

Insertion System

ASSEMBLY INSTRUCTIONS



Content

Tools overview	3
General safety information	L
 The following guidelines apply Planning with K2 Base Roof requirements Structural requirements Important mounting instructions 	5
 Components Insertion system on pantiles Insertion system on corrugated fibre cement 	6 8
• Assembly • Portrait and Landscape	9
Notes	15

Quality tested - severeal certifications

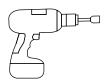
K2 Systems stands for secure connections, highest quality and precision. Our customers and business partners have known that for a long time. Independent institutes have tested, confirmed and certified our capabilities and components.

Please find our quality and product certificates under:

www.k2-systems.com/en/technical-information

Tools overview













3/4/5 mm

nm TX25/40

7/9/13 mm

7/8.5 mm

14/15 mm





3/4/5/6 mm 7/9/13 mm











Do you already know our digital services? Use our K2 Roof Check App 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 other manufacturers. With the K2 DocuApp, project documentation is done quickly and easily - without annoying paperwork.

Get started and register now:

app.k2-systems.com



base.k2-systems.com



docuapp.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 www.k2-systems.com/en/technical-information.

- ► 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 roofmounted 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 www.k2-systems.com/en/technical-information 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 insertion system 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 K2Base. 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 our free 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

- ▶ The sufficient holding force of the roof covering at the support or substructure must be ensured on site.
- ▶ Roof pitch: 5 75°
- If the roof pitch is less than 12°, the module must be secured with a module earthing clip or by pulling in a wire rope upwards in the insertion profile.

- To avoid tiles breaking under high snow loads, arrange for supporting the bracket with a suitable metal support plate.
- Do not step on roof hooks or rails, aren't climbing assists.
- Dimensioning and positioning of the woodscrews subject to the European Technical approvals (ETA) of the screw manufacturers.
- Special requirements apply with on-rafter insulation or counter battening: special fitfor-purpose spacer screws have to be used.



