



D-Dome 6 System

Xpress



Content

• Tools overview	3
General safety information	4
 The following guidelines apply Planning with K2 Base Roof requirements Static requirements Important mounting instructions 	5 5 5 5 5
 Components Base components: D-Dome 6 Xpress Ballast Fixed connection to the roof 	6 8 9
 Assembly Installation of module field and thermal separations Module block Ballasting options and specifications Module assembly 	10 10 11 14 16
 Optional assembly steps Fixed connection with Dome FixPro using Solmont mounting base Cable management with Cable-Manager Module frame earthing with TerraGrif Cable management with PVX MultiMount 	17 17 18 18 19
• Notes	21

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.

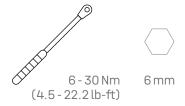
Please find our quality and product certificates under:

k2-systems.com

Tools overview

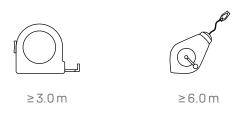








Dome Speed Spacer Large · 2004129 Distance template for module lengths



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

- 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/en/technicalinformation 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. 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.



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

- This system can be installed on all common flat roofs with a pressure-resistant substrate and a roof pitch of ≤ 3° without a fixed connection.
- Fixed connection > 3° to ≤ 10°
 - \circ Up to ≤5° combinations with ballast possible
 - > 5° to ≤ 10° only without ballast
- The roof surface must be clean and dry. Roof irregularities must be corrected or removed where appropriate.
- The coefficient of friction of the roof must be determined on-site. See video

k2-systems.com/en/friction-coefficient



Static requirements

- It is essential to check that the roof structure has sufficient residual load capacity and that the pressure capacity of the roof insulation (where present) is not exceeded.
- Suitable for framed modules with a frame height 30-50 mm
- Permissible module dimensions:
 length 1448 2390 mm, width 950 1170 mm



Important mounting instructions

Mounting system

- A minimum distance to the roof edge of 600 mm must be maintained. For building heights below 5 m, the minimum distance can be reduced.
- The compatibility of the roof covering and the Mat S support pad must be checked.
- At least two elevations must be mounted together in order to use this system.

 Ensure a thermal separation (distance between module blocks) in the direction of the base rail and module rows must be maintained:

· Base Rail: 16.0 m · Module row: 16.0 m

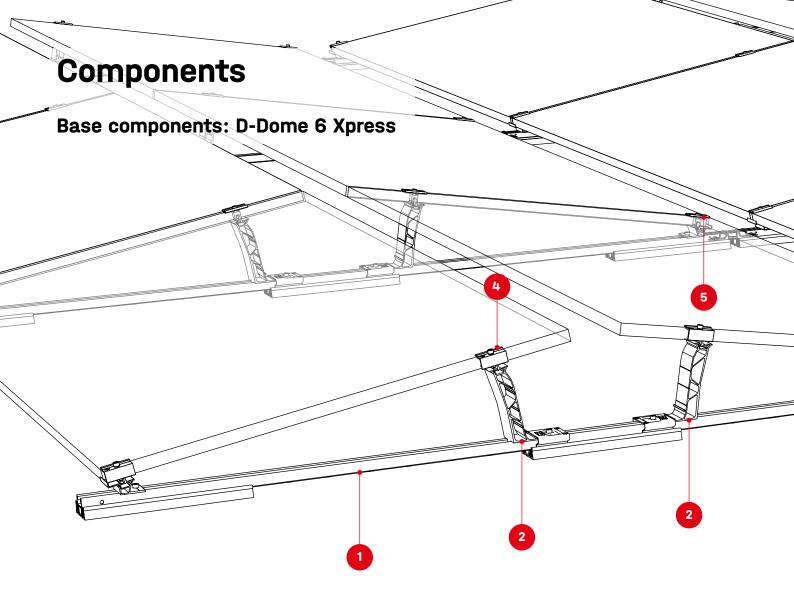
 In the event of exceptional circumstances (such as storms, heavy rain, earthquakes, etc.), the system should be checked by a specialist. Should an inspection find damage or plastic deformation (such as in the module clamp area) the components must be replaced.

Modules and clamping

- Tightening torque of 14 Nm for all module clamps.
- Adhere to module manufacturer recommendations for clamping area and module installation (see module manufacturer instructions). Check whether manufacturer approval is available for clamping on the short module side. See k2-systems.com/ en/approved-modules-dome-6

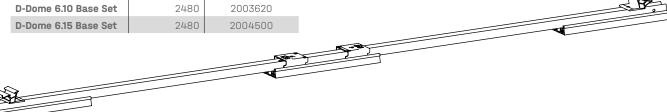
General information

- External influences that act on this system are only reflected in the design of the ballast to a limited degree. For instance, unevenness, thermal elongation, moss, water accumulation and ageing of the sheeting cannot be considered, although these factors might also precipitate system displacement under certain circumstances. We therefore recommend regular maintenance of the system or to check whether additional mechanical fastening is necessary.
- It is important to ensure that the rain water flow is not hindered.
- Because of the different orientation of the solar modules, the string and inverter connection must be appropriately observed. It is recommended that the inverters and strings are connected separately.
- 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).

