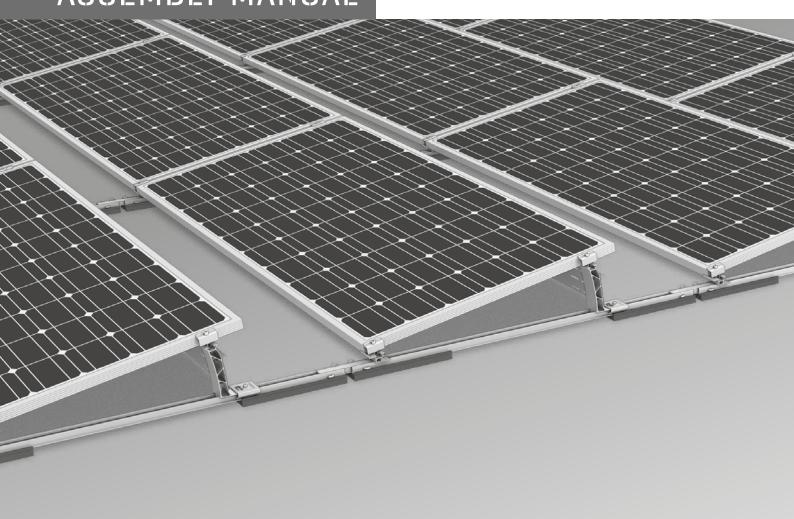


S-Dome 6 Xpress System

ASSEMBLY MANUAL







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Quality tested - several certifications

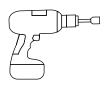
K2 Systems stands for secure connections, highest quality and precision. Our customers and business partners have known that for a long time. Independent institutes have tested, confirmed and certified our capabilities and components.

Please find our quality and product certificates under:

k2-systems.com/en/technical-information

Tools overview







6 mm





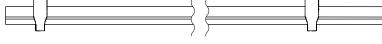
6 mm





6 mm

 \longleftrightarrow



Dome Speed Spacer 2.25 / 2.50 · 2003253 / 2004219 Distance template for module lengths







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 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



The S-Dome 6 Xpress System can be installed as standard under the following conditions. Even if the system is capable of meeting higher demands through the integration of safety standards, please get in touch with your contact at K2 Systems if the specified values are exceeded..



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°
 - · Up to ≤5° combinations with ballast possible
 - $\cdot >$ 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 1562 2390 mm, width 950 1170 mm

- Ensure a thermal separation (distance between module blocks) after a maximum of 15 m in the module row direction and in the direction of the base rail.
- 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

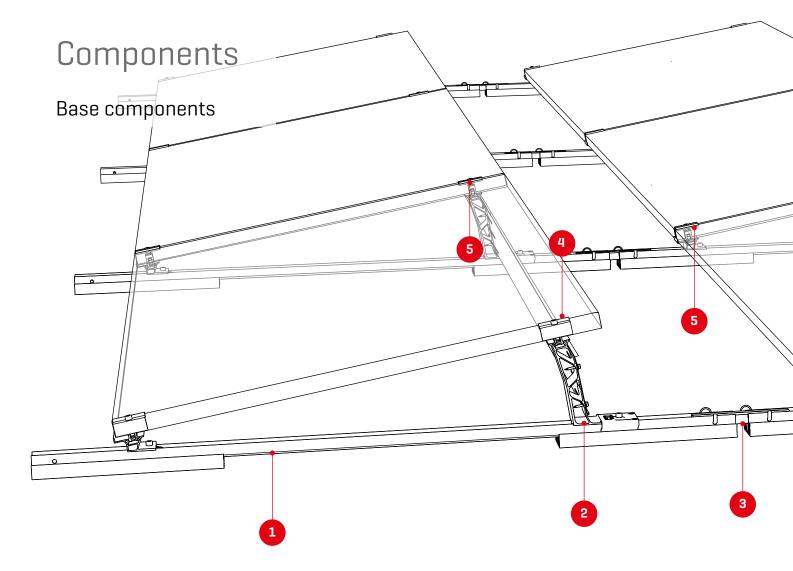
- External influences that act on this system are only reflected in the design of the ballast to a limited degree. For instance, unevenness, thermal elongation, moss, water accumulation and ageing of the sheeting cannot be considered, although these factors might also precipitate system displacement 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.
- 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).



