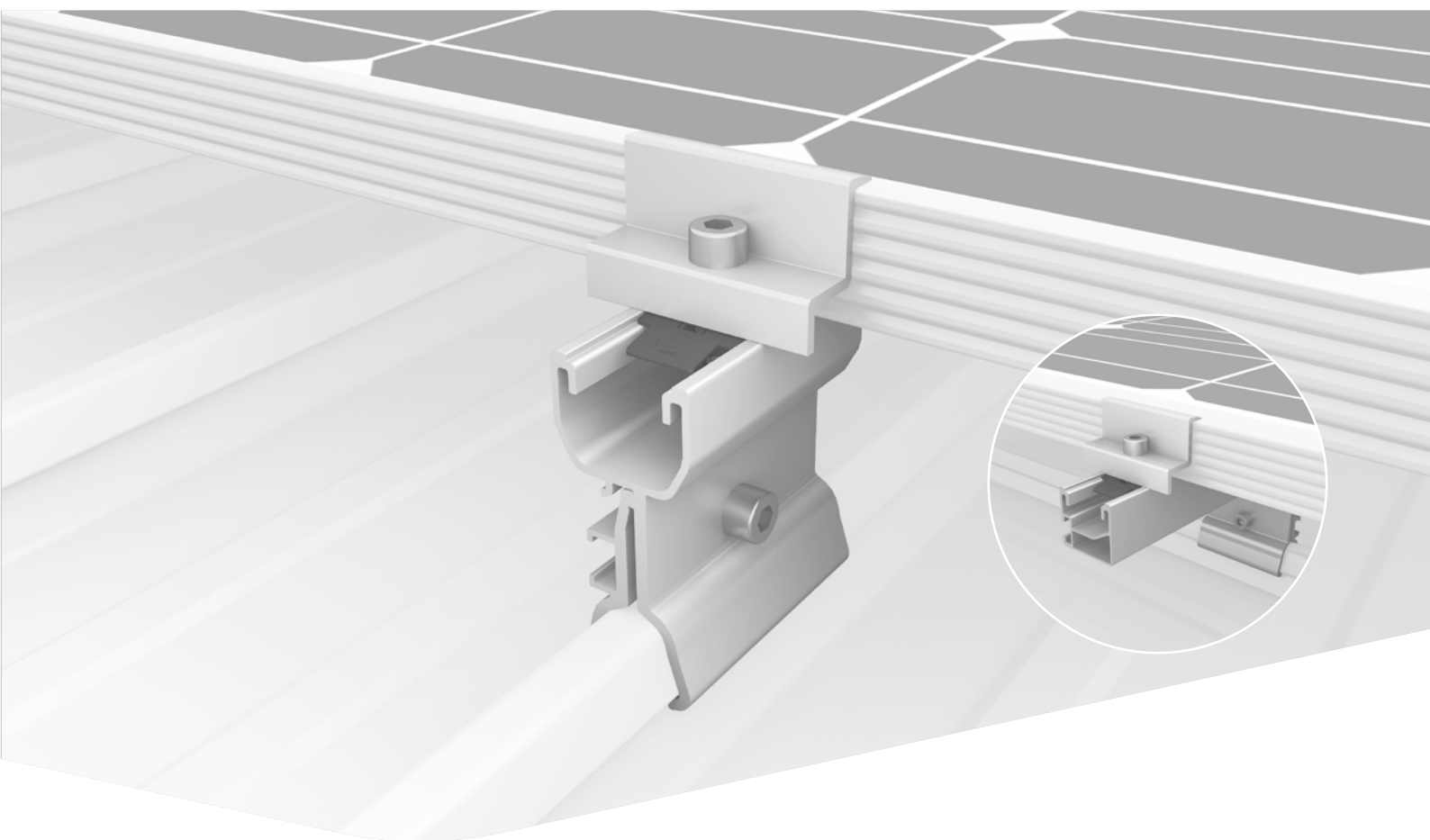




Connecting Strength



Assembly instructions

Universal KL-Clamp System

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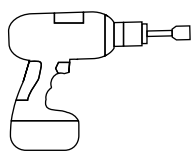
Quality tested - several certifications

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/en/technical-information

Tools overview



6 mm



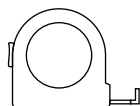
8 mm



6 - 35 Nm
(4.5 - 22.2 lb-ft)



6 mm



≥ 3.0 m



≥ 6.0 m

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 www.k2-systems.com/en/technical-information 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.
- K2 Systems GmbH reserves the right to exclude liability in case of disregard of our General Safety Instructions as well as in case of installation or mounting of components of a competitor.
- 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/en/warranty-terms-and-conditions](https://www.k2-systems.com/en/warranty-terms-and-conditions) 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



This System can be used without further testing by K2 systems in the following standard conditions. It is also suitable for higher requirements. However, if a value exceeds the standard conditions, please contact K2 Systems.



Planning with K2 Base

We recommend our free online software K2 Base for the planning. In five steps, you can plan the right assembly system and get an installation recommendation, a bill of materials and the structural analysis report. Simply register and start planning: base.k2-systems.com



Roof requirements

- Approved for the following roof types:
 - Lysaght: KlipLok 406, KlipLok 700 classic, Klip-Lok 700 hi-strength, Klip-Lok Optima
 - Global Roofing Solutions: Klip Tite 700
 - Fielders: KingKlip 700
 - Youngman: Springlok 700
- Roof pitch: up to 20°



Structural requirements

The sufficient holding force of the roof covering at the support or substructure must be ensured on site.

