



Assembly Manual

WallPV CarrierRail

InsertionRail



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Quality tested - multiple certifications

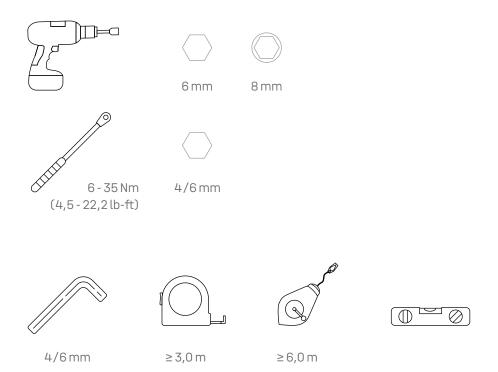
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Tools overview







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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

- 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 WallPV systems, the load-bearing capacity of the facade 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.
 - Facade works must be in accordance with local regulations and must utilise fall protection safegards when working height exceeds 3m.
 - 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 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. 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 under the following standard conditions. It is also suitable for higher requirements, however if a value exceeds the standard conditions, please contact K2 Systems.



Facade requirements

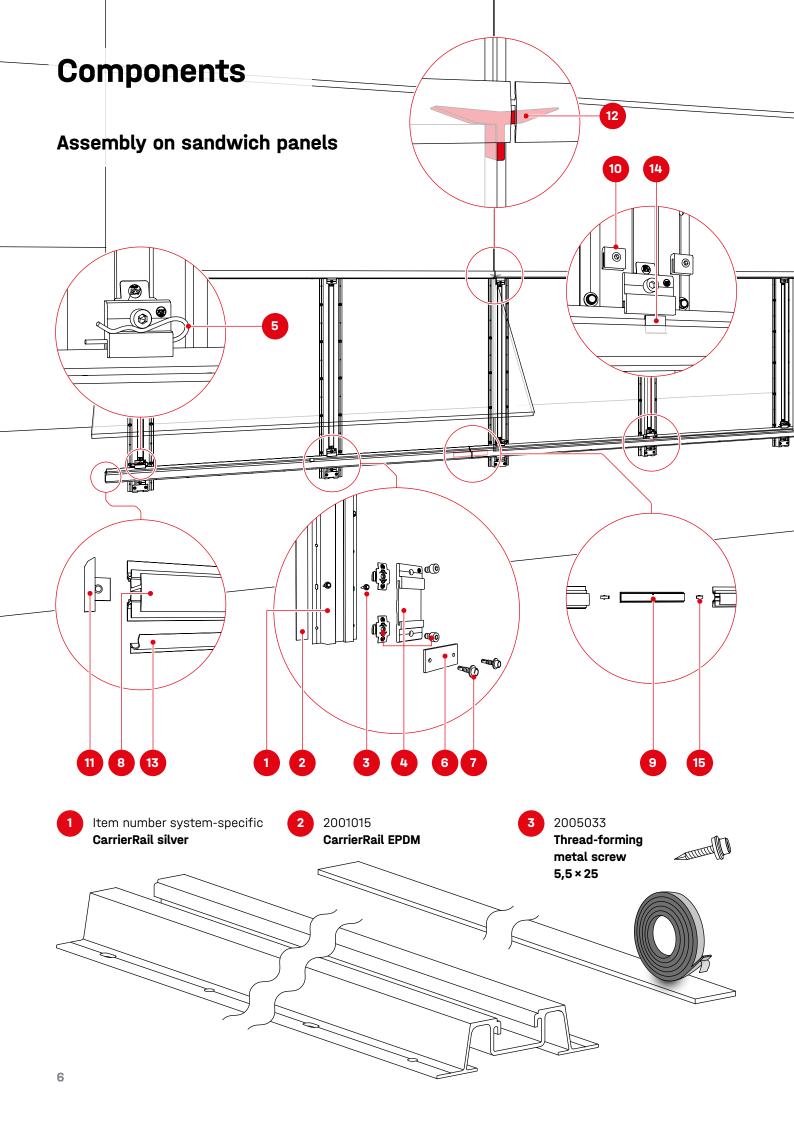
- The wall structure to which the PV mounting system is attached must have sufficient load-bearing capacity to absorb the additional loads generated by the PV system.
- The load-bearing capacity of the mounting substrate must be checked against the substrate assumed in the calculation before starting the installation work.
- It must be checked that the technical specifications of the wall construction, e.g. material, wall thickness, etc. correspond to the specifications of the static calculation.
- Sheet quality steel at least S235 acc.
 DIN EN 10025-1
- Minimum tensile strength for aluminium 165 N/mm²