Important mounting instructions

Mounting system

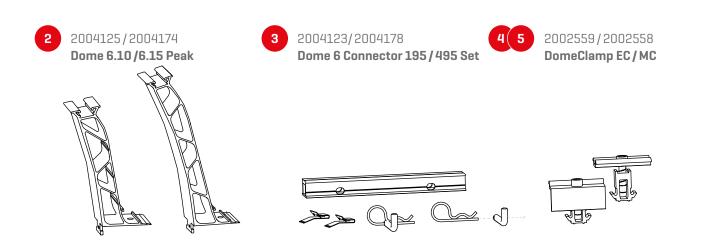
- A minimum distance to the roof edge of 600 mm must be observed. For building heights below 5 m, the minimum distance can be reduced.
- The compatibility of the roof covering and the Mat S support pad must be checked.
- A module block must consist of at least two elevations must for this mounting system to be properly utilized.

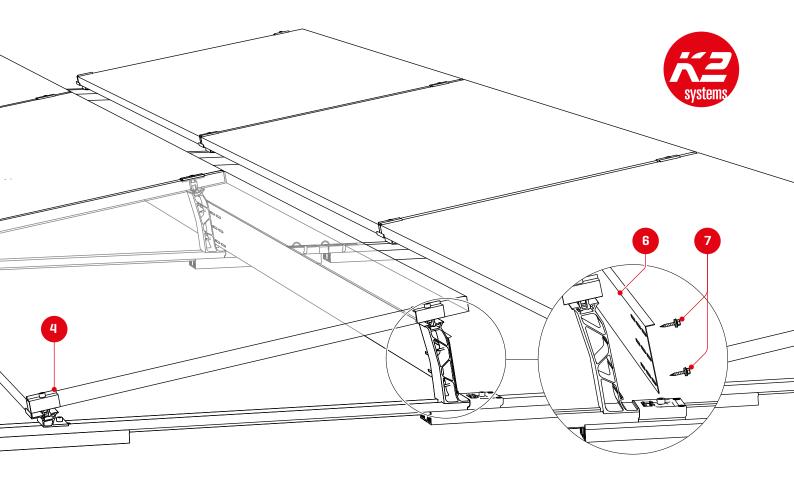


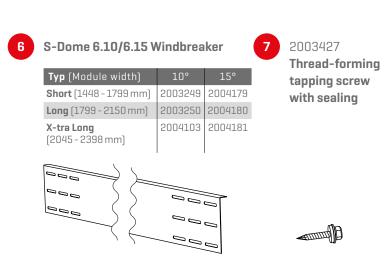
Article number see table!
S-Dome 6 Base Sets

Туре	Length [mm]	Article number
Standard 6.10	1450	2003247
L Set 6.10	1500	2004096
Standard 6.15	1820	2004176





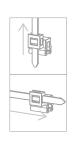




Optional

2002870 Cable-Manager

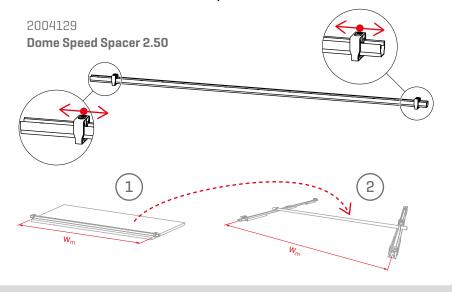




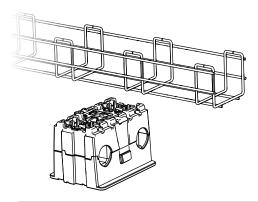
2003542 TerraGrif K2MI Duo 18





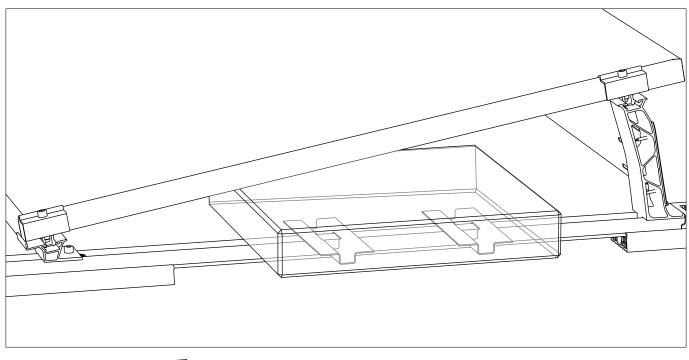


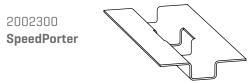
2004054 + 2003137 Performa Mesh Tray and PVX Multimount