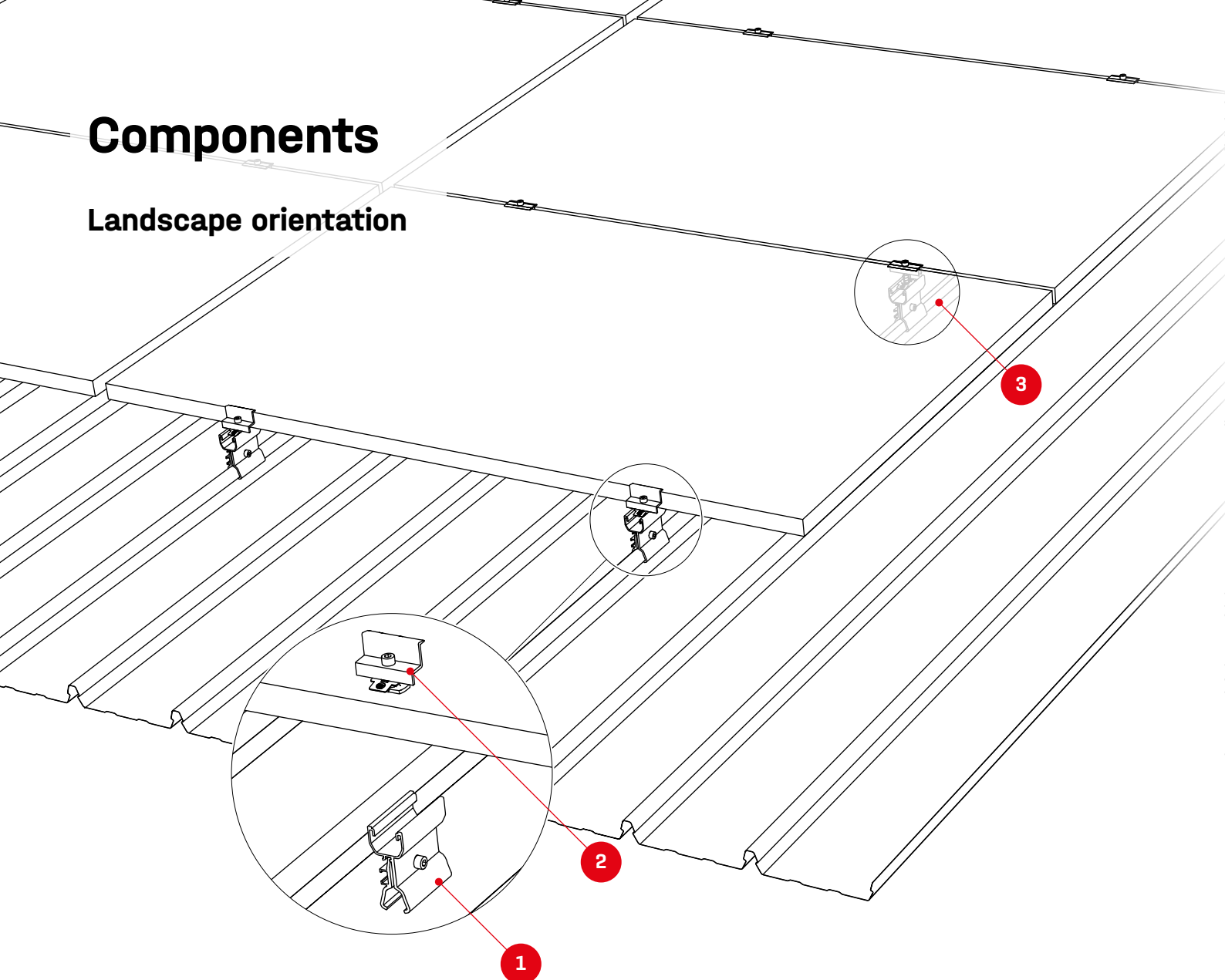


Important mounting instructions

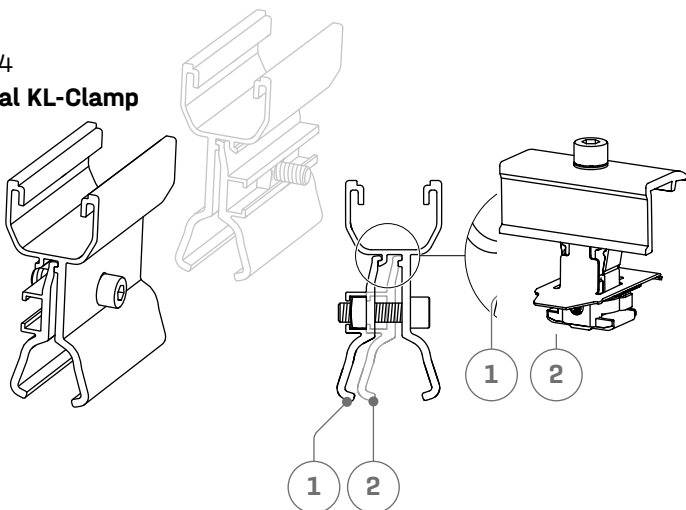
- On-site general standards and regulations for lightning protection must be observed and consultation with a specialist to create a lightning protection concept is recommended (use lightning protection clamp if necessary).
- We recommend a thermal separation after maximum of 6.1m.
- A minimum mounting distance of 50 mm from the end of the rail / rail joint to the module frame.
- Rail cut SingleRail ≥ 700 mm
- The SingleRail 36/50 RailConnector must always be positioned between two Universal KL-Clamps; meaning, a cantilever extension at the rail edge outside the last Universal KL-Clamp is not permitted.