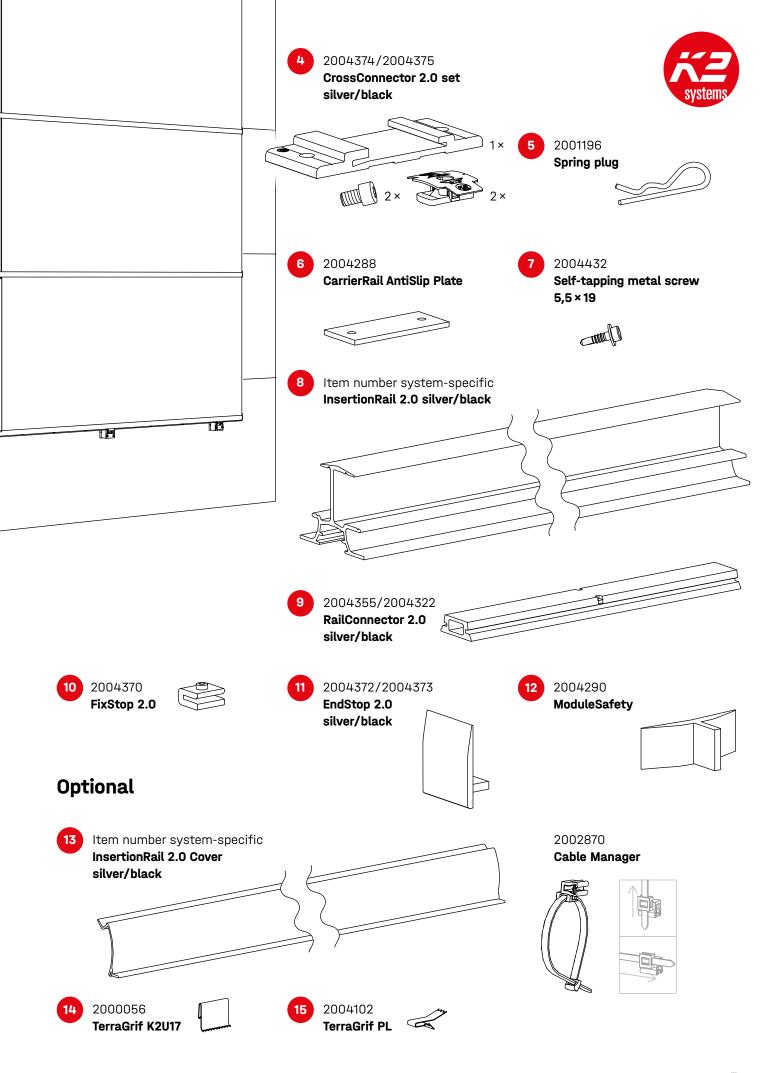


Important mounting instructions

- 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). It should be noted that the installation direction is from bottom to top. Country-specific regulations must be observed.
- The static verification for the CarrierRail system is calculated from the CarrierRail onwards. Verification for the CarrierRail on the substructure must be provided by the respective manufacturer or via an individual verification.