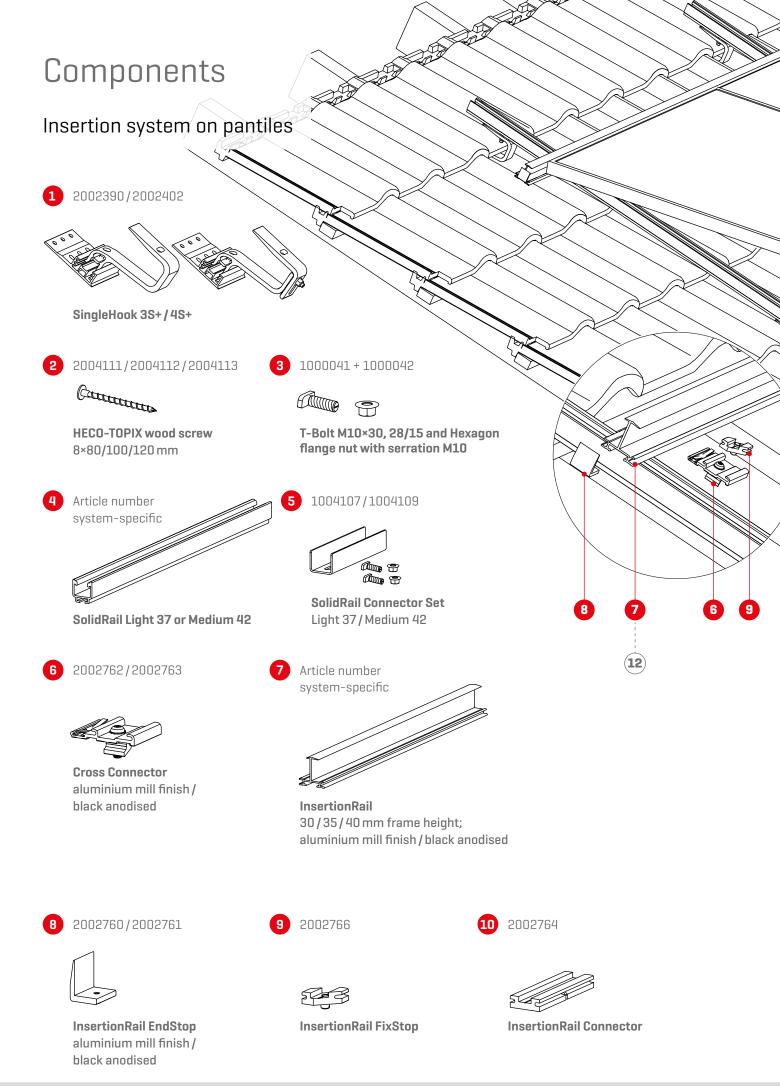
Structural requirements

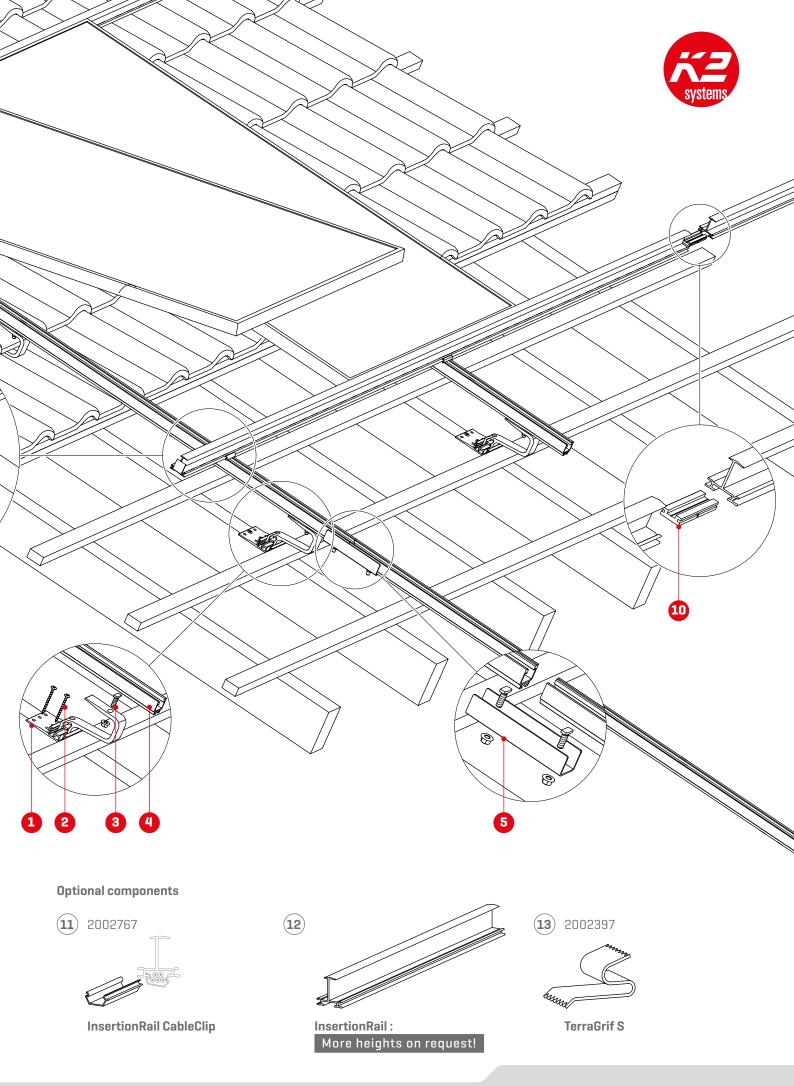
The static verification of the component is automatically calculated with the K2 Base On planning software for the respective location. The design provided in a project report must be followed.