- Follow the manufacturer's instructions for the clamping area of the module clamps and for mounting the modules (see module data sheet of the manufacturer) - tighten with M8 screw and 14 Nm.

Components

Landscape orientation



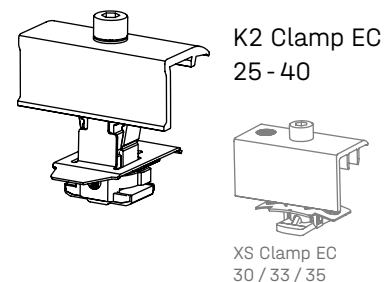
1 2004124 Universal KL-Clamp



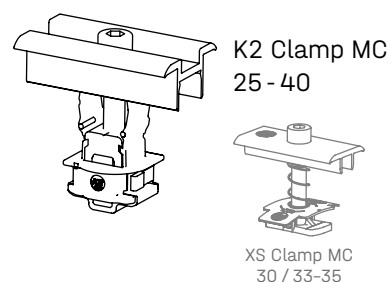
Roofing adjustments:

- | | |
|--|--|
| <p>1 • Lysaght™: Klip-Lok 700 Hi-strength® und Klip-Lok Optima® 700</p> <p>• Fielders: KingKlip 700</p> <p>• Youngman: Springlok 700</p> | <p>2 • Lysaght™: Klip-Lok 406® und Klip-Lok 700 Classic</p> <p>• Global Roofing Solutions: Klip Tite 700</p> |
|--|--|

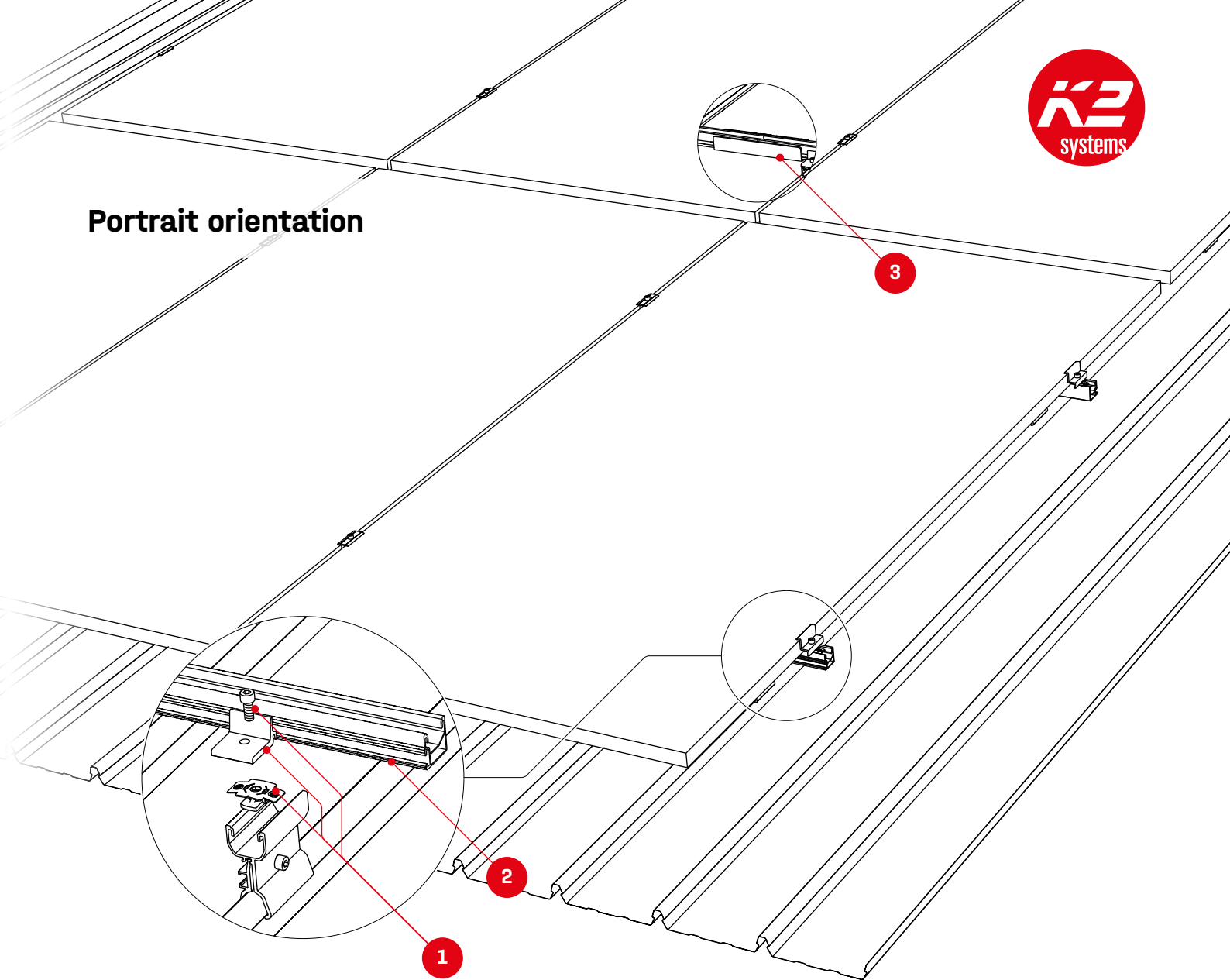
2 Article number project specific! Module end clamps