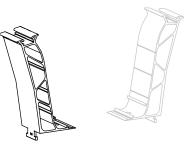


See table for article number! Dome 6 Base Sets

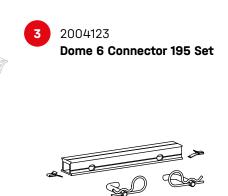
Туре	length [mm]	article number
D-Dome 6.10 Base Set	2480	2003620
D-Dome 6.15 Base Set	2480	2004500

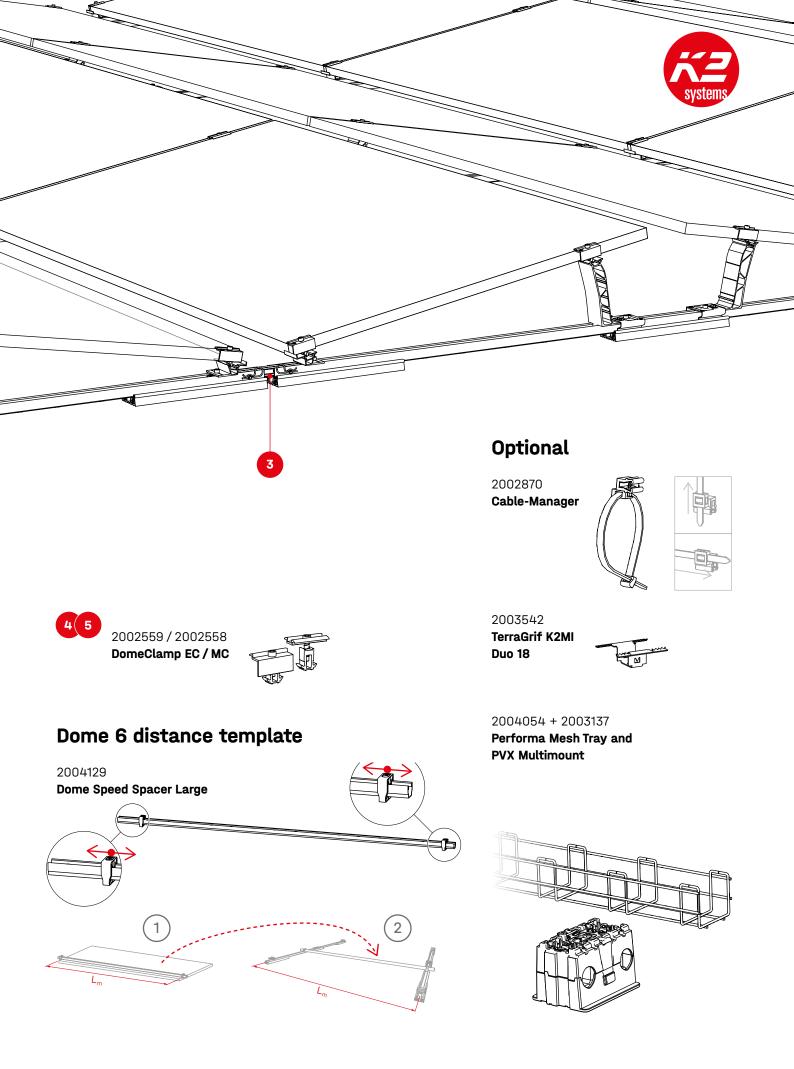






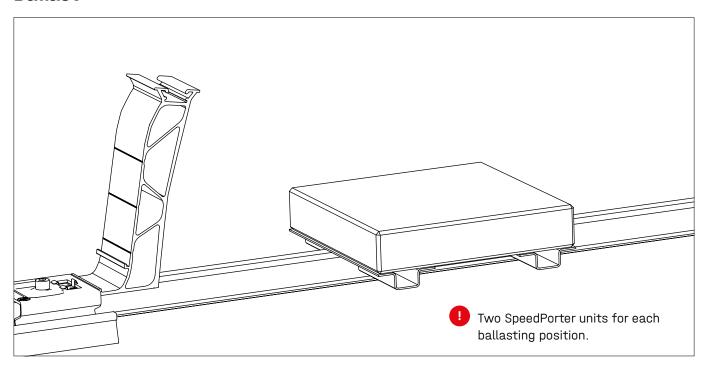


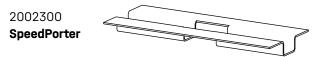


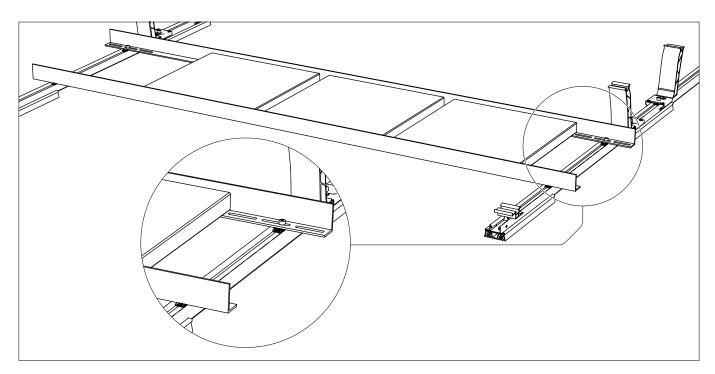


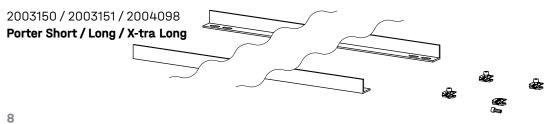
Components

Ballast





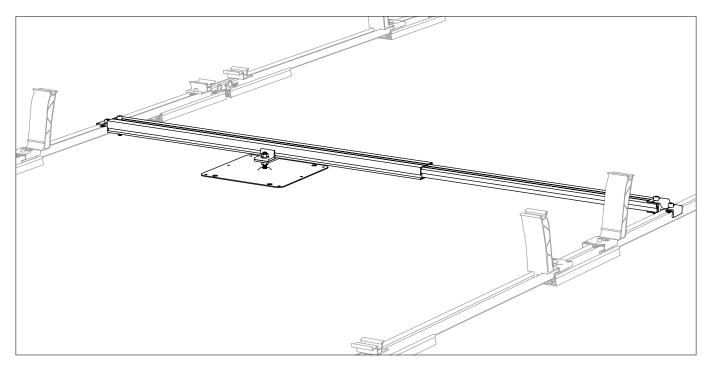




1001643 + 2001729 MK2 Slot nut with clip + Allen bolt M8×20