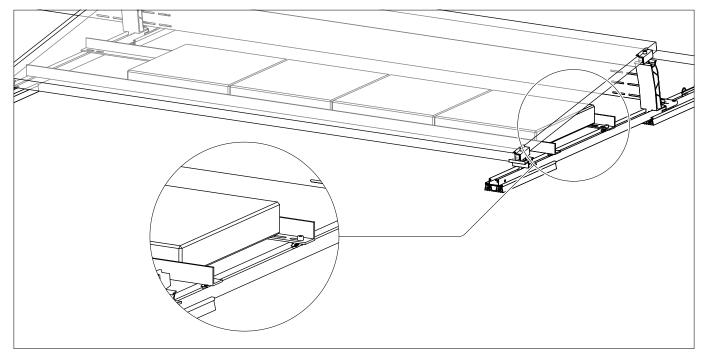


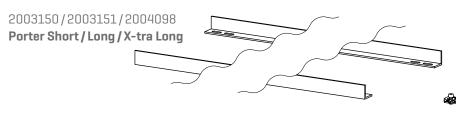
Components

Ballast





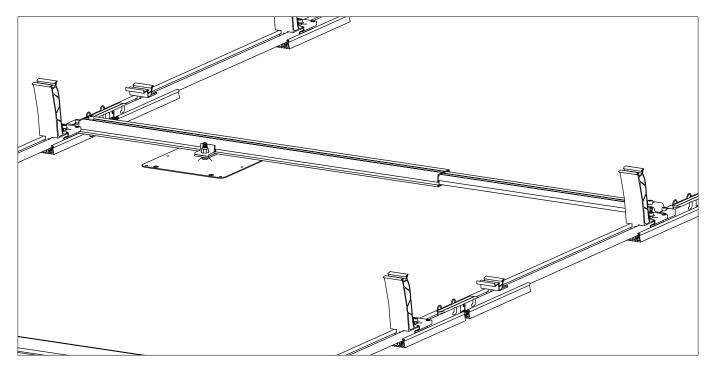




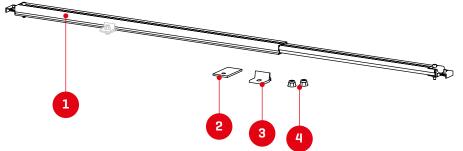
1001643 + 2001729 MK2 Slot nut with clip + Allen bolt M8×20