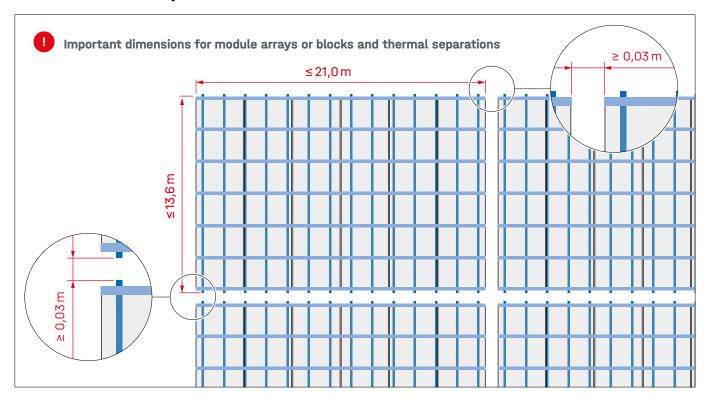
- After 13.6 m (vertical) and 21.0 m (horizontal) a thermal separation must be installed.
 Fire protection regulation may specify a value less than 13.6 m (vertical) and 21.0 m (horizontal) and must be adhered to.
- Depending on the sandwich wall element, minimum distances in relation to the tongue and groove connection must be observed when screwing the CarrierRail.
- The distance between the CarrierRail screw fixings and the joint profile connection of the sandwich panels must be at least 15 cm.
- Each cut-to-size rail section (InsertionRail) must have at least 2 fastening points (CrossConnector).
- Rail cut (InsertionRail) ≥ 70 cm
- Horizontal distance between the modules must be at least 5 mm (ModuleSafety).
- Country-specific construction approval may be required from the CarrierRail on the sandwich panel.
- The country-specific requirements for the modules when mounted on the facade must be observed.
- The country-specific rules for fire protection on the facade must be observed. If necessary, the system must be assessed by a fire protection expert.
- The country-specific rules for rear ventilation of the facade must be observed.