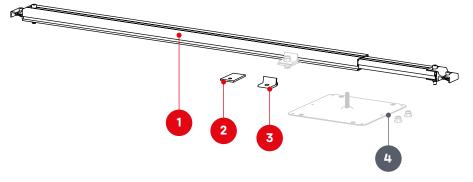
Fixed connection to the roof



- 2004144 **Dome FixPro L**
- 2 2002546 / 2002547 Adapterplatte M10/12
- 2003146 / 2003147 Climber M10/12
- 4 Roof anchor plate

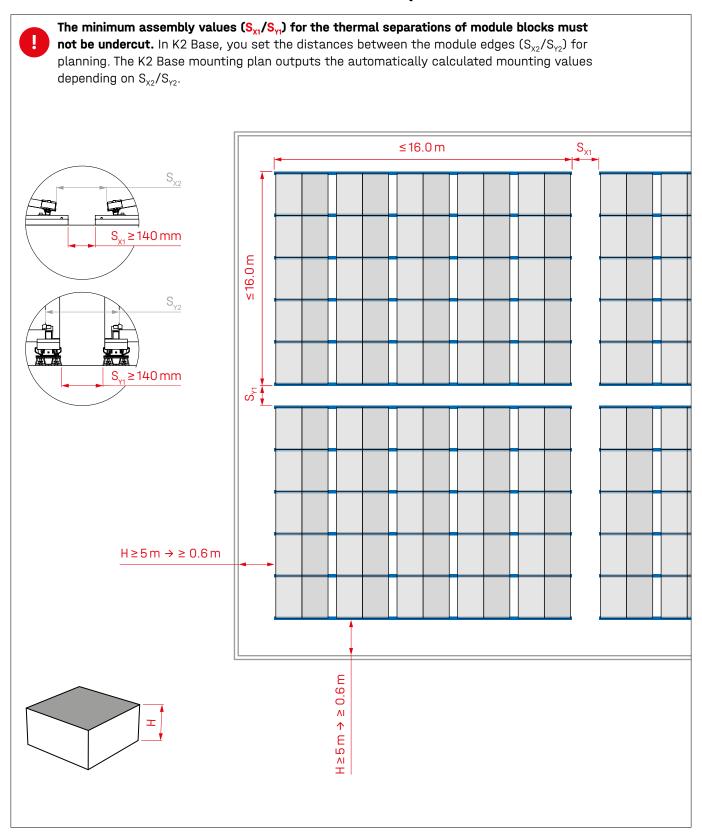
Not included in the K2 product portfolio.

Other fastening elements (e.g. screws and nuts) for fixing to the fastener must be provided by the customer.

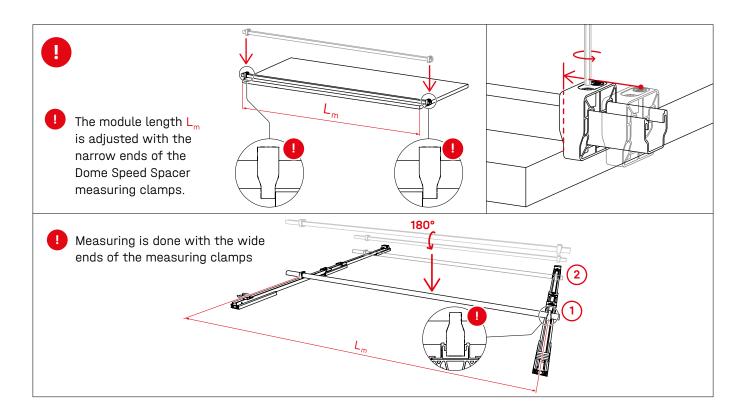


Assembly

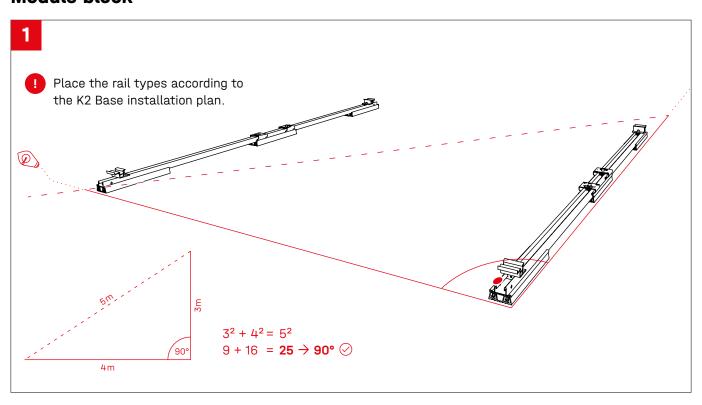
Installation of module field and thermal separations