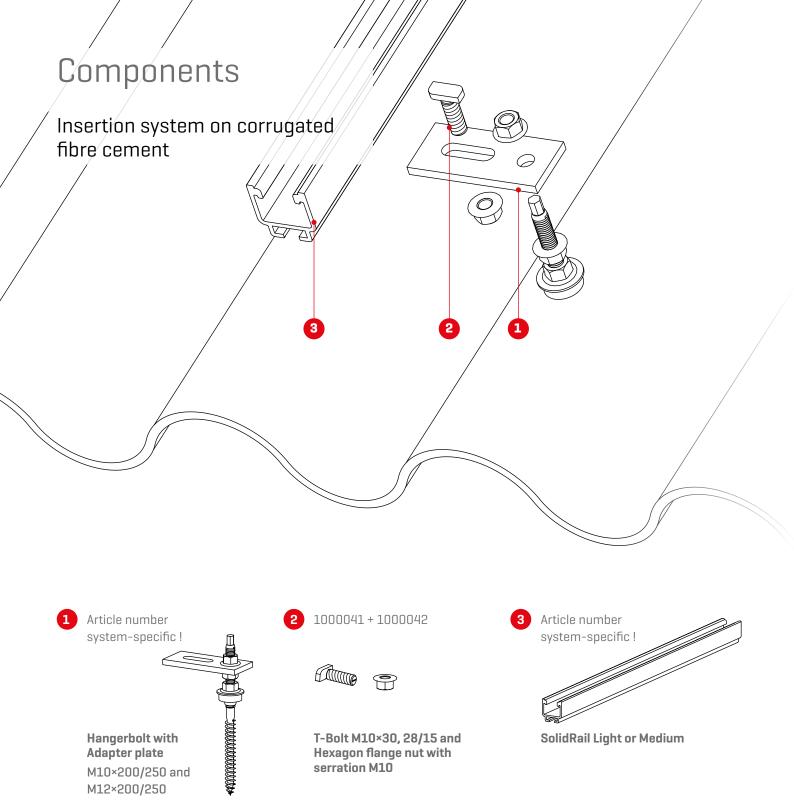


Important mounting instructions

- 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). Country-specific regulations must be observed.
- ▶ The minimum distance between two assembled horizontal rails must be at least 7 mm.
- ▶ Thermal separation of the module blocks:
 - Module support rails: max. 17.6 m [min. distance 3.0 cm]
 - · Insertion rails / module level: max. 21.0 m





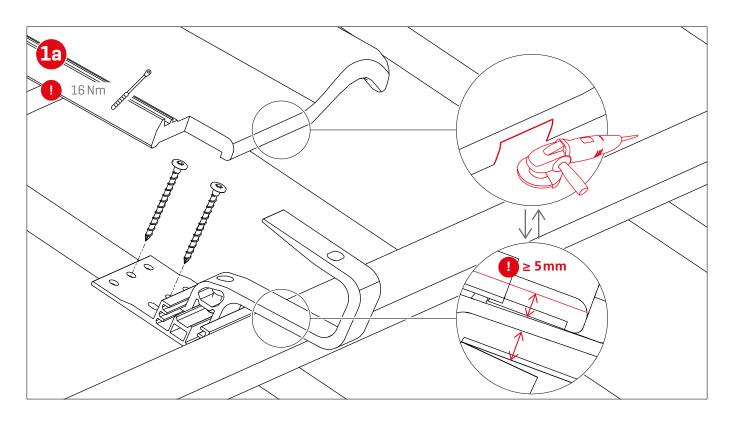


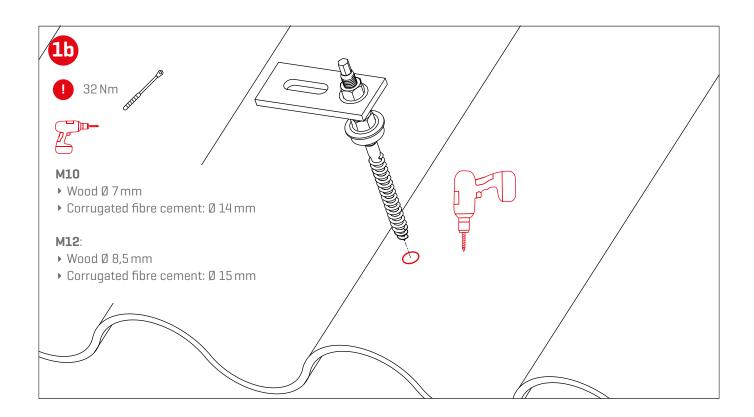
All other components mounted above the SolidRail mounting rail are the same as on page 6.