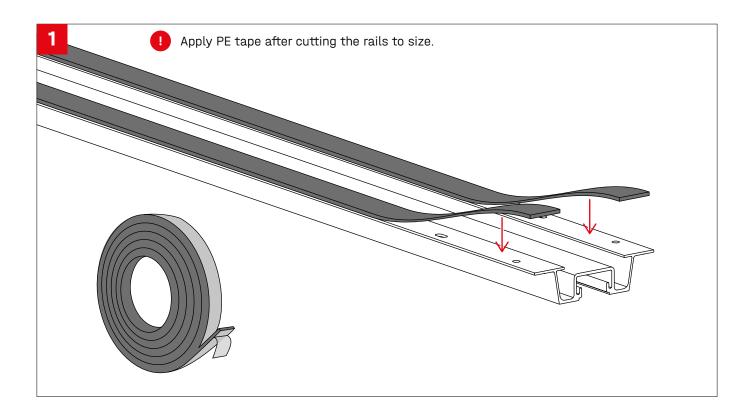




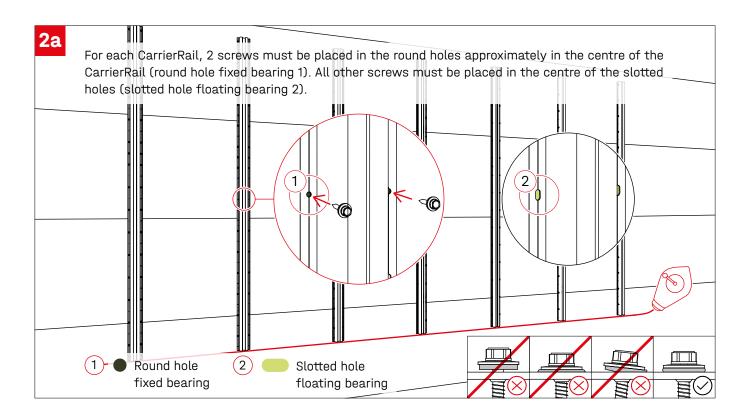
Assembly

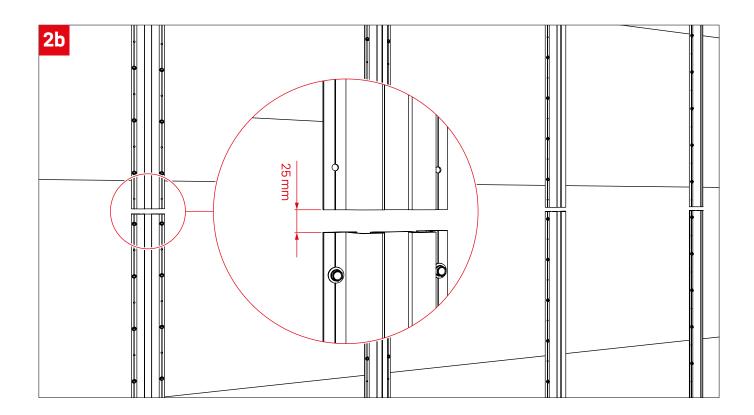
Portrait/landscape

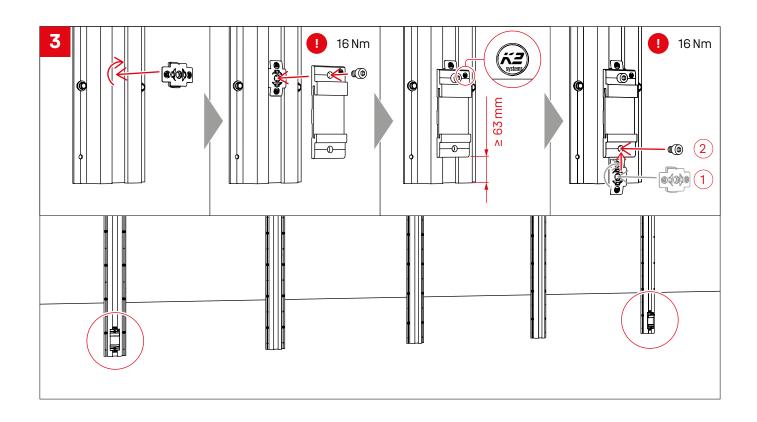