Fixed connection to the roof

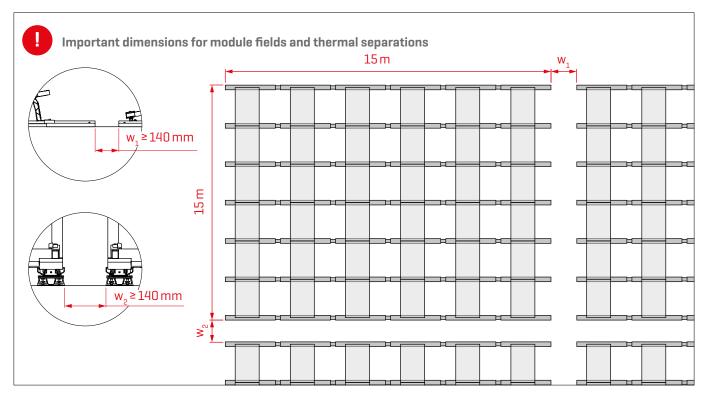


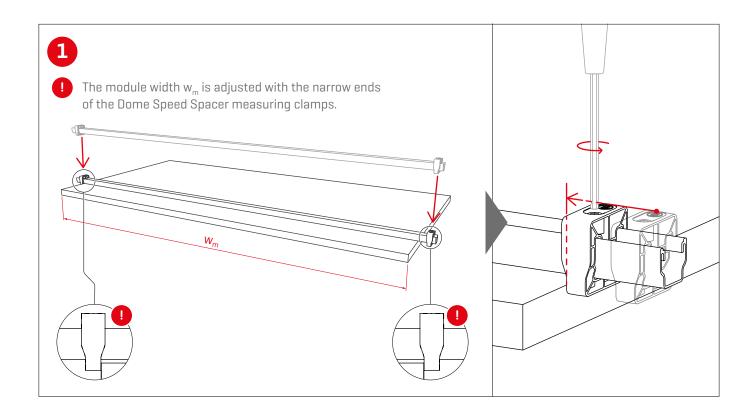
- 1 2004144 Dome FixPro L
- 2 2002546 / 2002547 Adapter plate M10/12
- 3 2003146 / 2003147 Climber M10/12
- Other fastening elements (e.g. screws and nuts) for fixing to the fastener must be provided by the customer.



Assembly

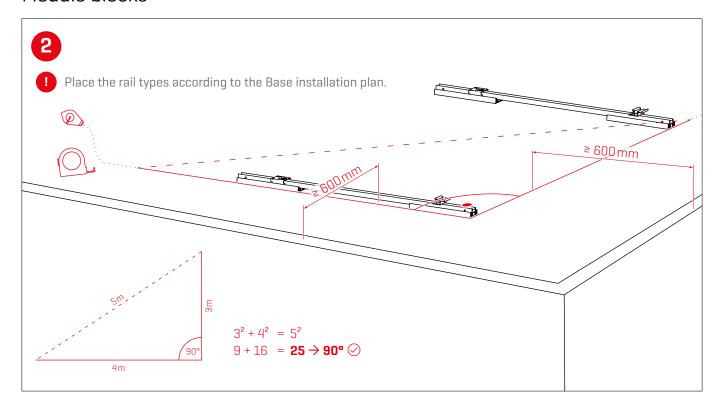
Installation of module field and thermal separations