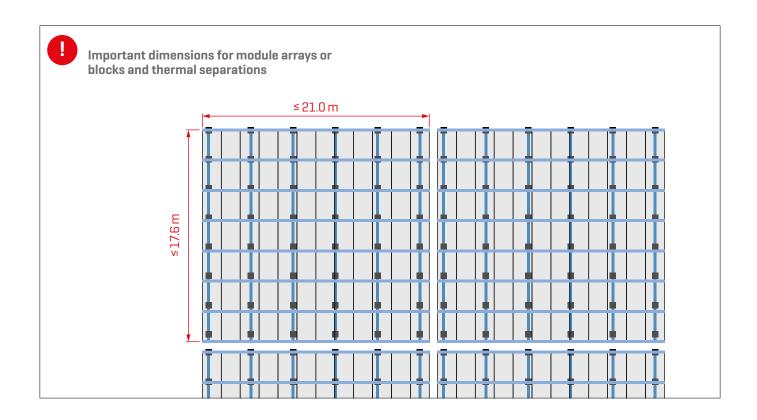
Assembly

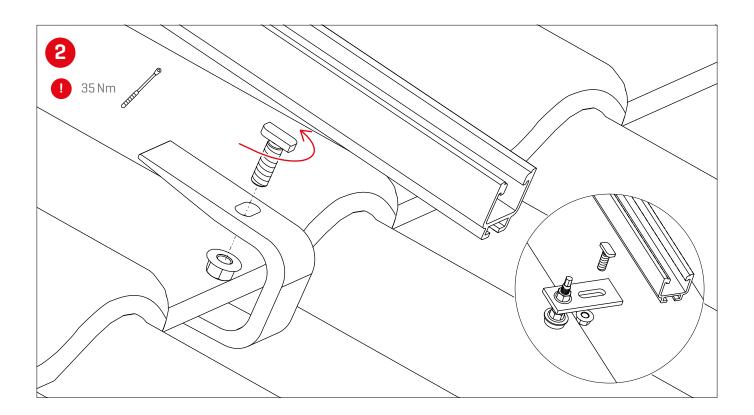


Portrait and Landscape

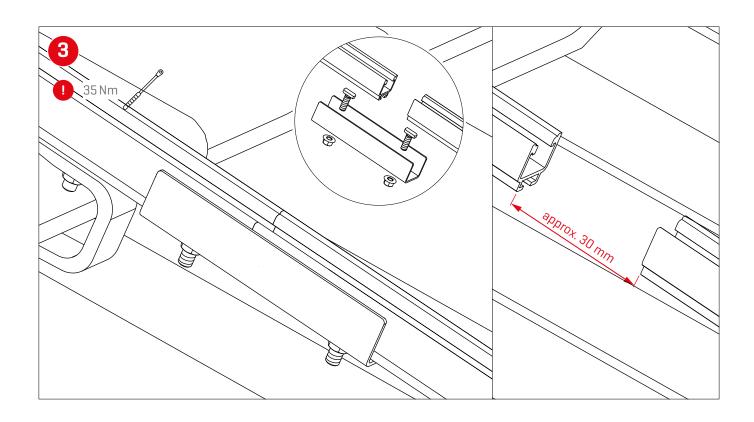


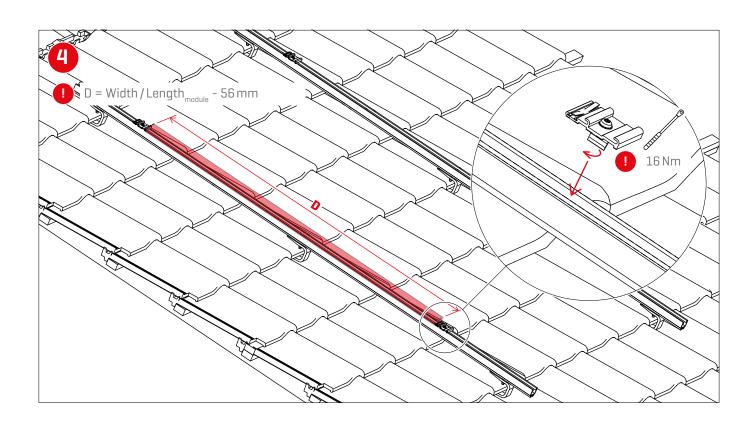


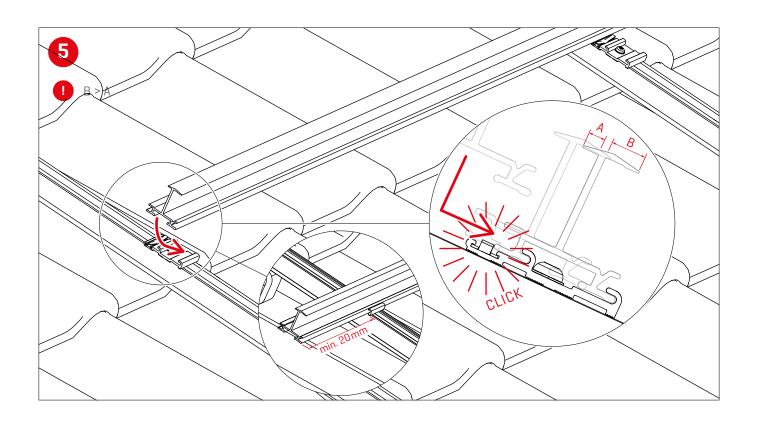


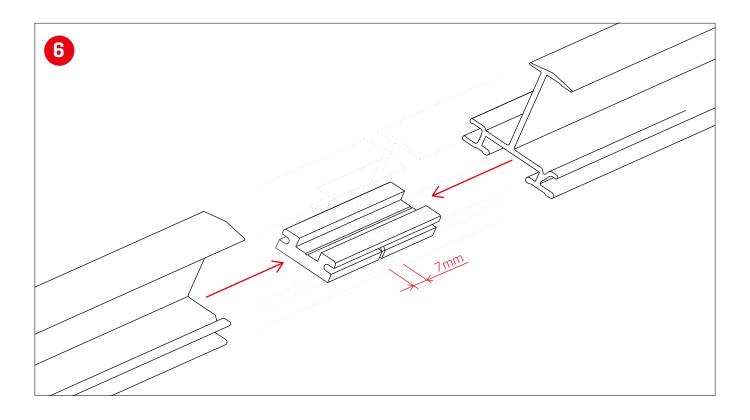