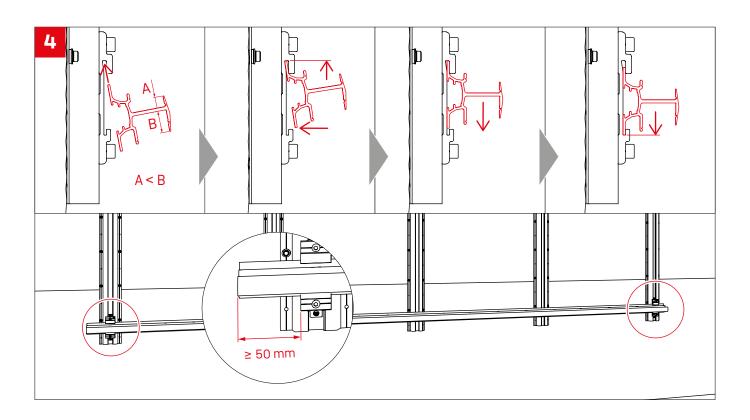




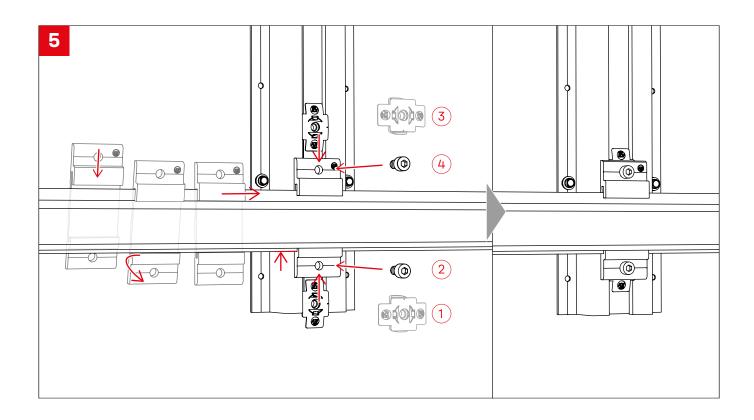


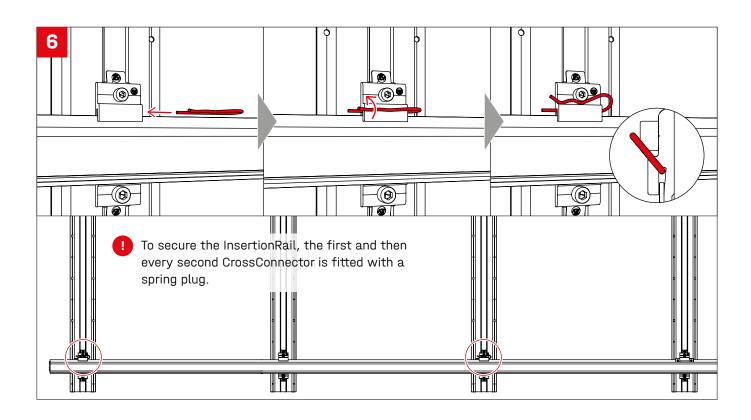


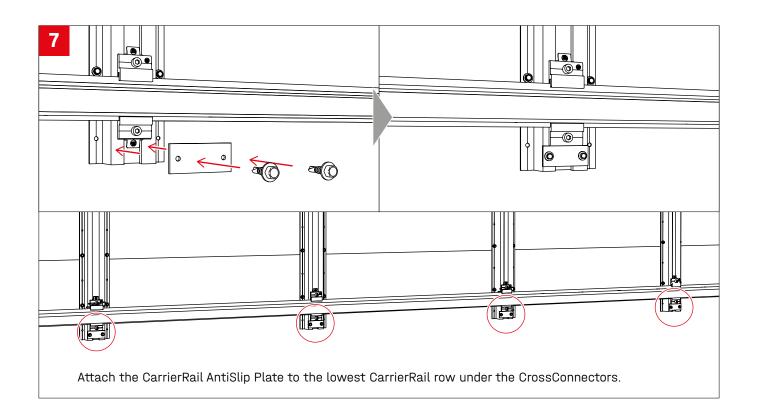


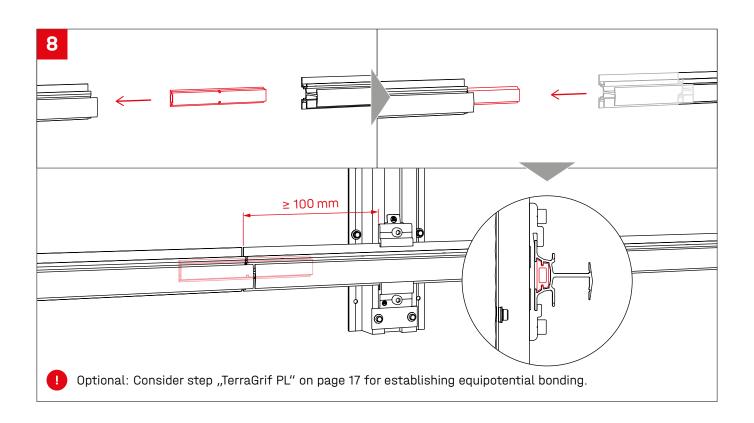