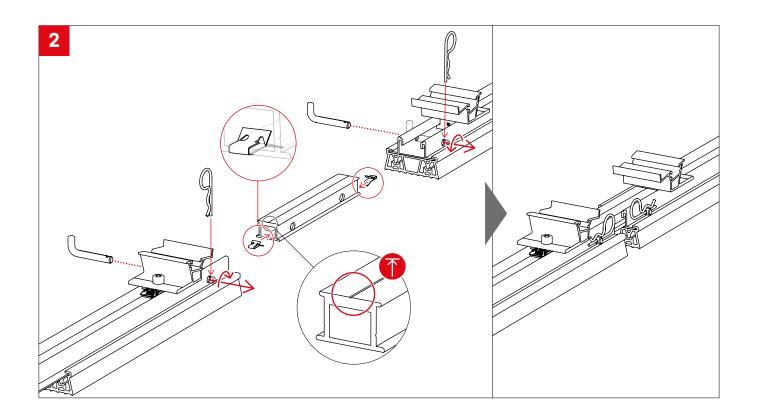


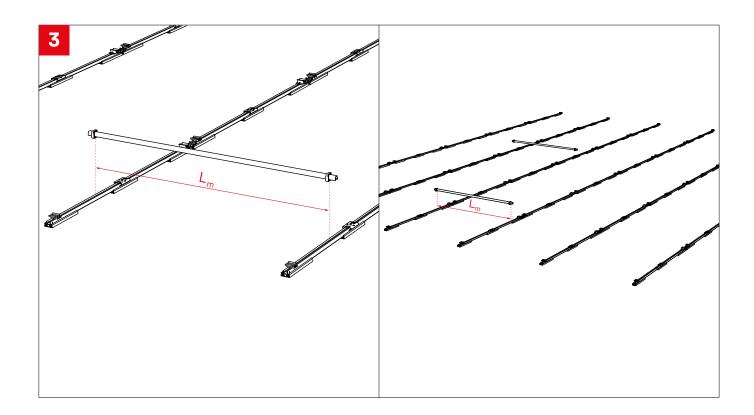




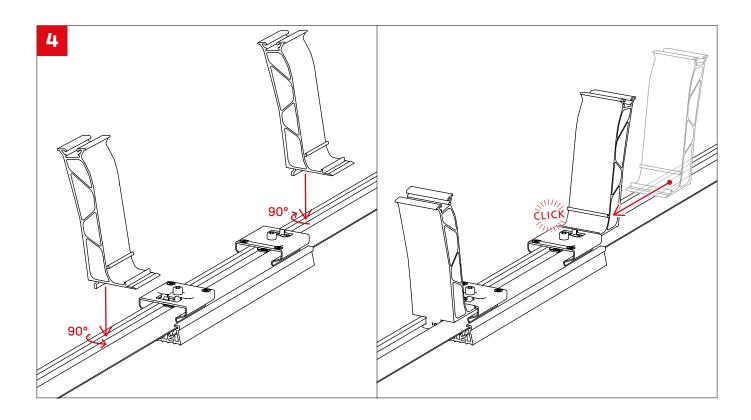
Module block

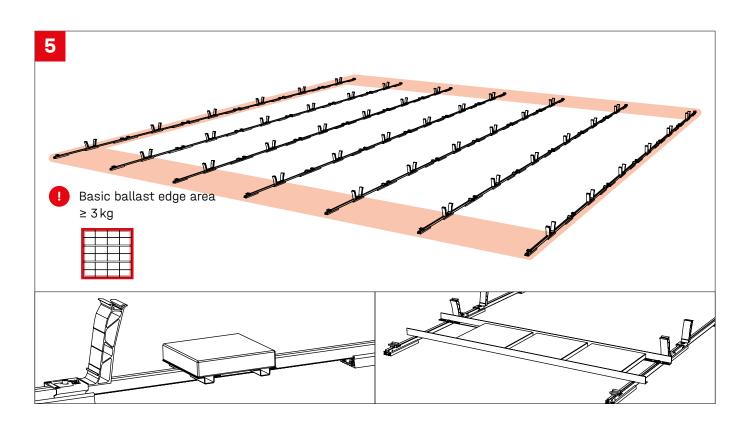




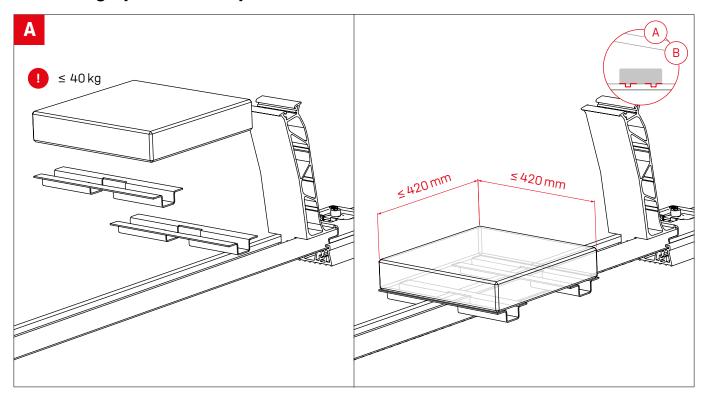


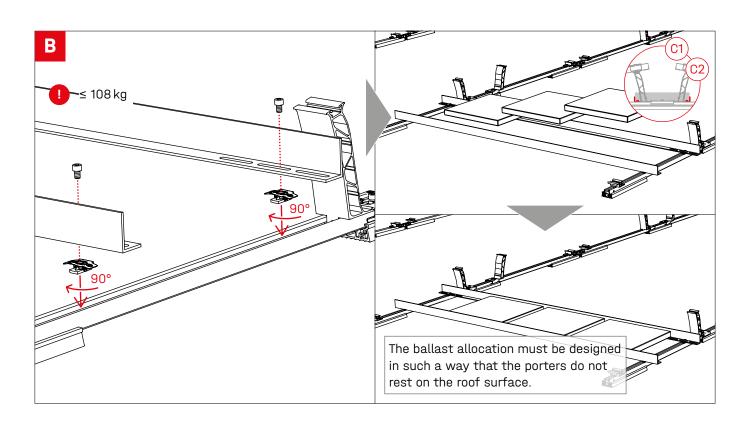




