Assembly manual

SolidRail System
Roof hooks pantiles
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:
www.k2-systems.com/en/technical-information
Tools overview

- 6 mm
- 15 mm
- 25/40

- 6 - 30 Nm
  (4.5 - 22.2 lb-ft)

- ≥ 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 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 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.

› 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 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

Our general assembly instructions must be adhered to and can be viewed online at https://k2-systems.com/en/technical-information

The pantile roof hook 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 K2 Base On. The system is also suitable for higher requirements. However, if a value exceeds the standard conditions, please contact K2 Systems.

Roof requirements

- The sufficient holding force of the roof covering at the support or substructure must be ensured on site.
- Roof pitch of 5-75°

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 18.8 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 14 Nm
- For manufacturer information regarding clamps see the manufacturing module data sheet.
- 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.
- Sizing and positioning of the wood screws are subject to the relevant regulations.
- 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 fit-for-purpose spacer screws have to be used.
Components

Portrait assembly
1. Item number project specific! Roof hooks

2. Item number project specific! Heco Topix wood screw, Flange Head, T-Drive

3. Item number project specific! Mounting rail SolidRail

4. 1000042 Hexagon flange nut with serration, M10

5. Item number project specific! T-bolt M10x20 / M10x30

6. 2002514/2002589 Universal module end clamps OneEnd

7. 2002515/2002588 Universal module clamps OneMid

8. Item number project specific! SolidRail Connector Set

9. Item number project specific! SolidRail EndCap

10. 1005394 Omega cable clip
Components

Additional items landscape assembly

1. 1001643 MK2 slot nut with clip
2. 1002286 Climber 36/48
3. 2001729 Bolts with serrated under head M8×20
4. Item number project specific! SingleRail 36/50

Optional:
2001976/2002404 SingleRail 36/50 Connector Set
3
! 35 Nm

4
! 35 Nm
Assembly

Landscape

1. Ensure the assembly is secure with a torque of 16 Nm.

2. Secure the components with appropriate fasteners.
4× Static load-bearing function
2× Simple function

16 Nm
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](http://www.k2-systems.com/en/contact)
- Service Hotline: +49 (0)7159 42059-0

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