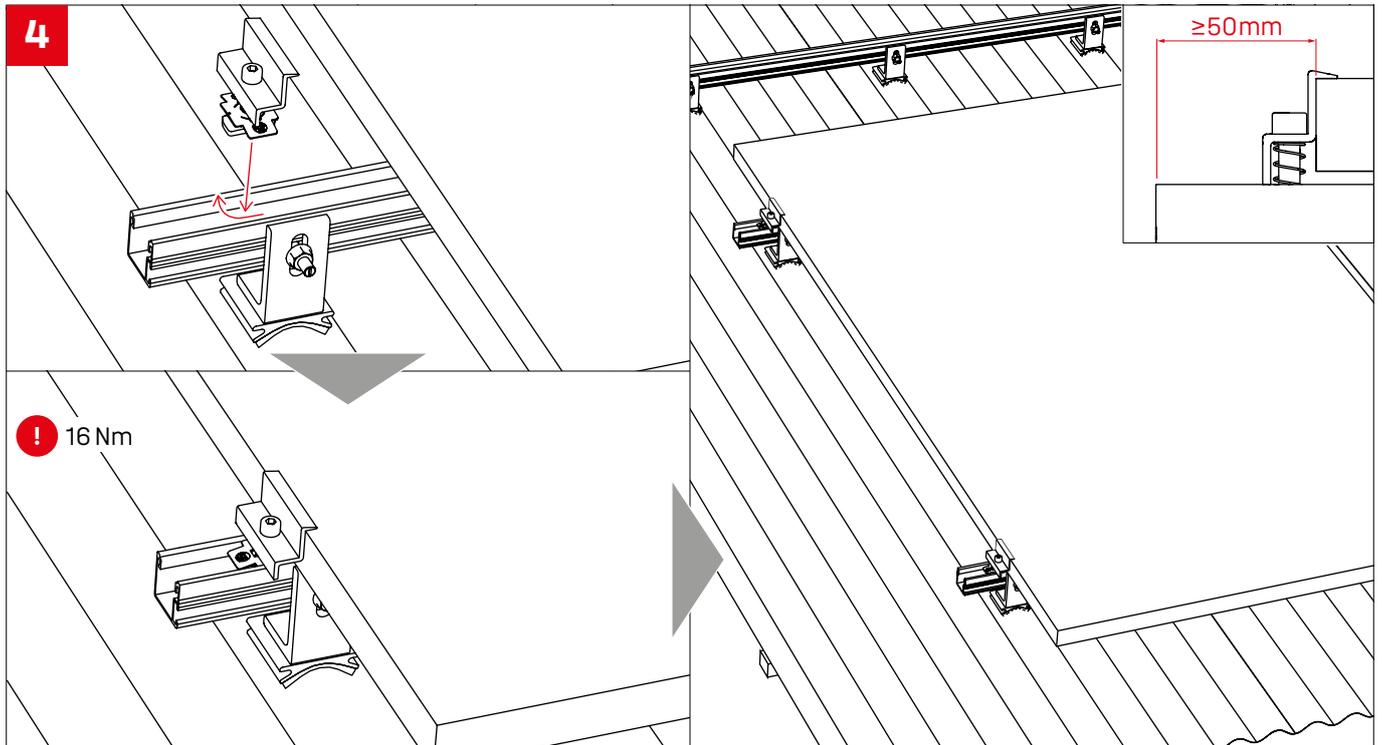
Landscape: Thermal separations