3 Article number project specific! Module mid clamps

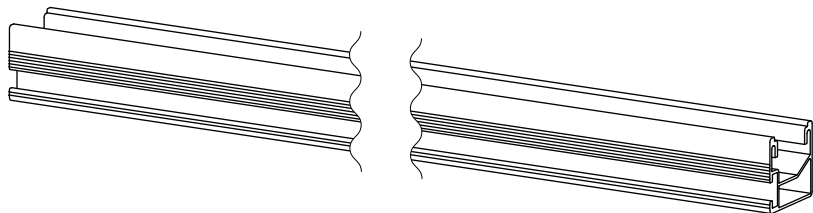
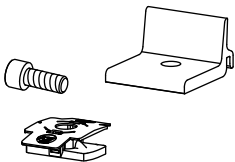


Portrait orientation

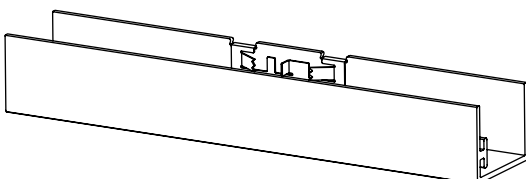


1 2003145
Climber 36/50 Set

2 Article number project specific!
SingleRail 36

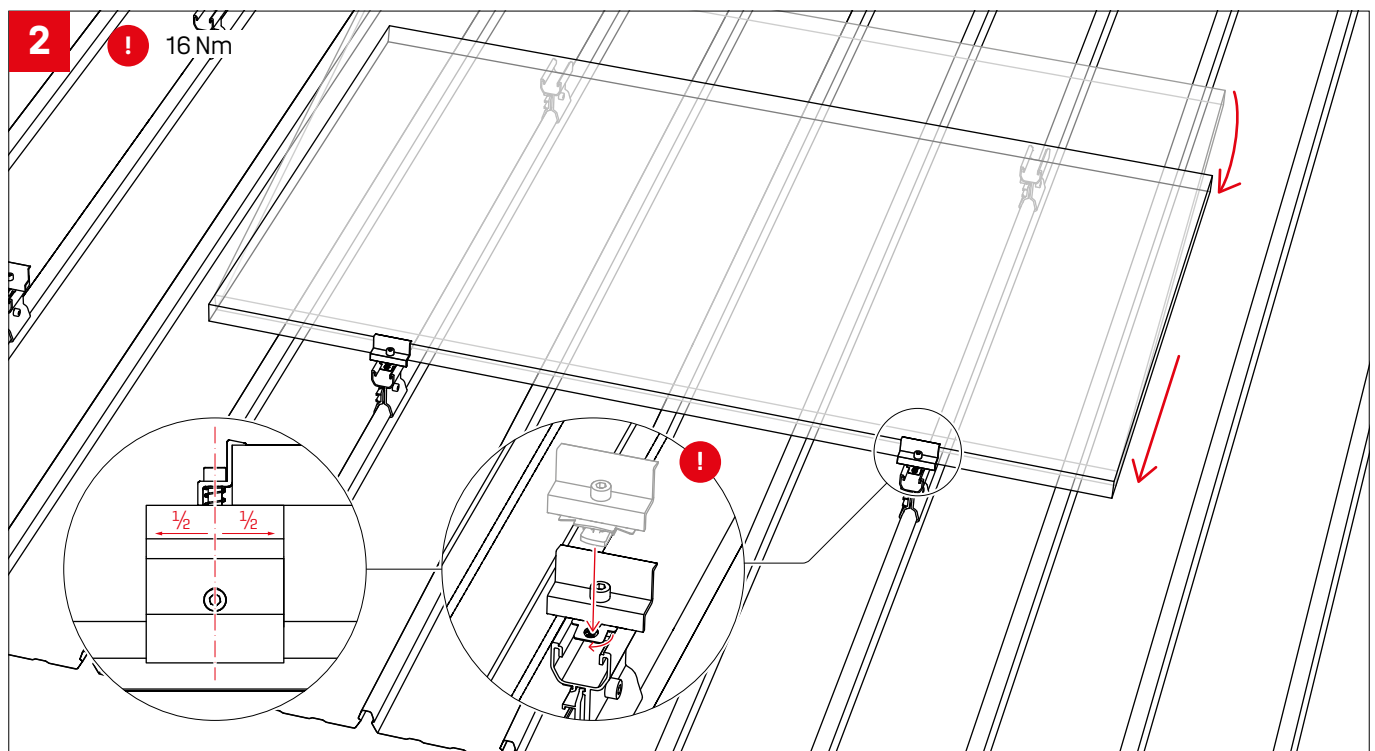
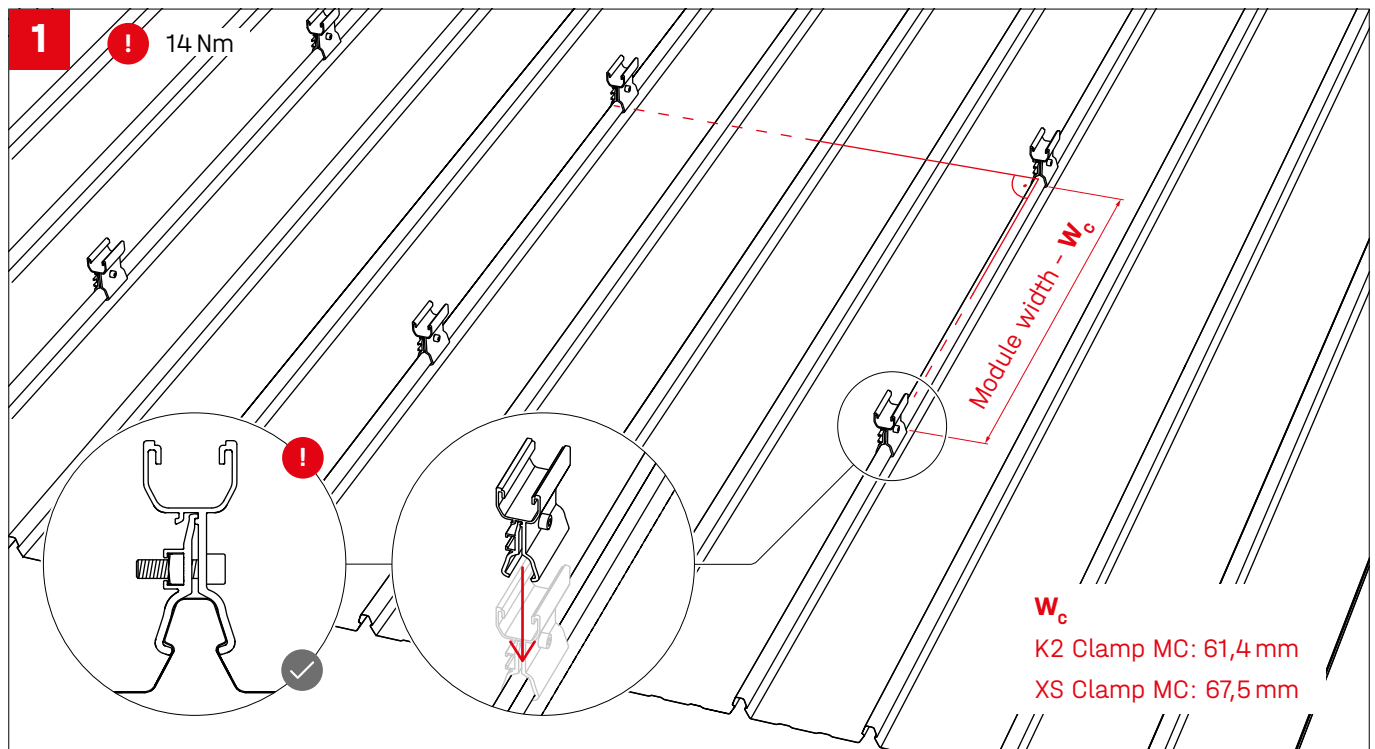