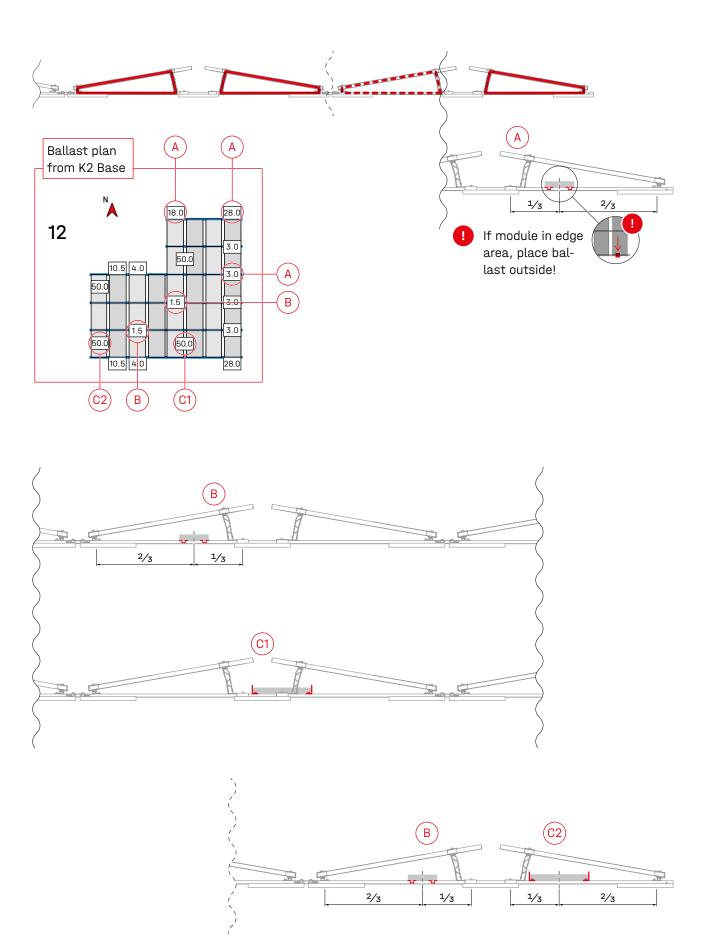


Ballasting options and specifications

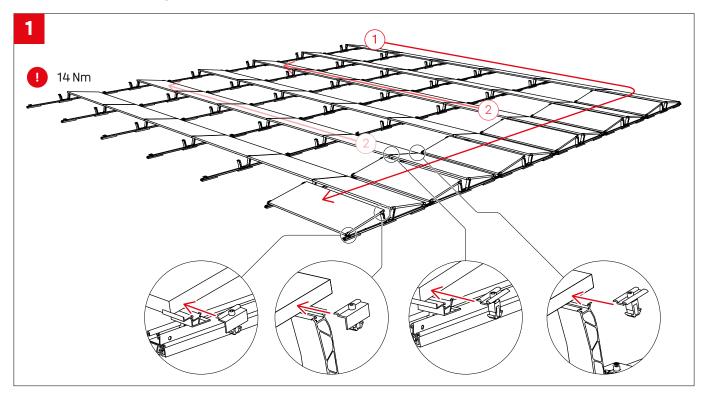


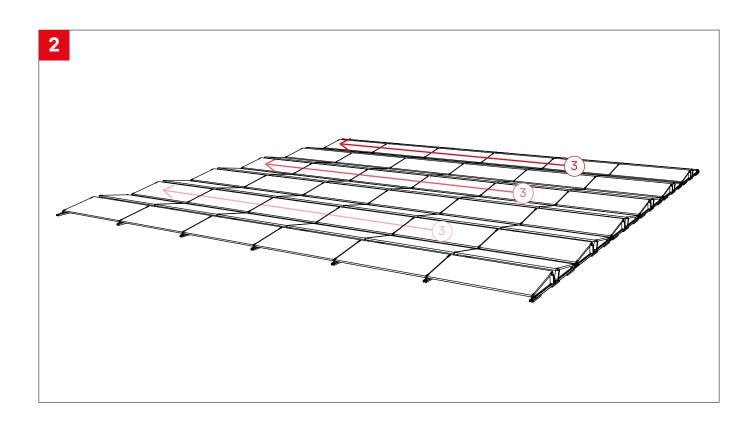






Module assembly

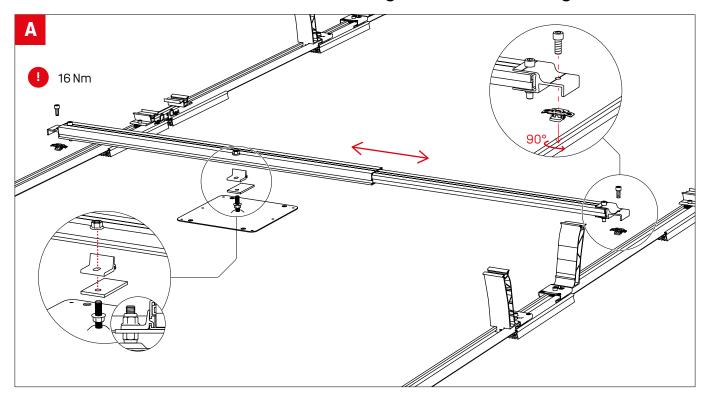