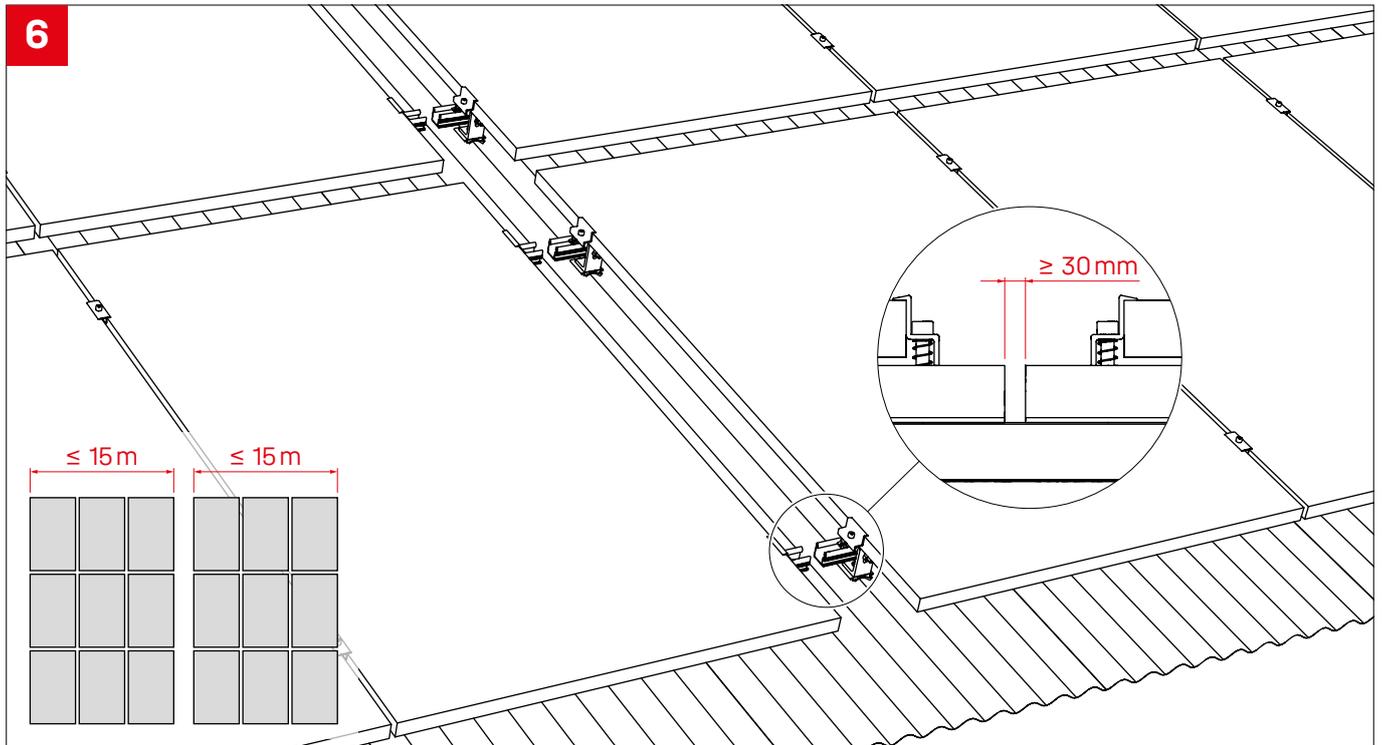
Horizontal rails and portrait orientation of modules