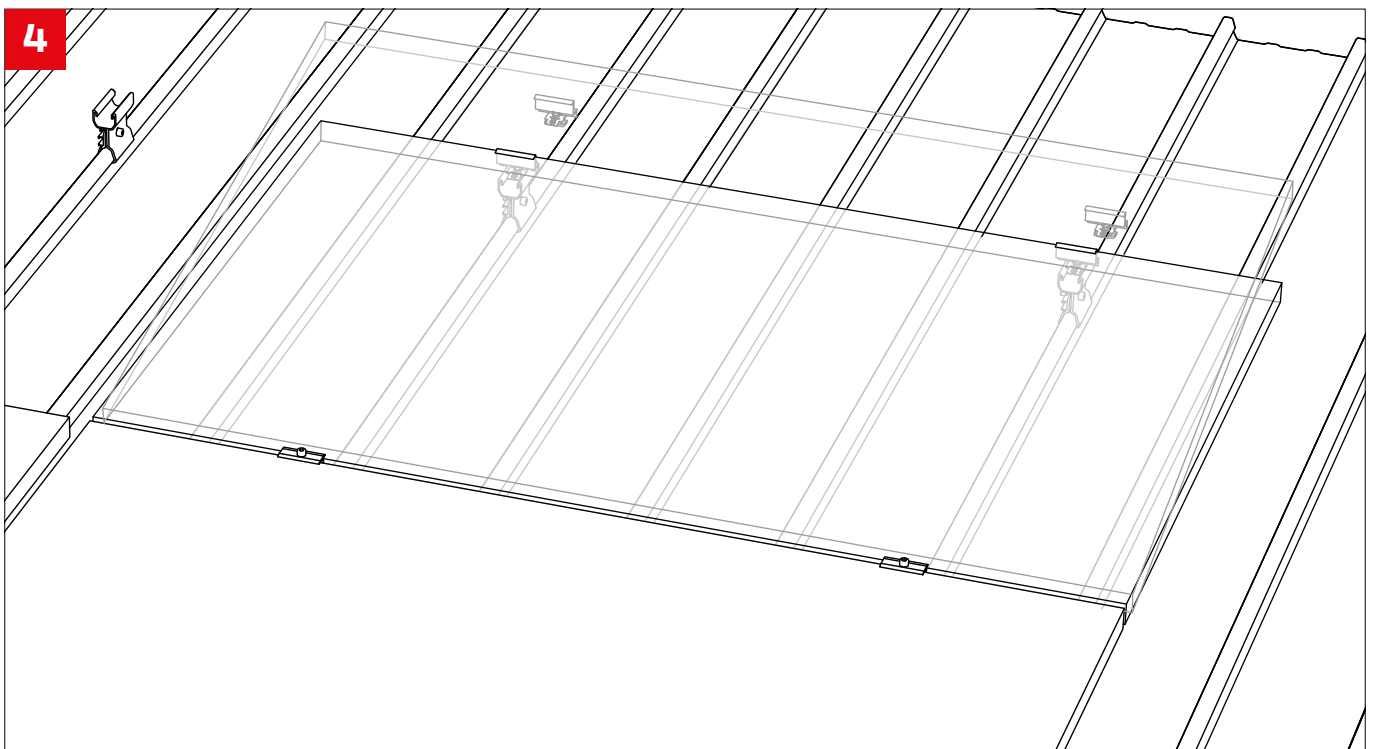
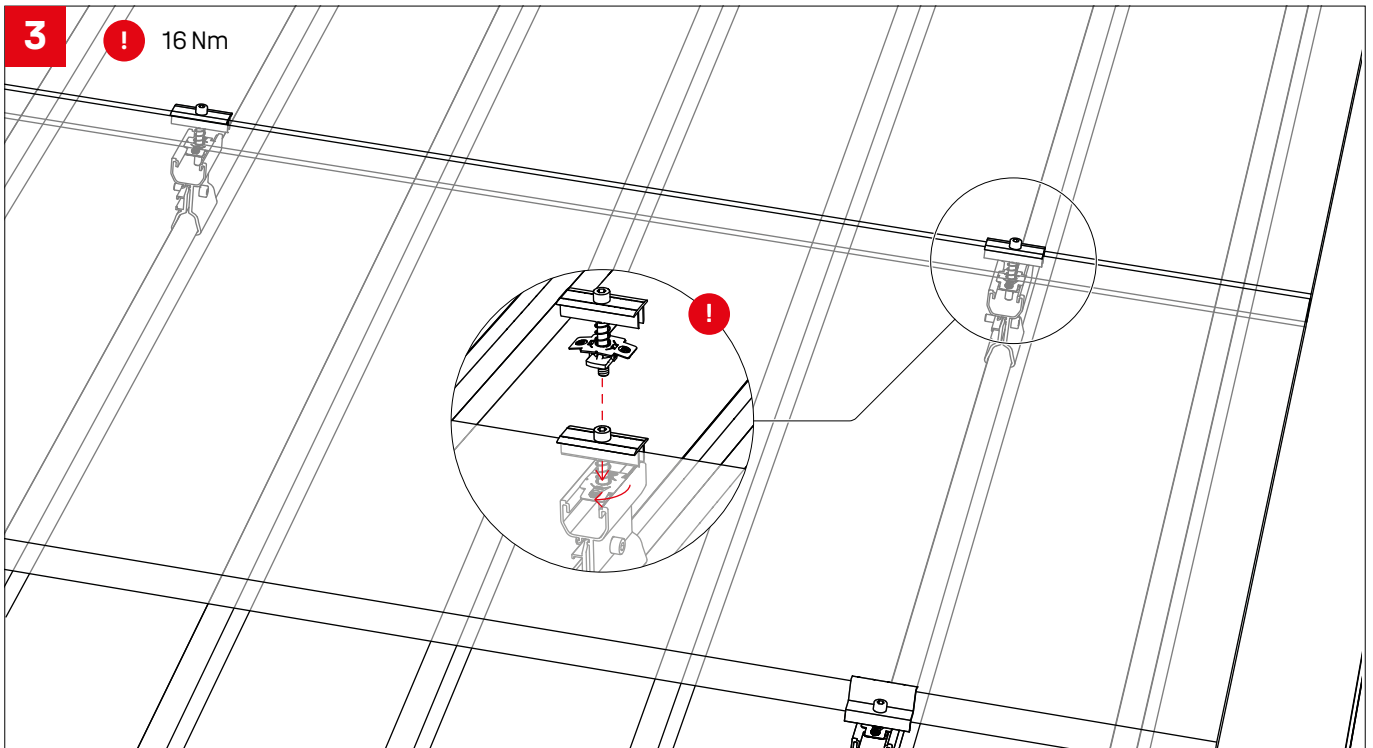
3 2003605
SingleRail 36/50 RailConnector