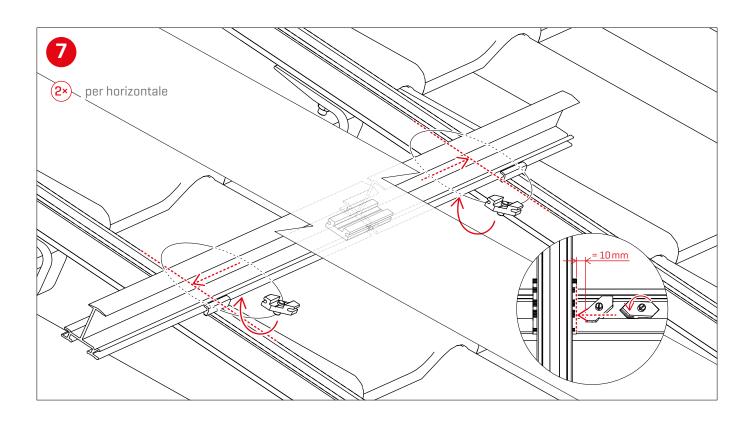


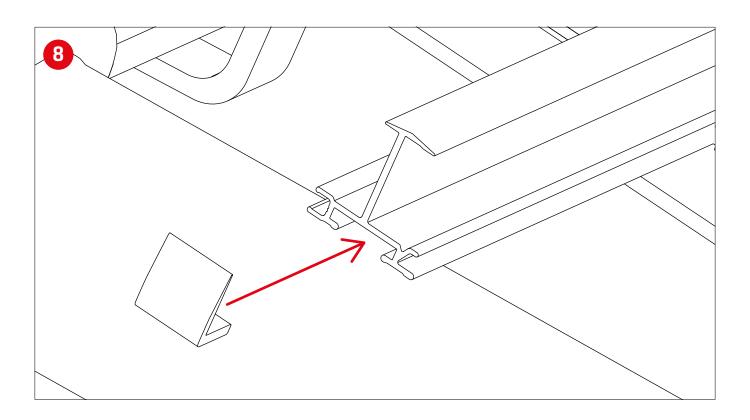


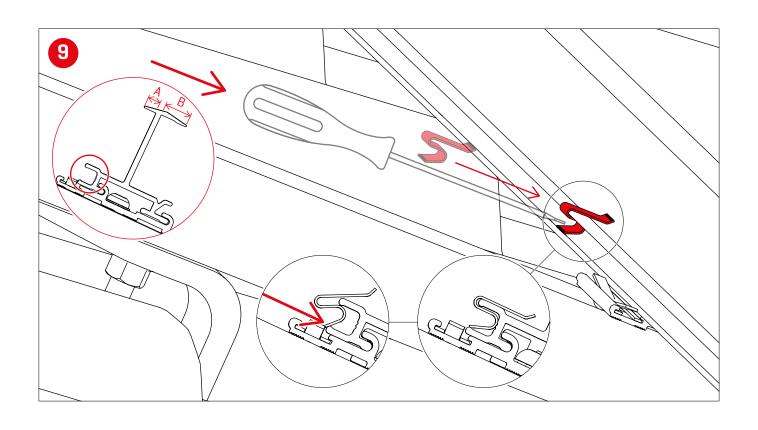


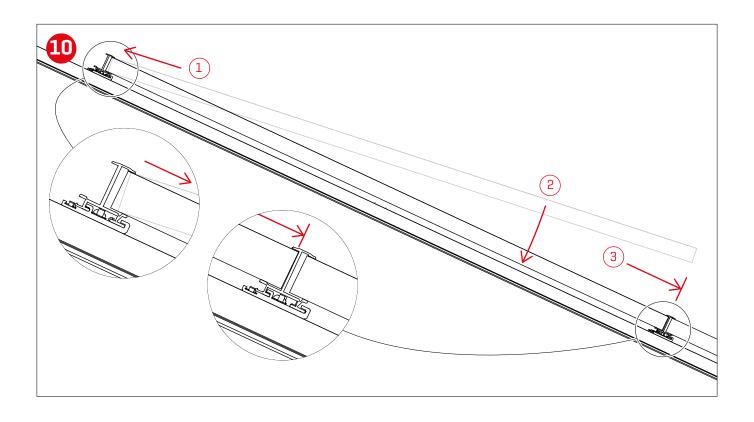






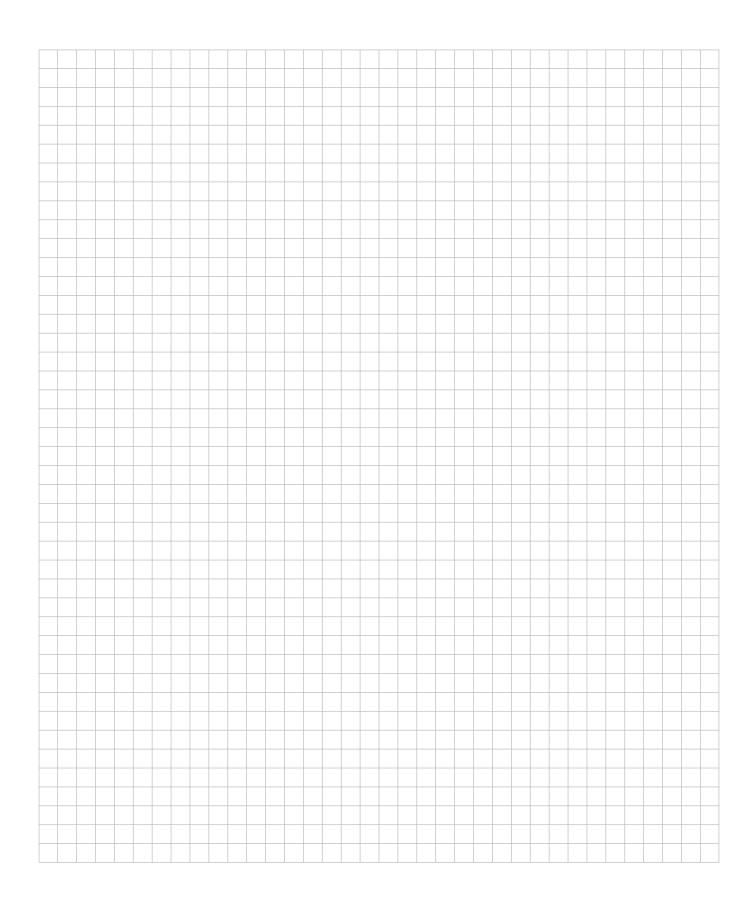






Notes





We support PV systems



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:

- www.k2-systems.com/en/contact
- ▶ Service Hotline: +49 (0)7159 42059-0

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

K2 Systems GmbH Industriestraße 18 71272 Renningen Germany +49 [0] 7159 - 42059 - 0 info@k2-systems.com www.k2-systems.com