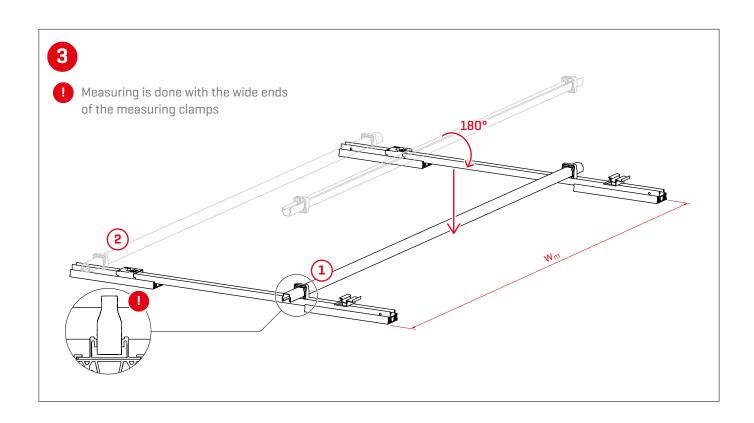




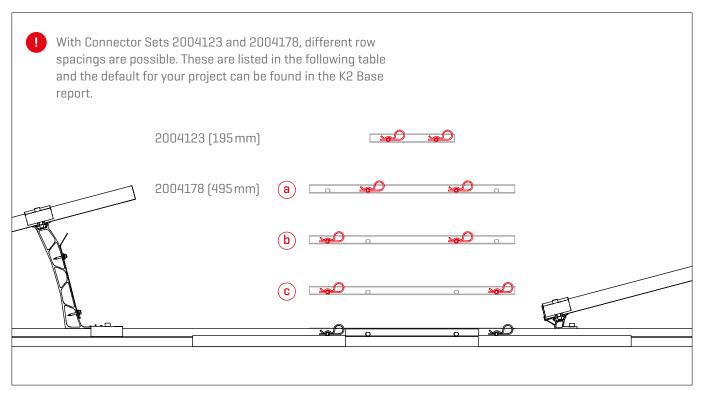


Module blocks





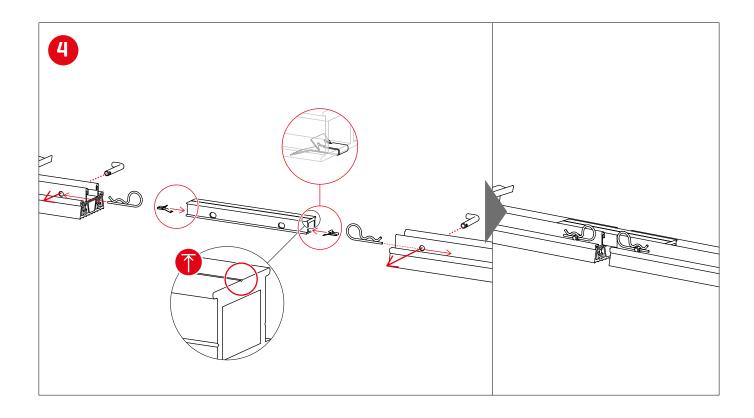
Row spacing settings

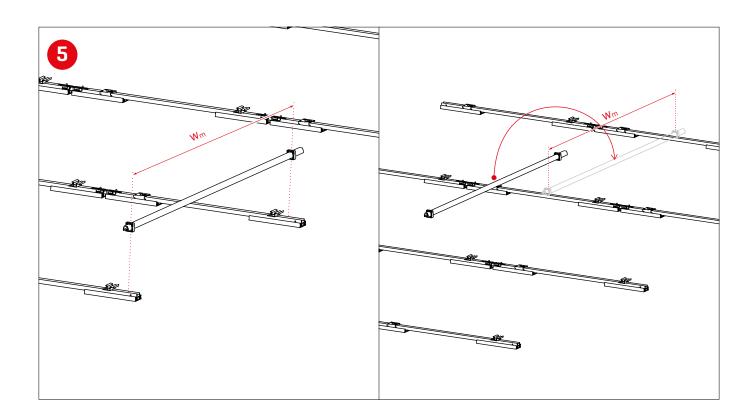


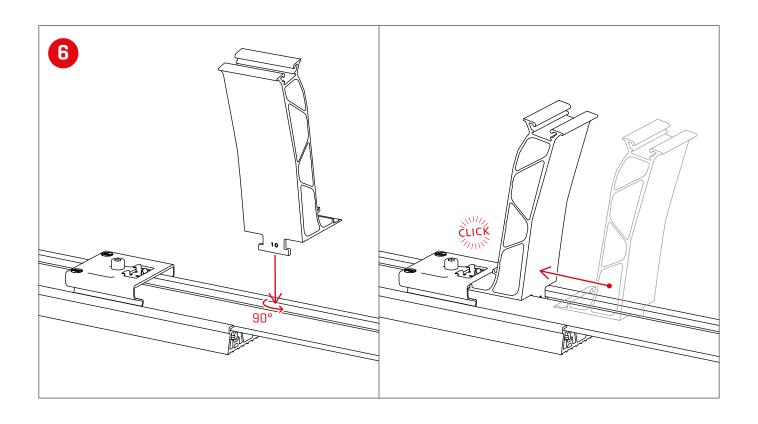
Row spacing in relation to Connector Set

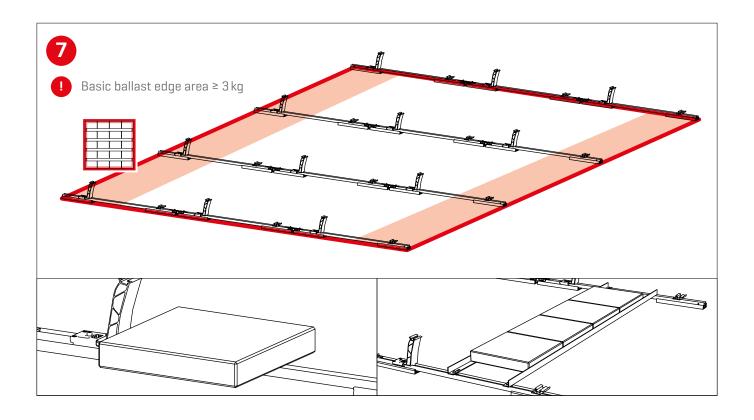
Rail Set		Permissible module widths				
		[mm]		2004178 a	2004178 b	2004178 C
Standard 6.10	2003247	950 - 1060	1480	1580	1680	1780
L Set 6.10	2004096	1061-1170	1530	not possible	1730	1830
Standard 6.15	2004176	1061 - 1170	1850	1950	2050	2150