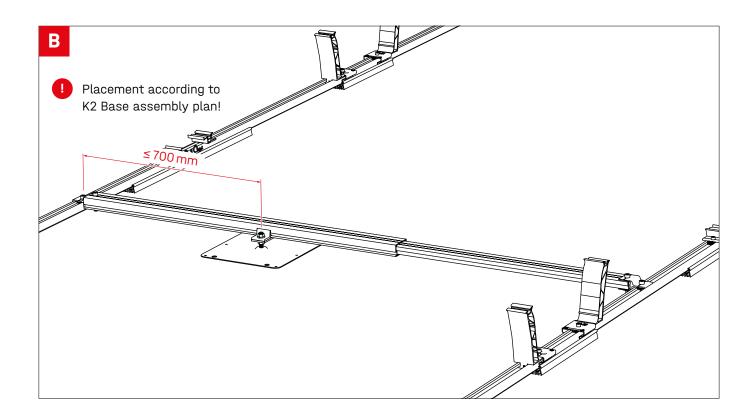


Optional assembly steps

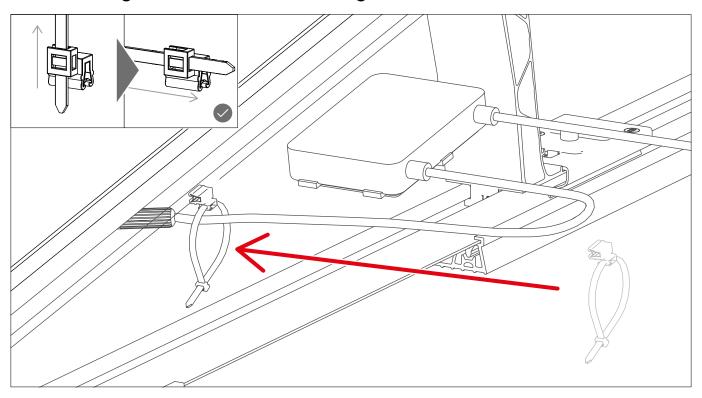


Fixed connection with Dome FixPro using Solmont mounting base

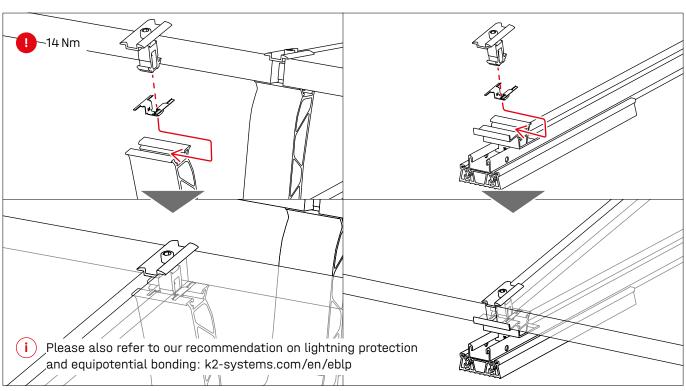




Cable management with Cable-Manager