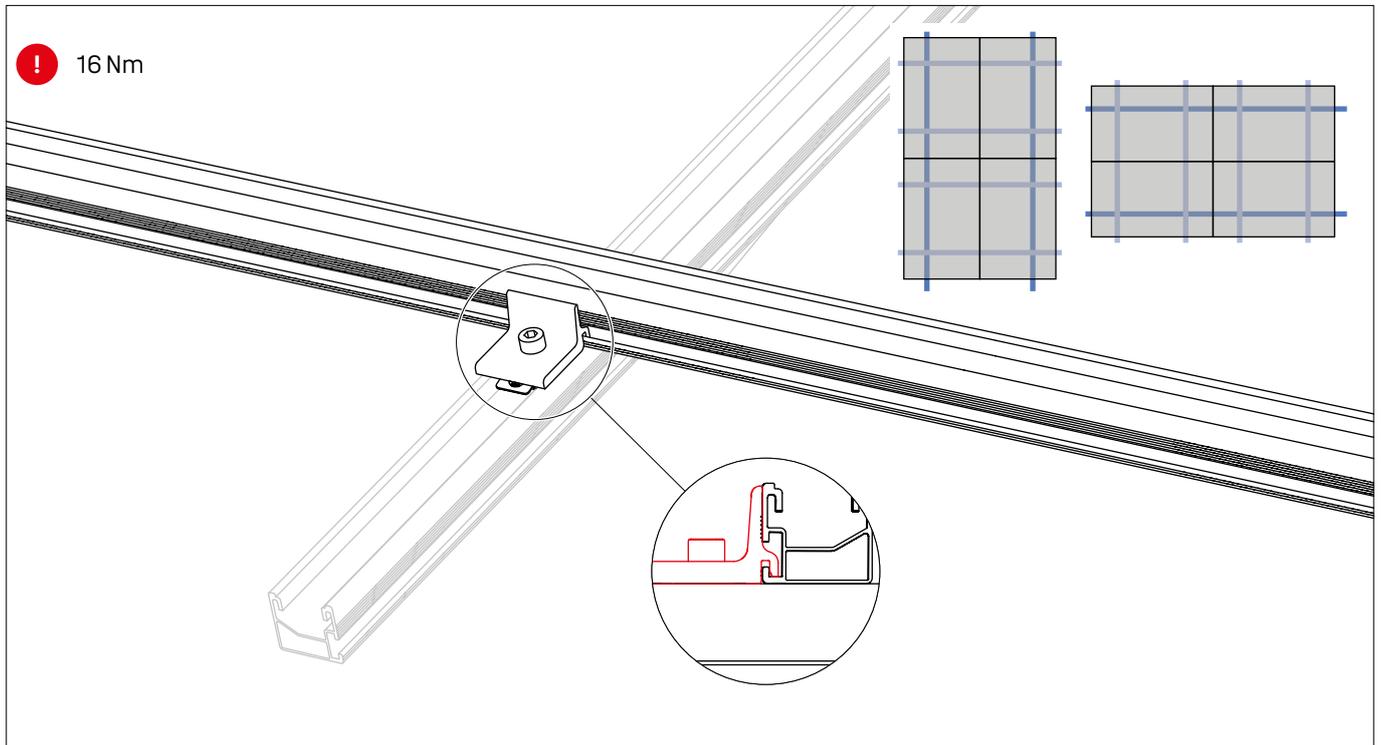


Portrait: Thermal separations