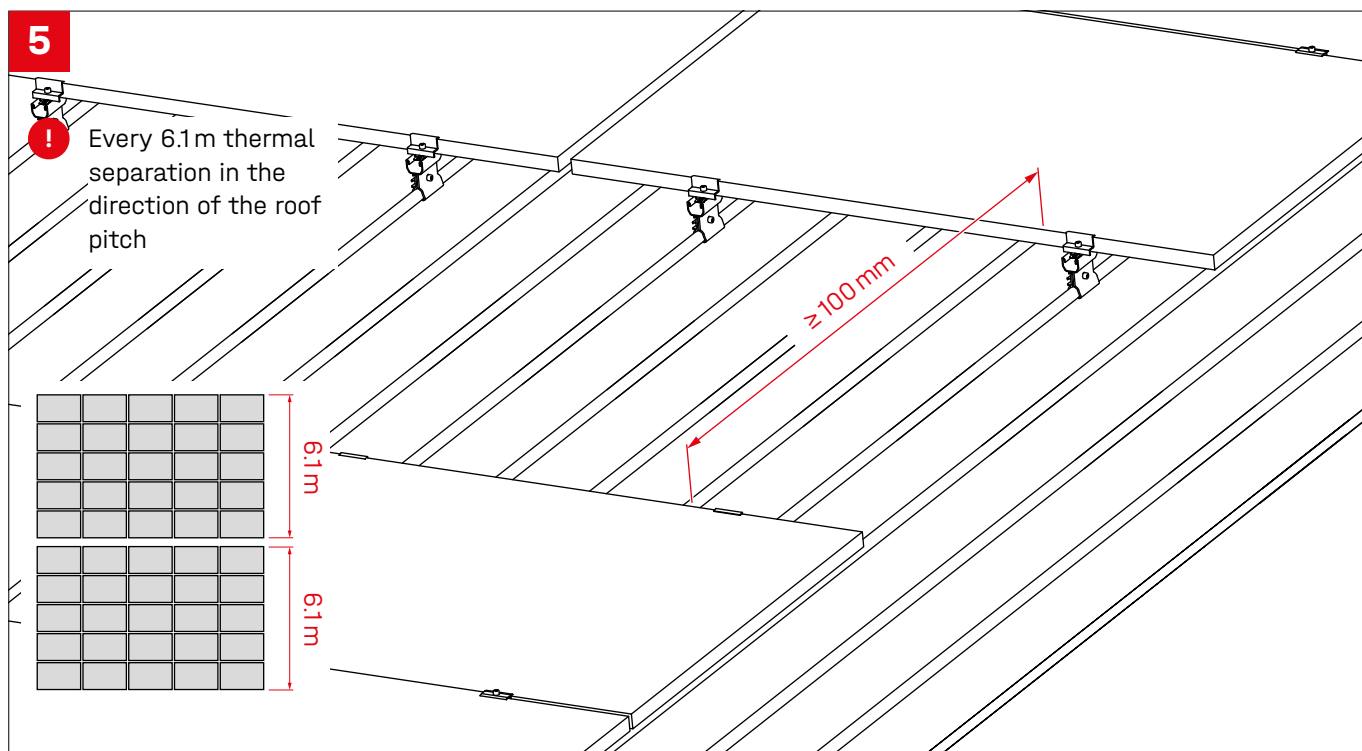


Assembly

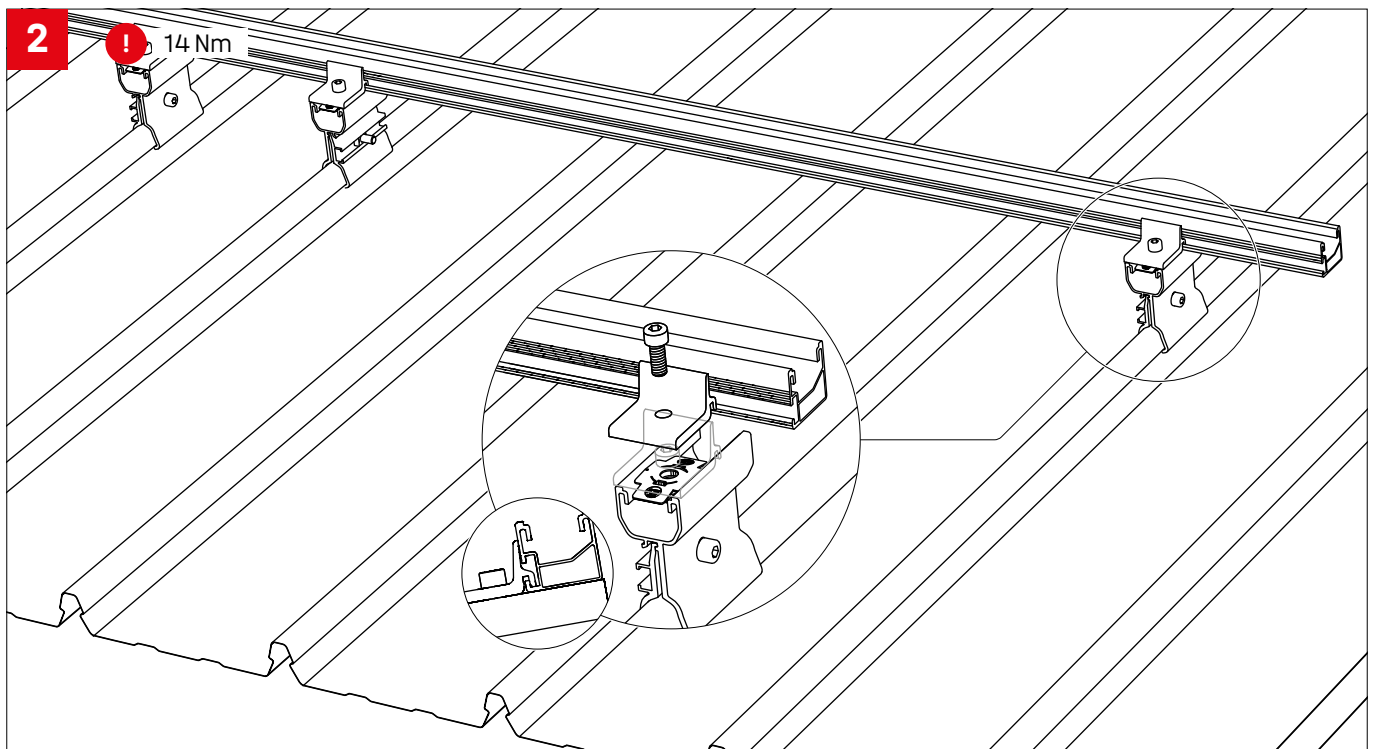
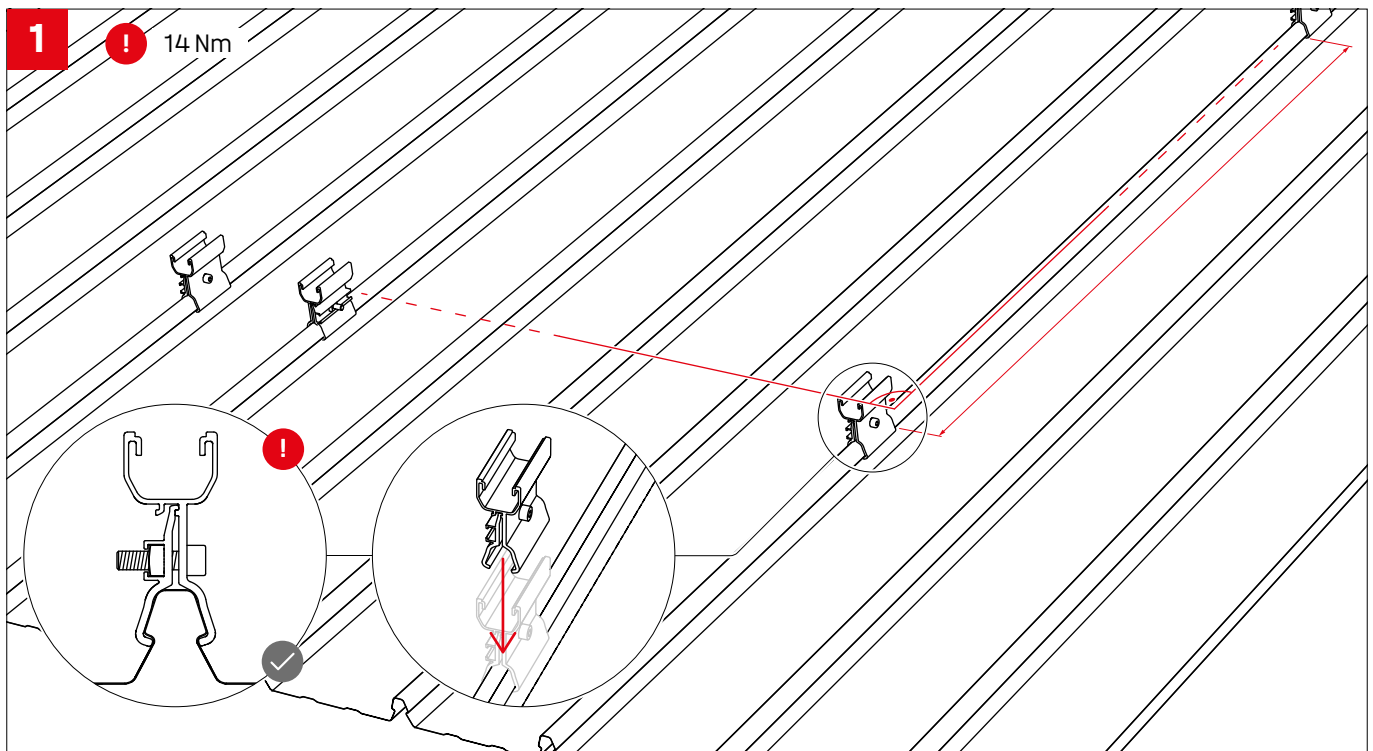
Landscape orientation