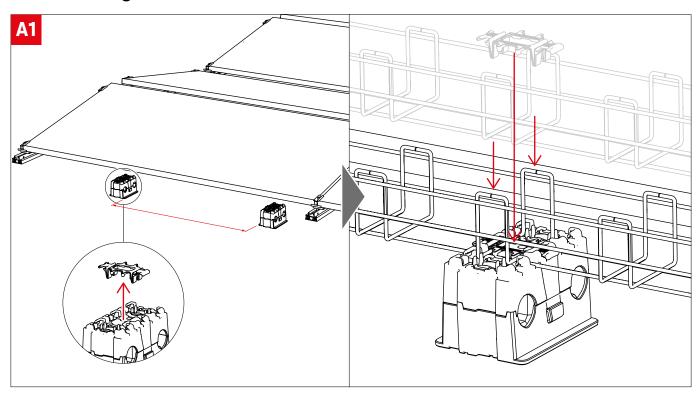


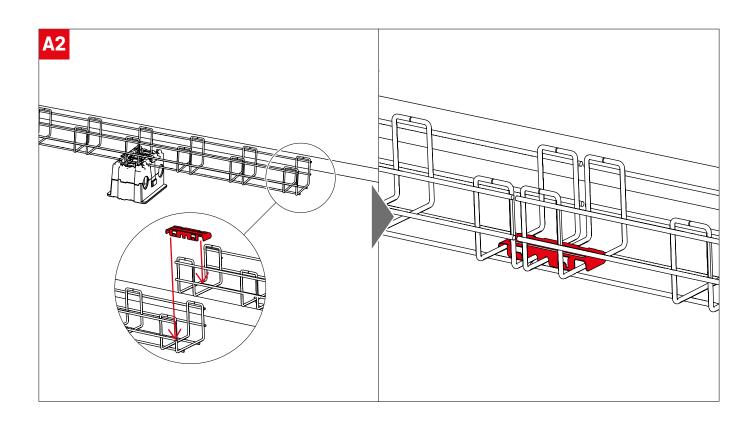
Module frame earthing with TerraGrif

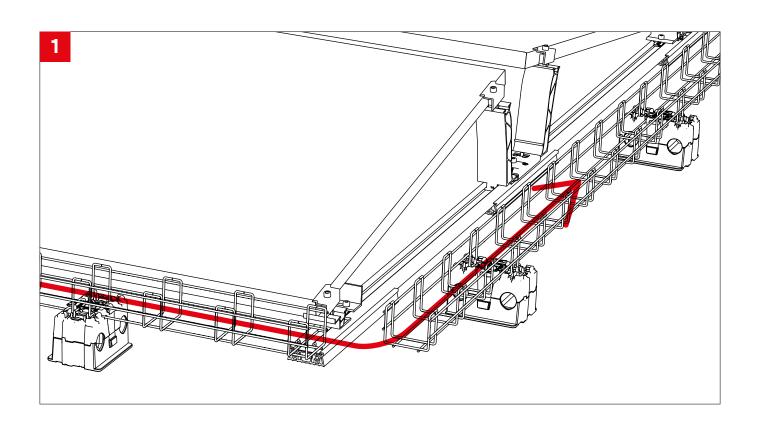


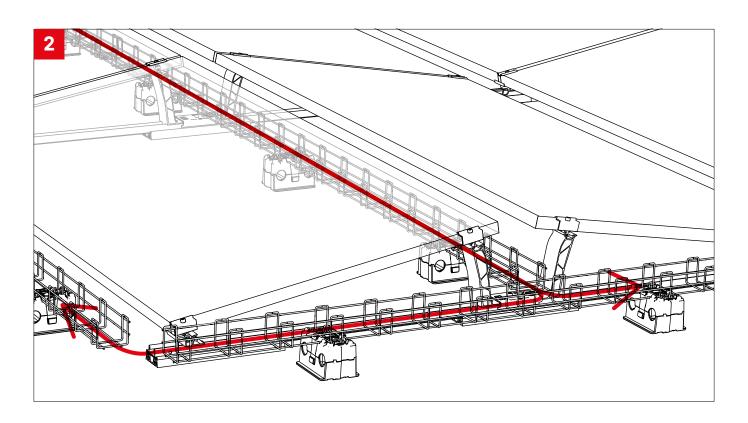


Cable management with PVX MultiMount