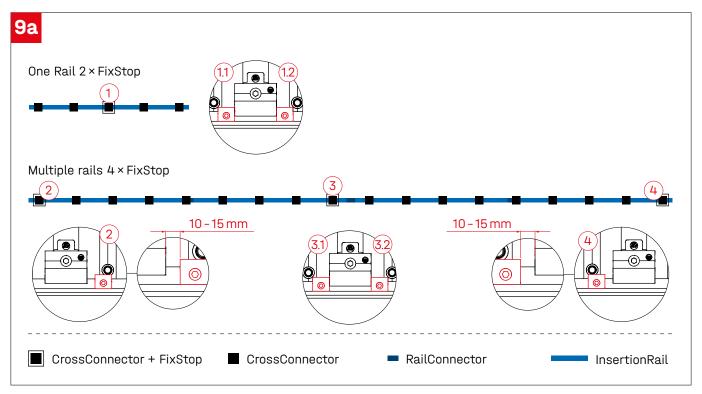


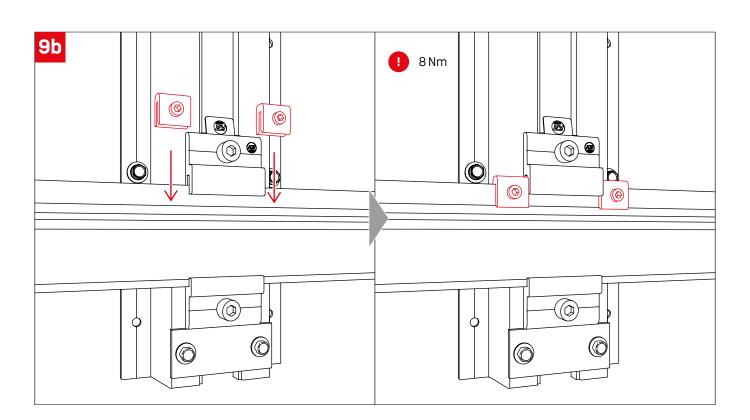


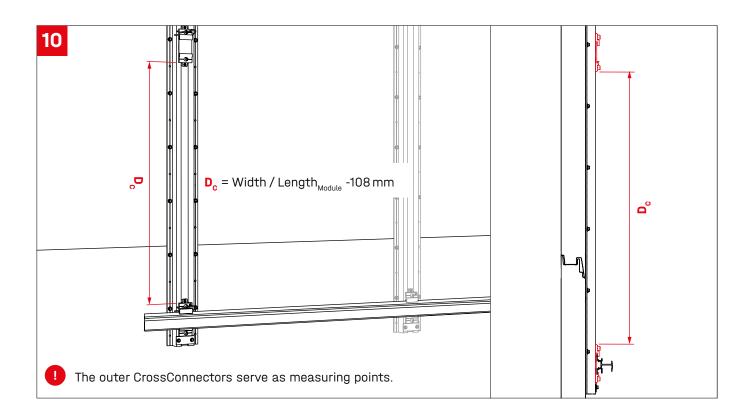


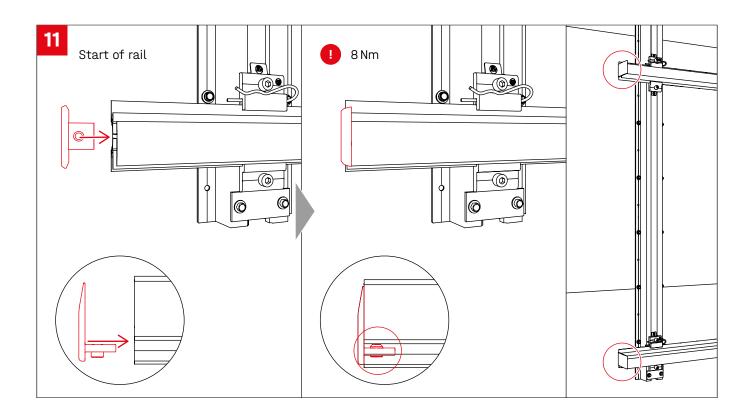


FixStop positioning

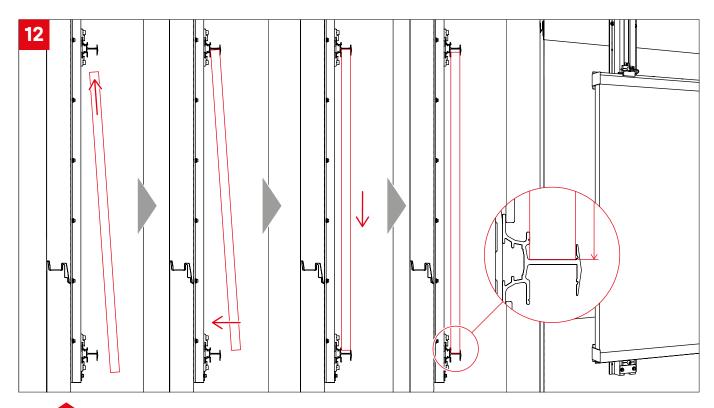