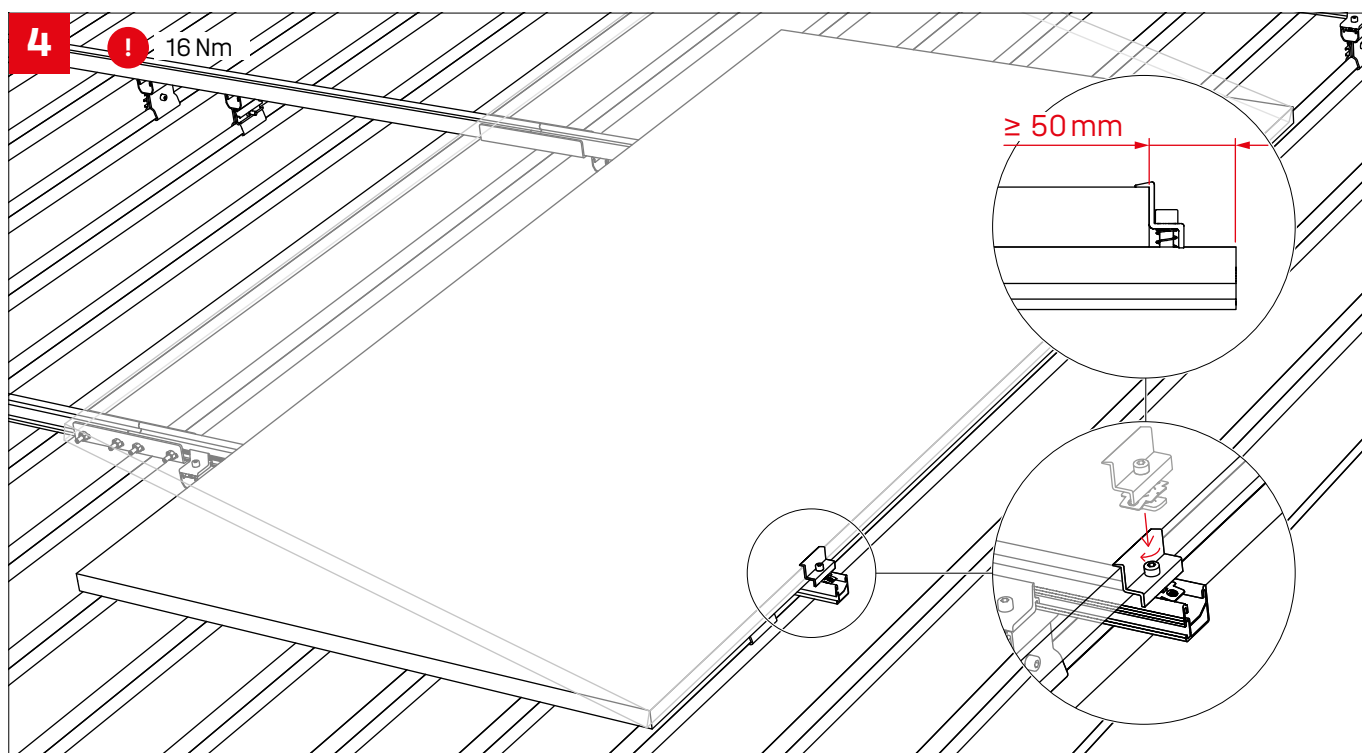
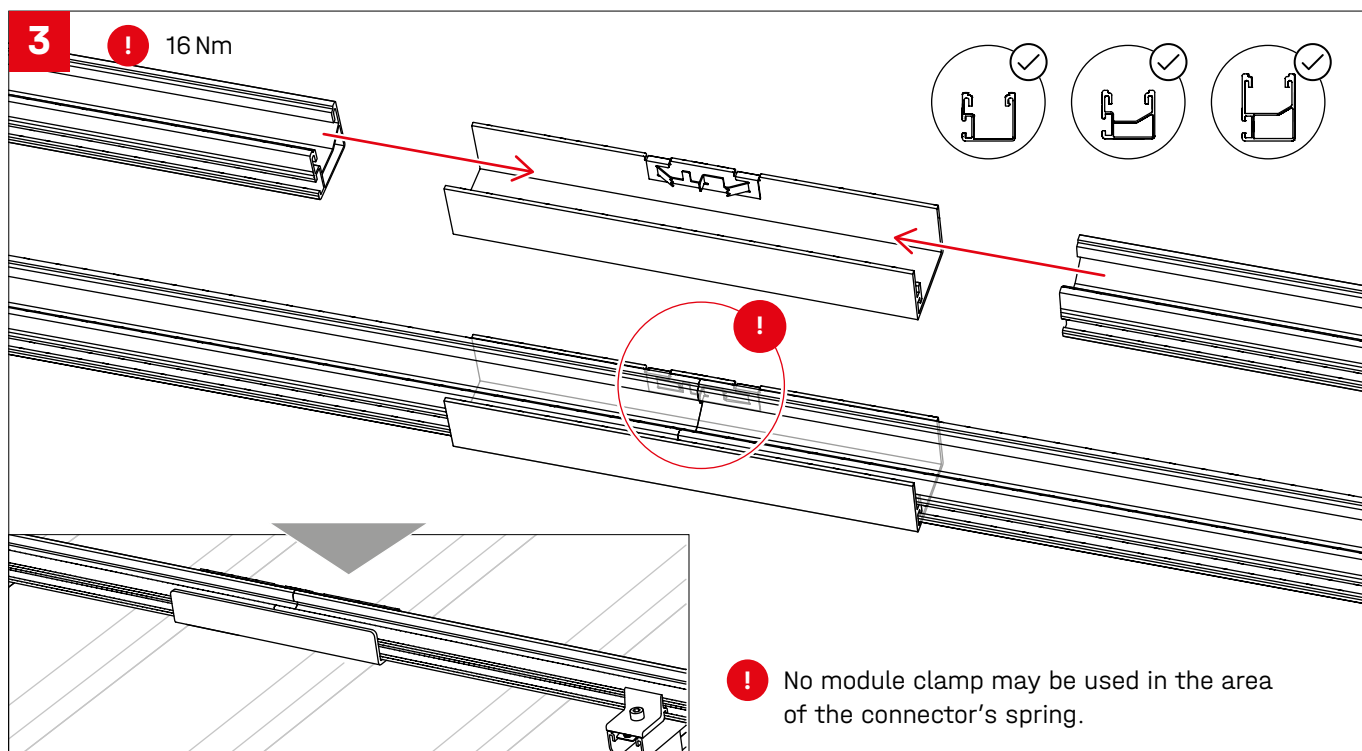