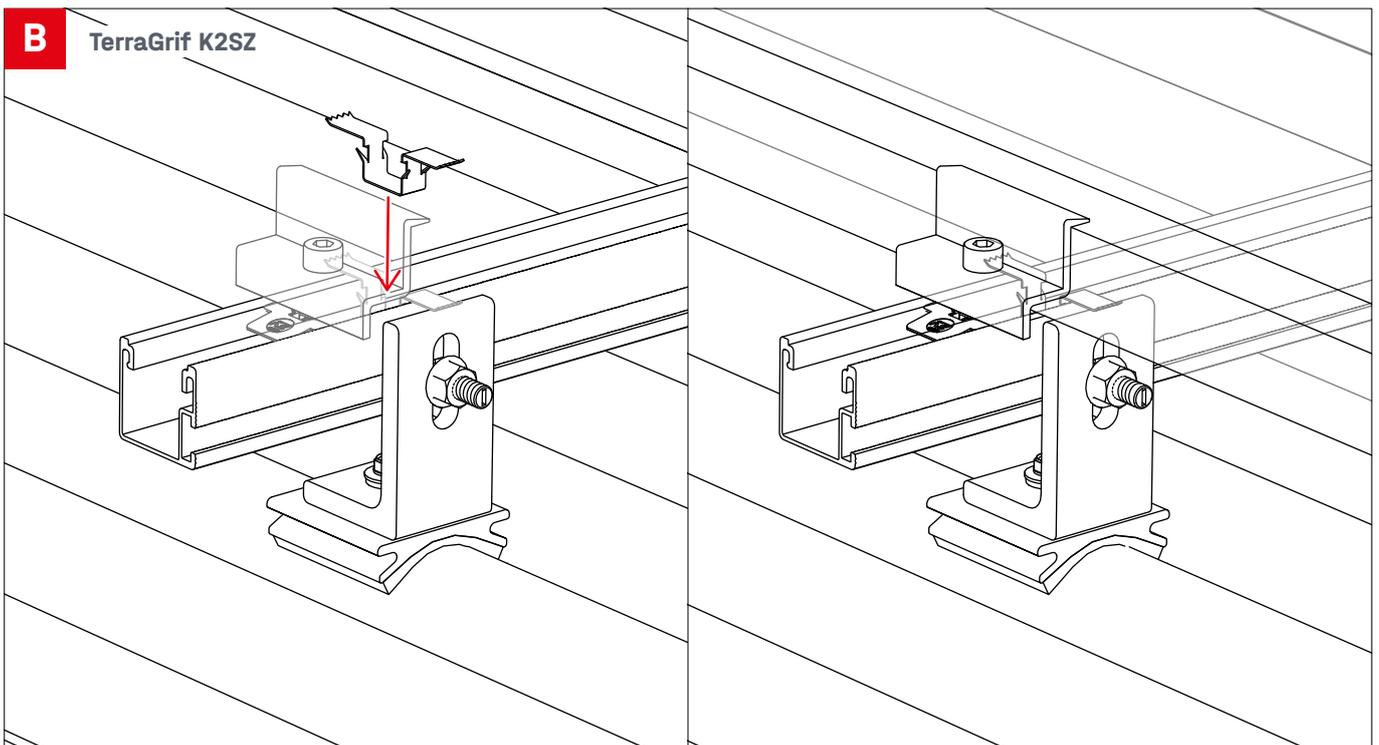
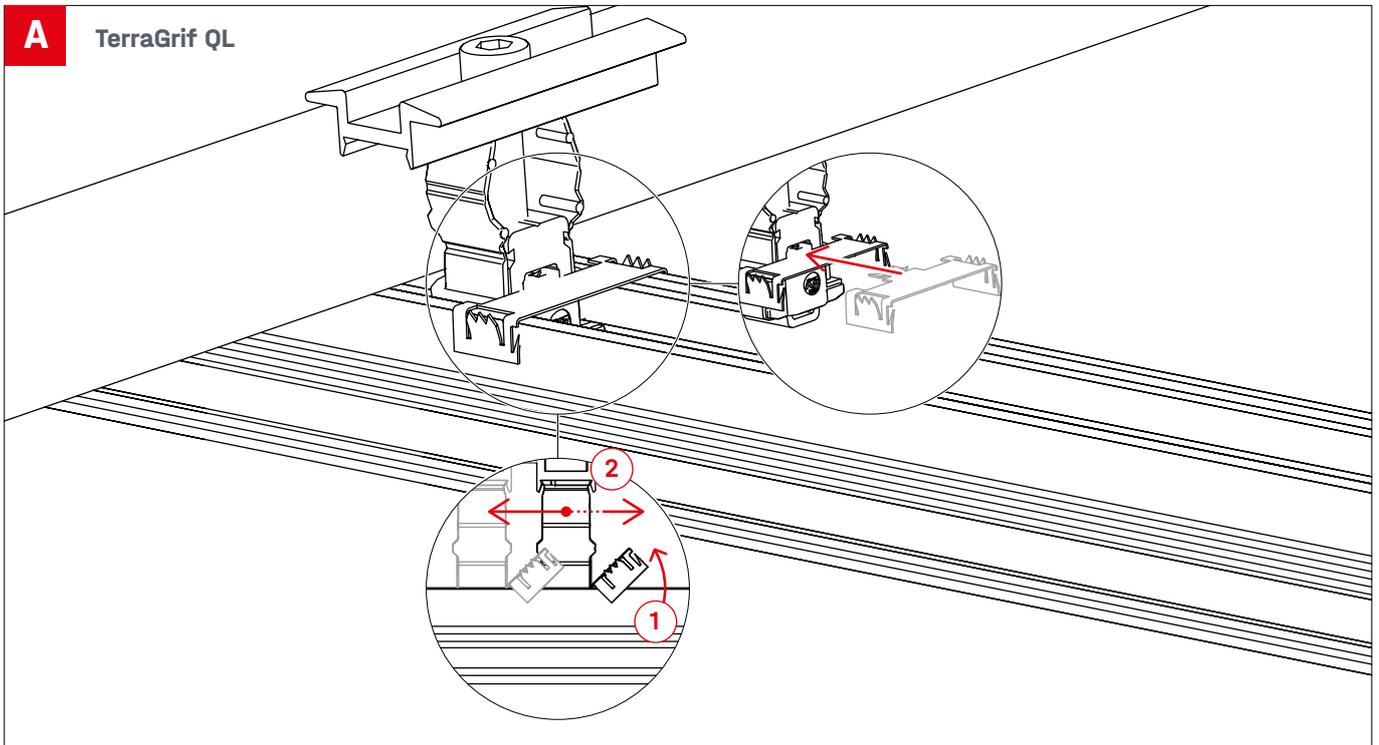