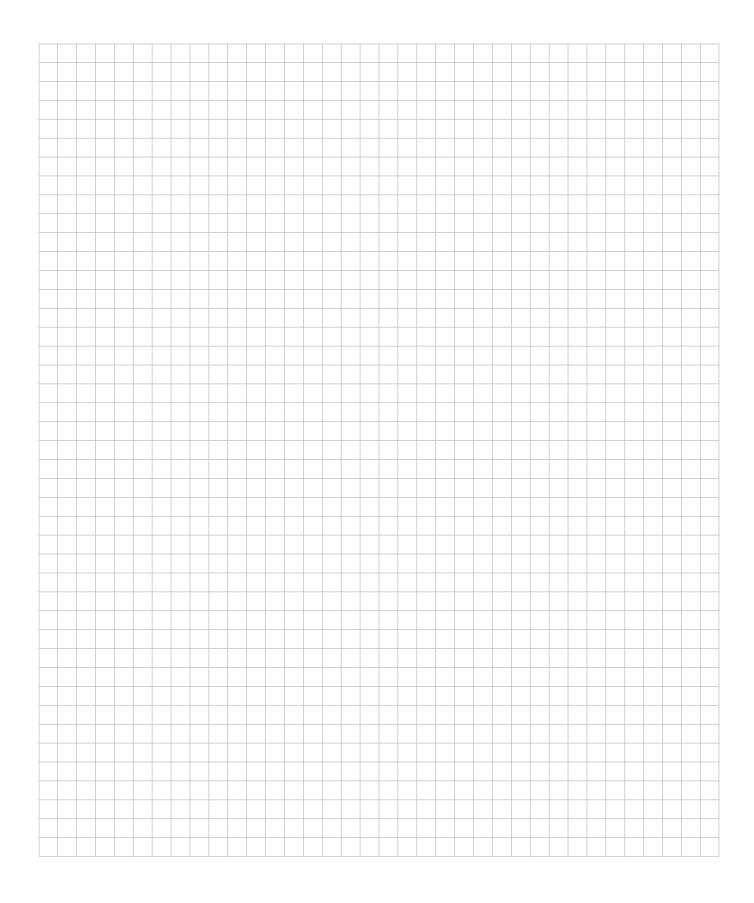




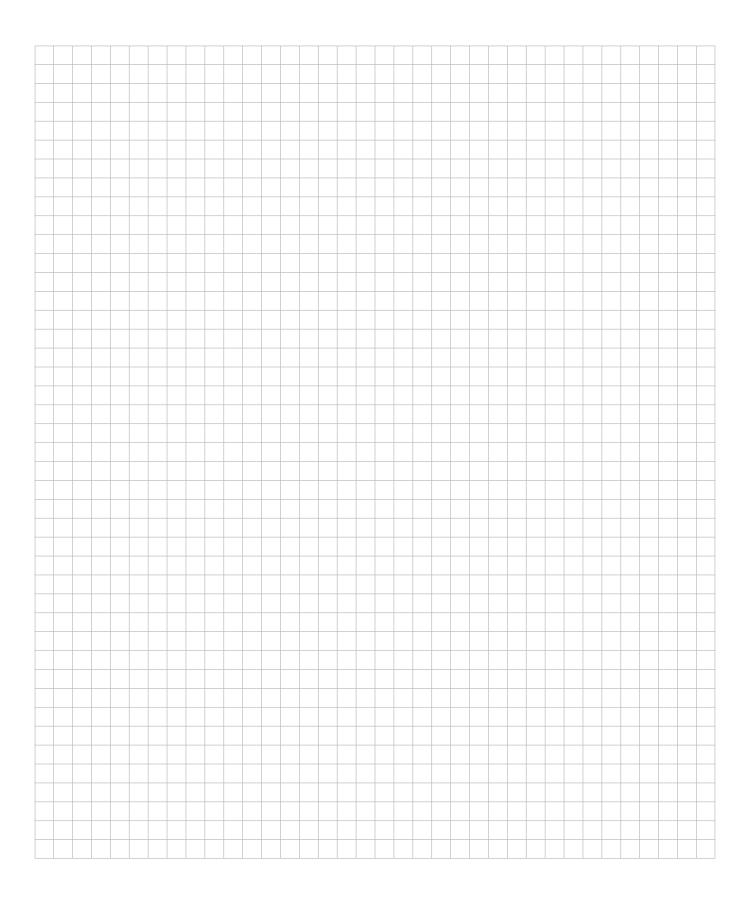


Notes

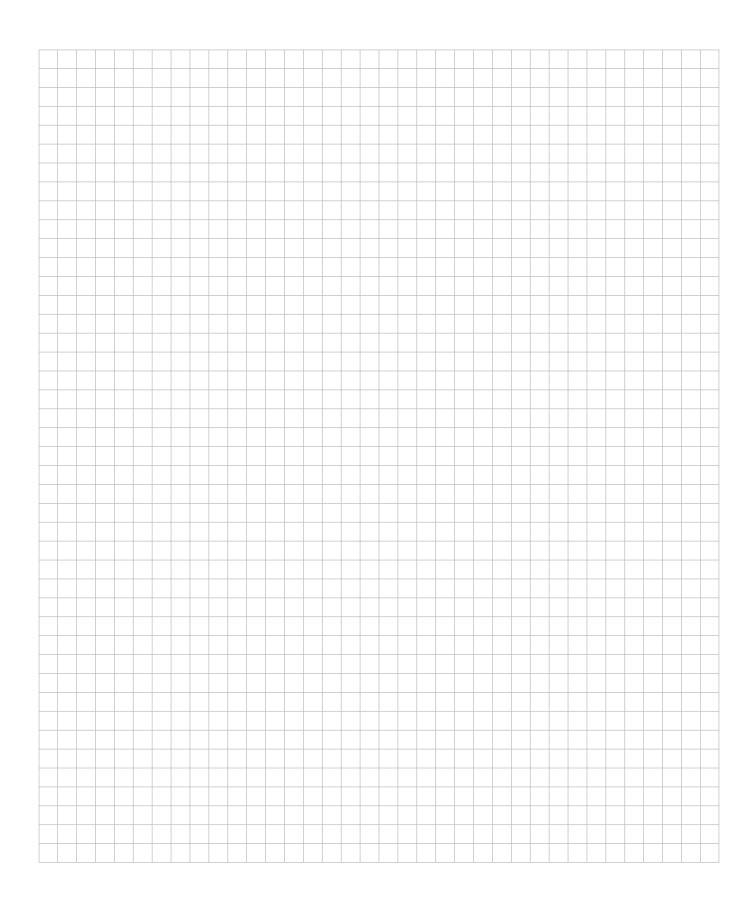




Notizen







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: +49715942059-0

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