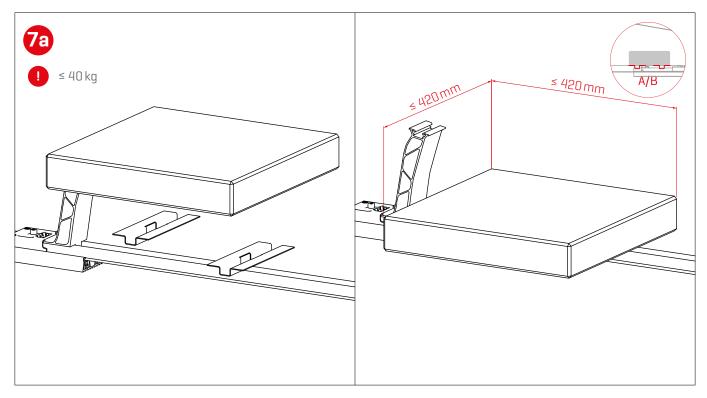


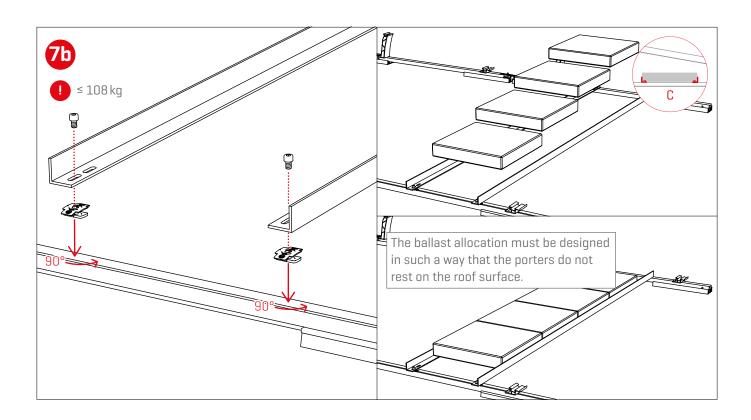




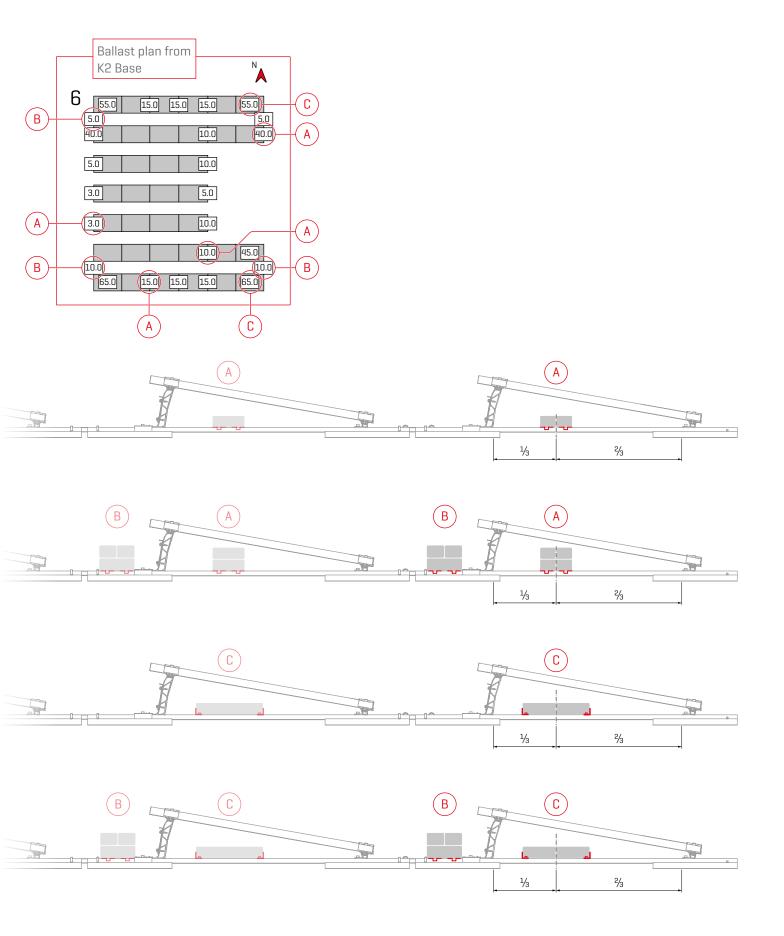


Ballasting options and specifications