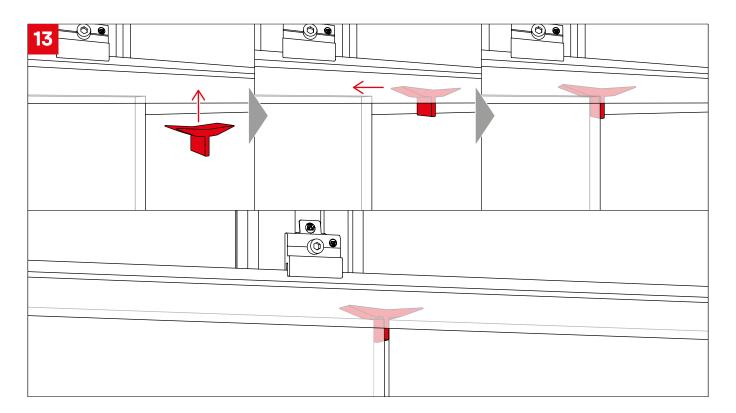


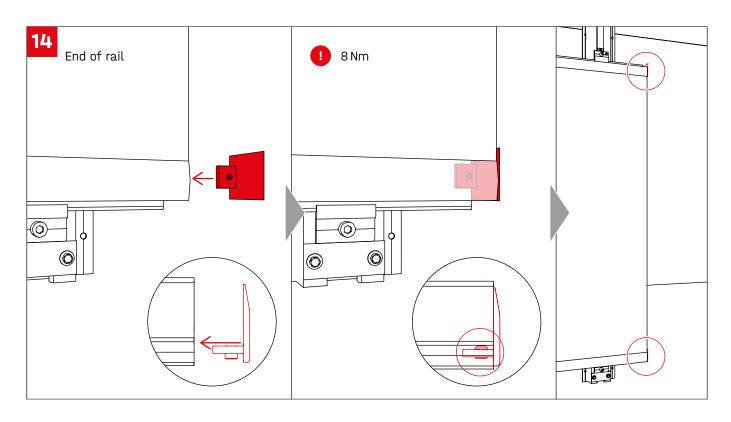




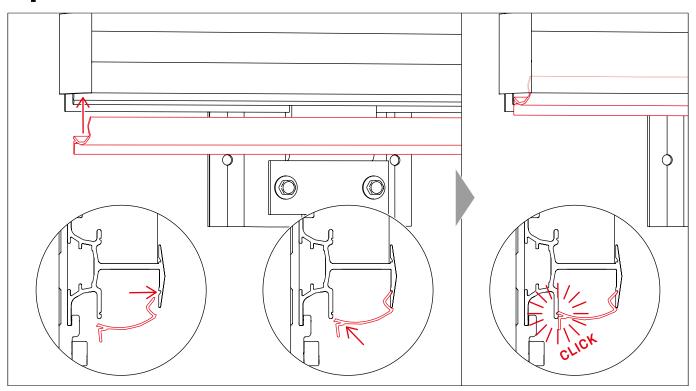


① Optional: Consider step "TerraGrif K2U17" on page 17 for module frame earthing.