Optional assembly steps

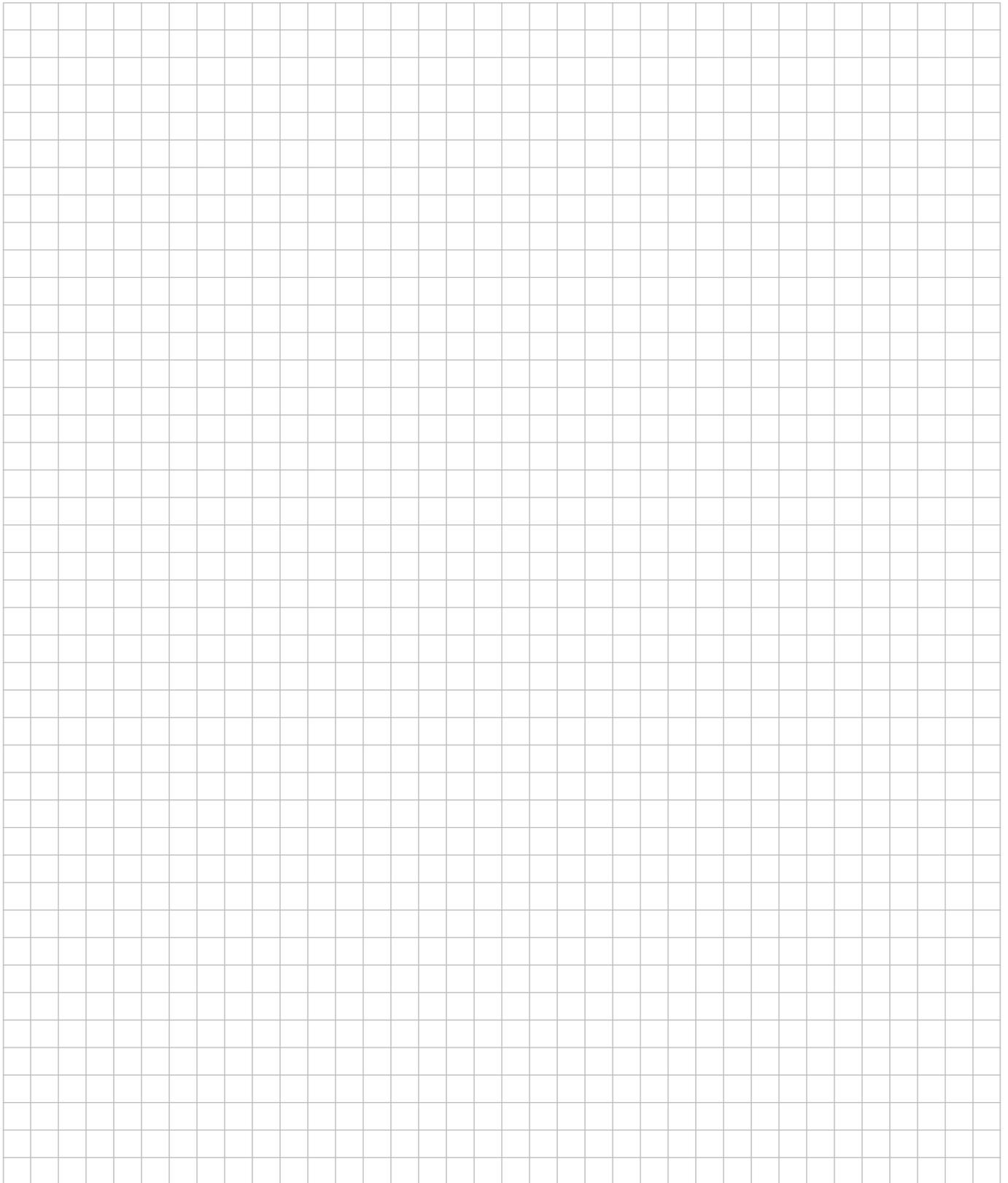
Double-layer mounting rails

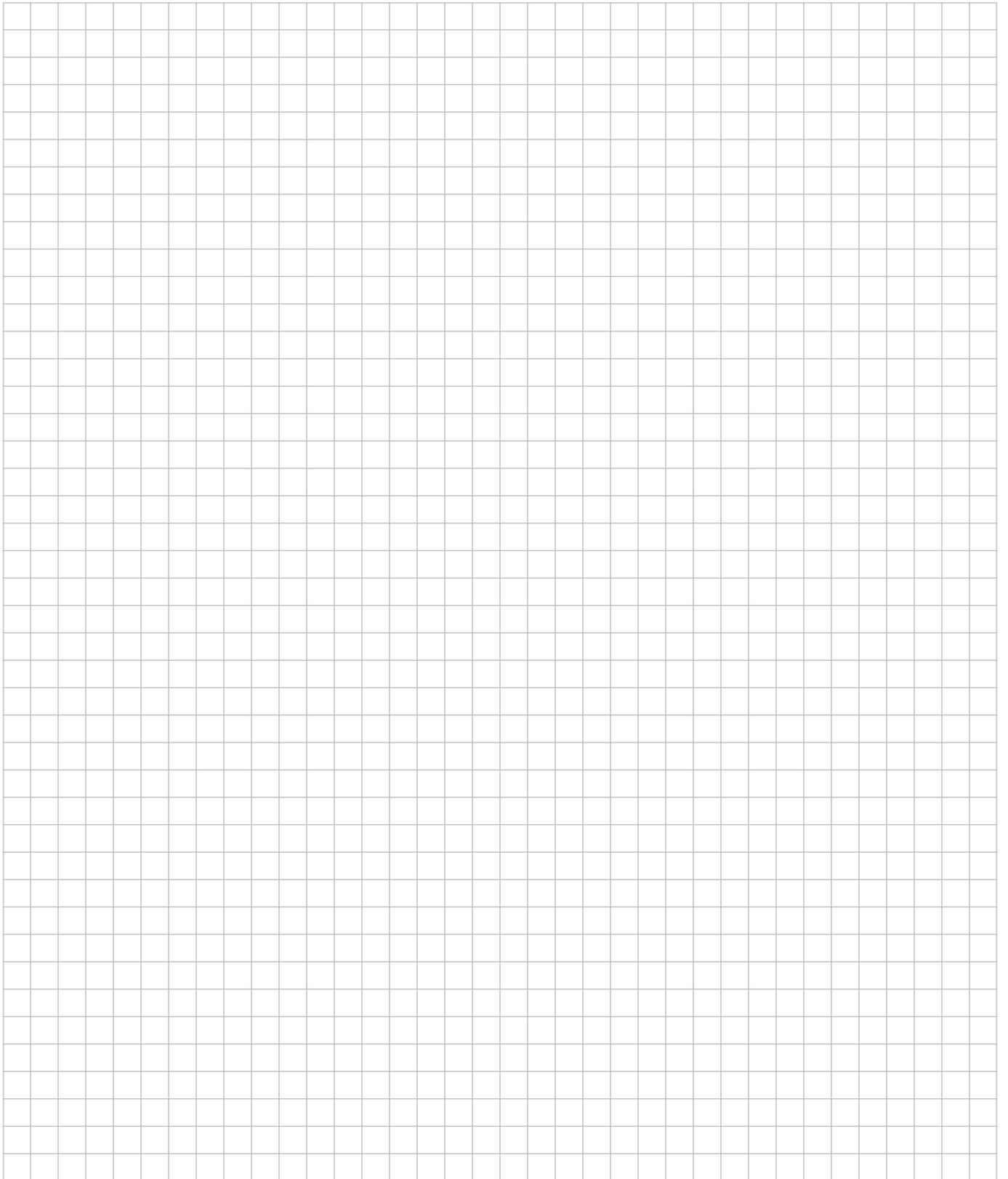


Module frame grounding



Notes







Connecting Strength

Thank you for choosing a K2 mounting system.

Systems from K2 Systems are quick and easy to install. We hope these instructions have helped. Please contact us with any questions or suggestions for improvement. Our contact data:

- k2-systems.com/en/contact
- **Service Hotline: +49 7159 42059-0**

Our General Terms of Business apply. Please refer: k2-systems.com

K2 Systems GmbH

Haldenstraße 1 · 71272 Renningen · Germany
+49 (0) 7159 - 42059 - 0 · info@k2-systems.com · k2-systems.com

SingleRail L-Foot Assembly en V3 | 0326 · Subject to change · Product illustrations are exemplary and may differ from the original.