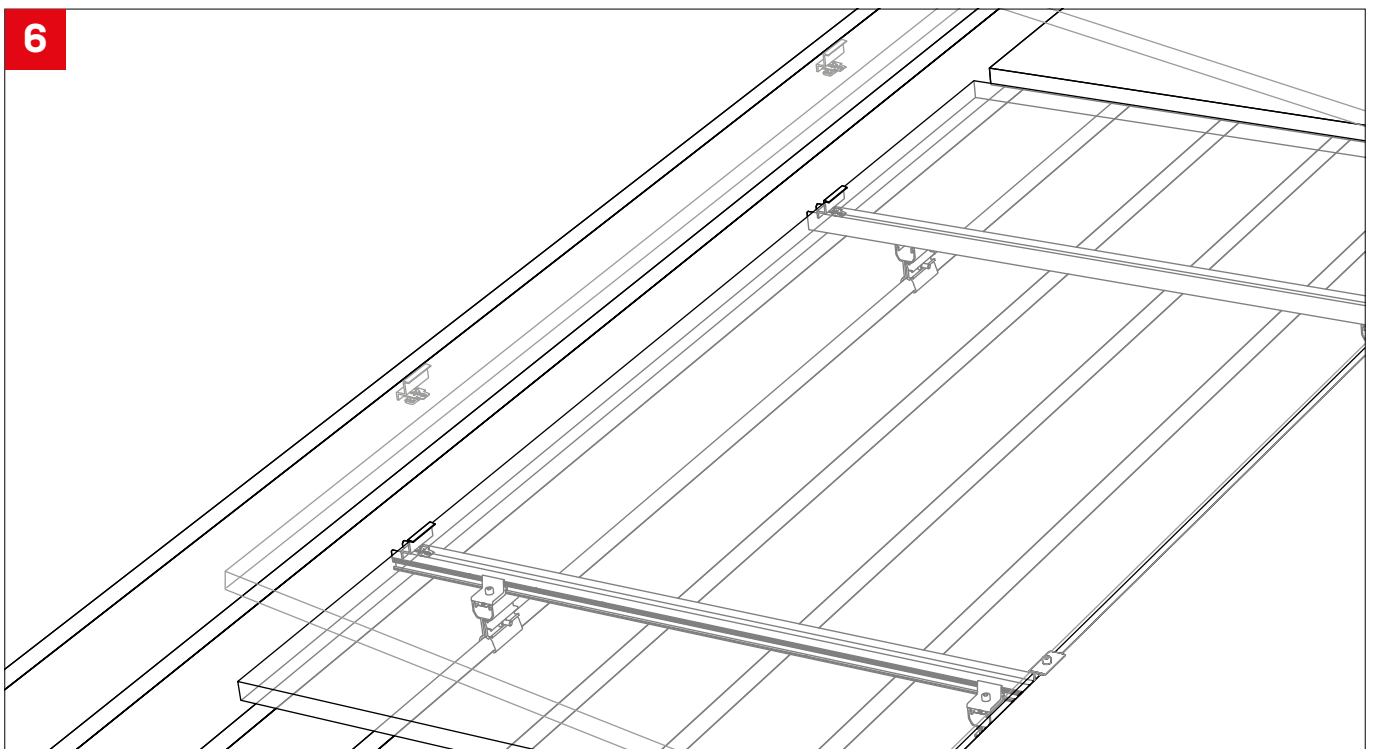
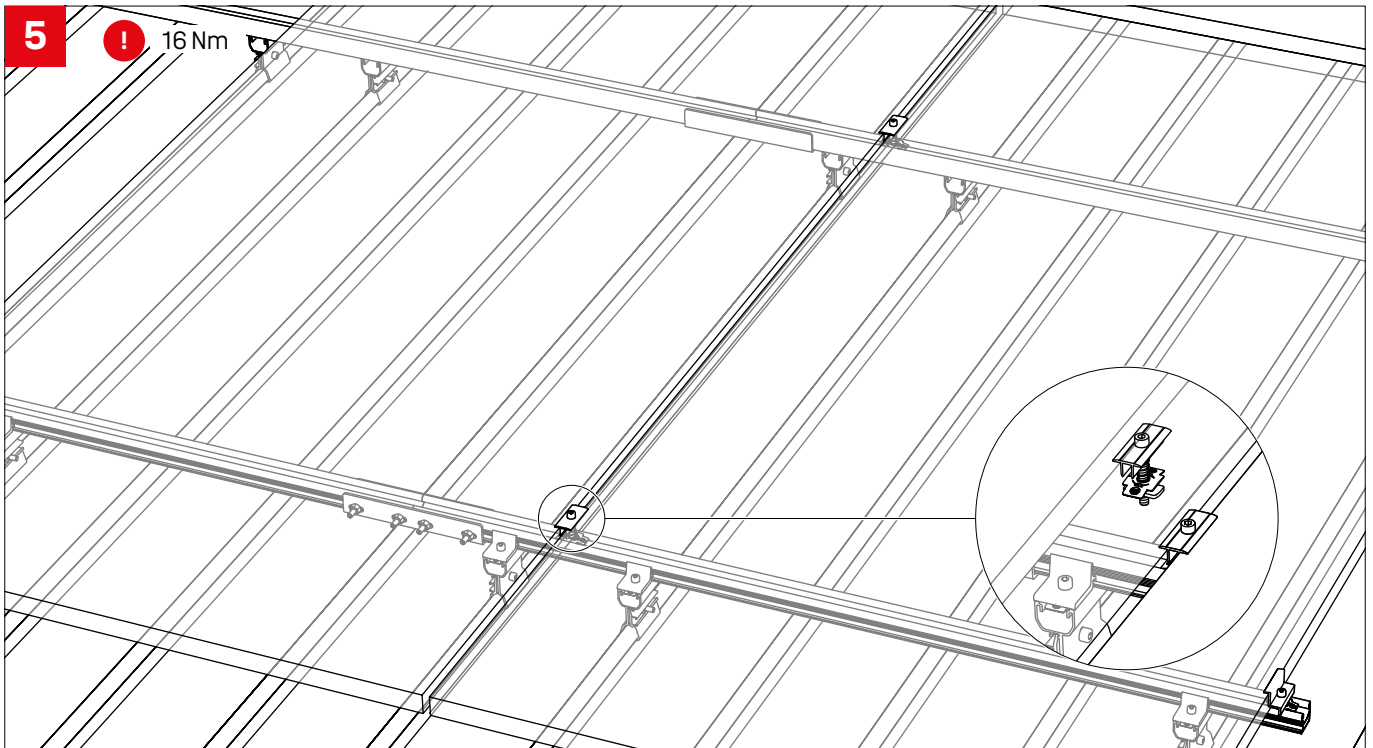




Portrait orientation and SingleRail layer



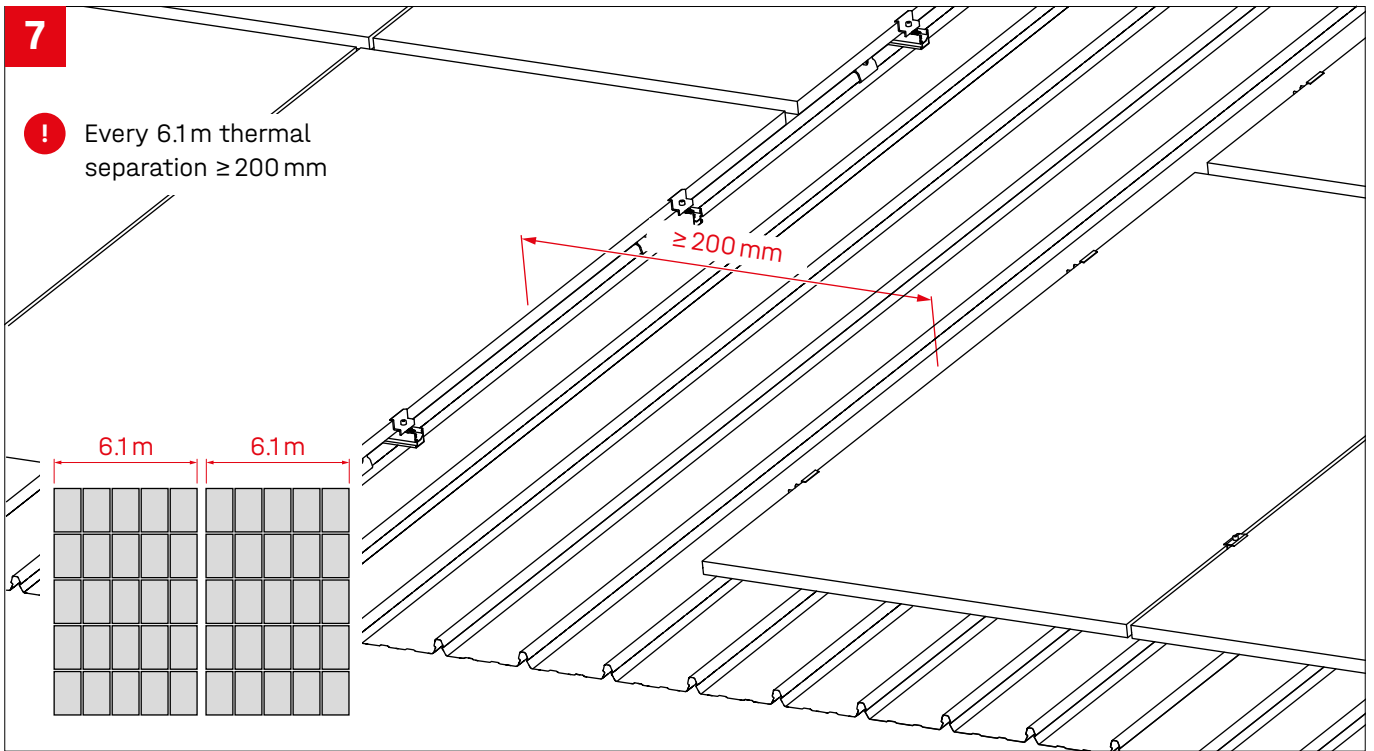




7



Every 6.1m thermal separation ≥ 200 mm



Notes





Connecting Strength

Thank you for choosing a K2 mounting system.

Mounting 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

Universal KL-Clamp Assembly EN V2 | 0726 · Subject to change
Product illustrations are exemplary and may differ from the original.