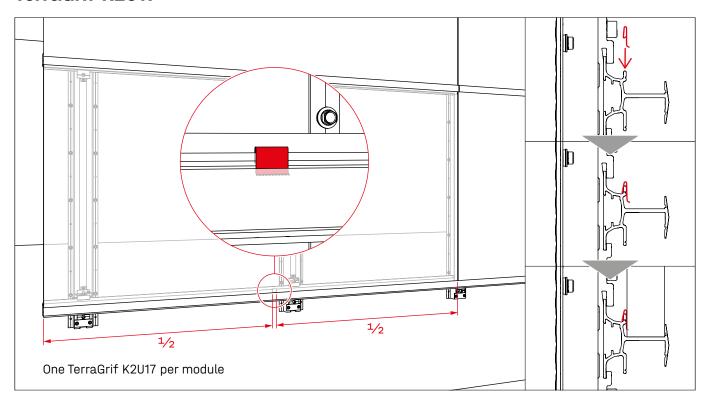
Optional InsertionRail Cover



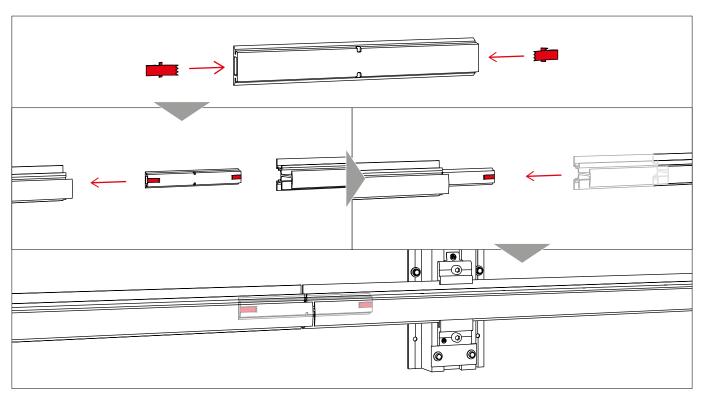
Optional



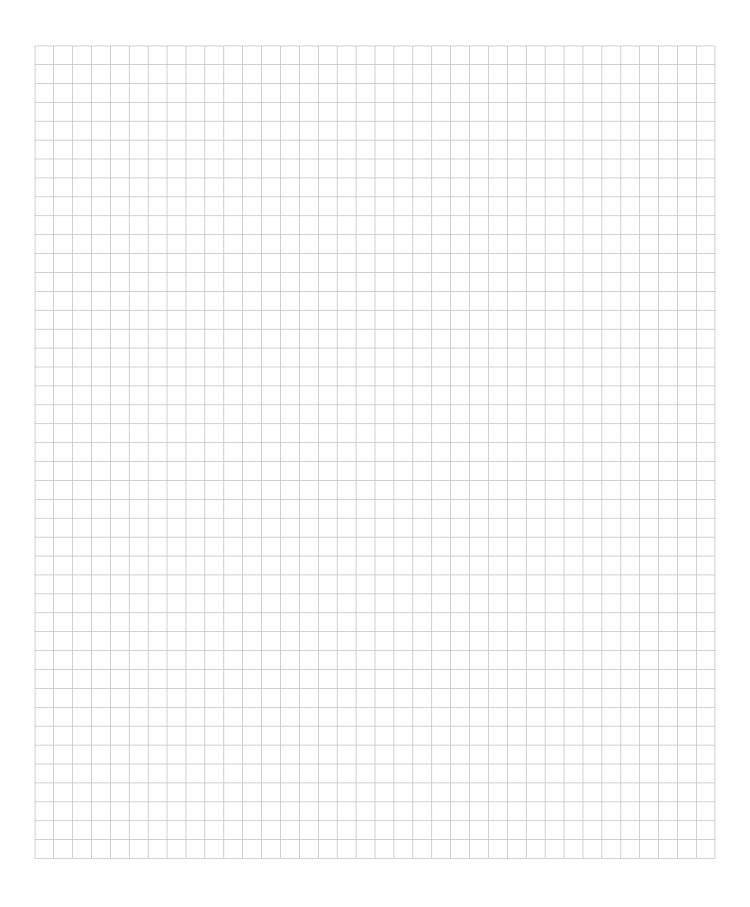
TerraGrif K2U17



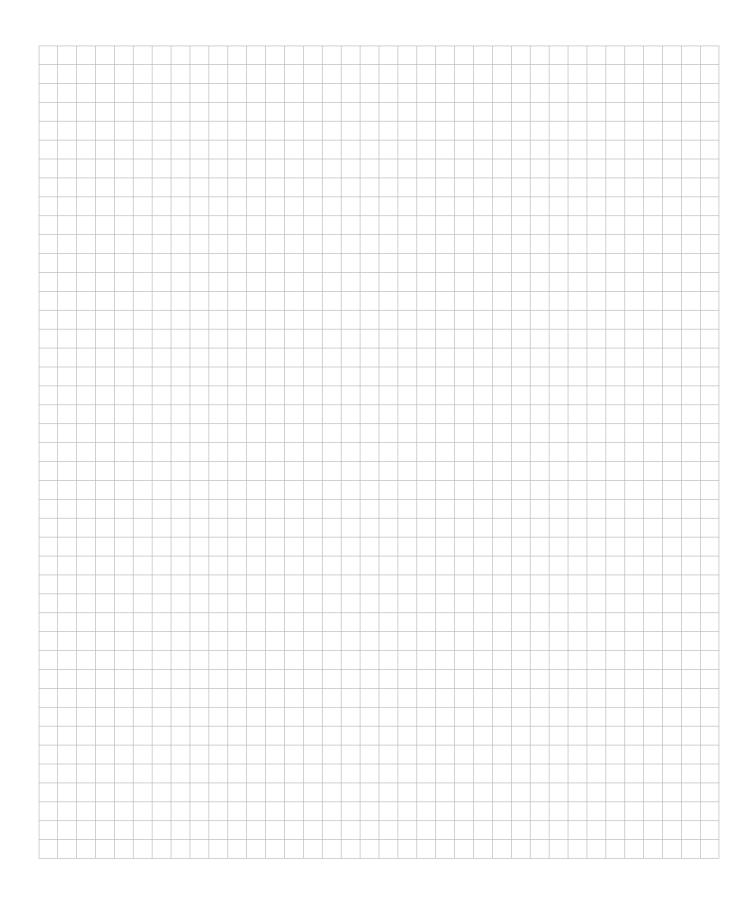
TerraGrif PL



Notes





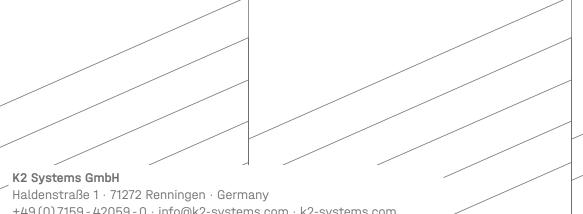


Thank you for choosing a K2 mounting system.

Mounting ystems 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 (0)7159 42059-0

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



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WallPV CarrierRail InsertionRail Assembly EN V2 | 0525

Subject to change · Product illustrations are exemplary and may differ from the original.