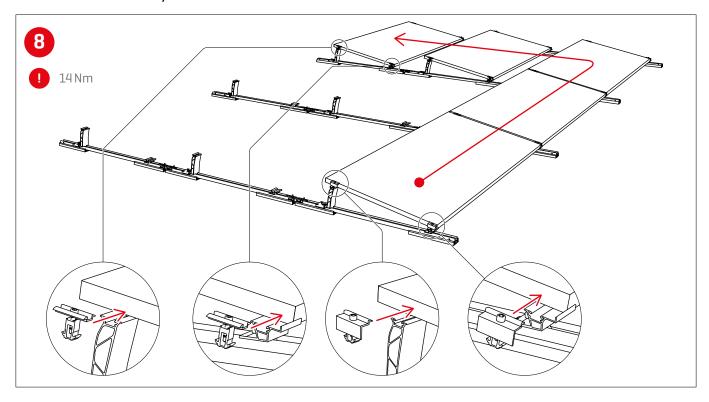


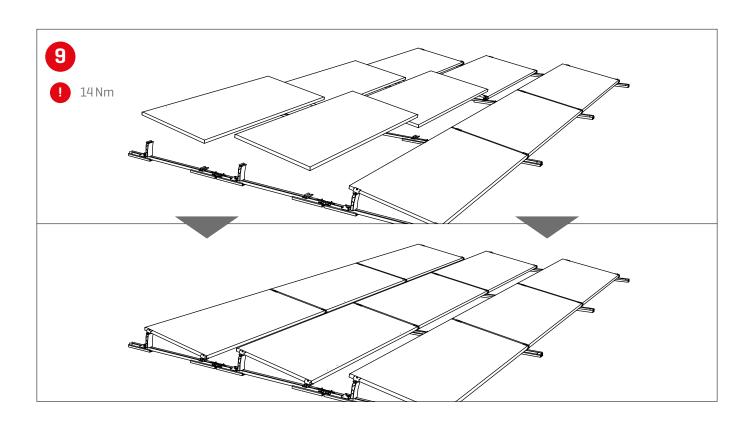






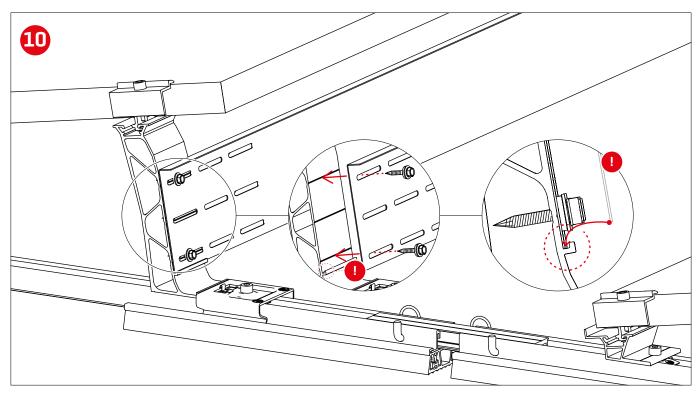
Module assembly

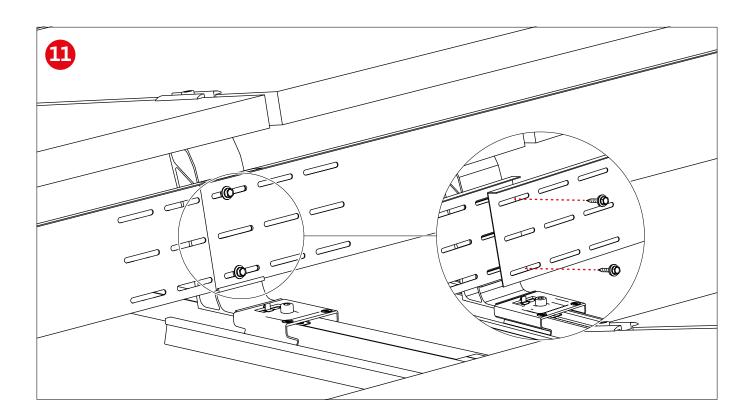






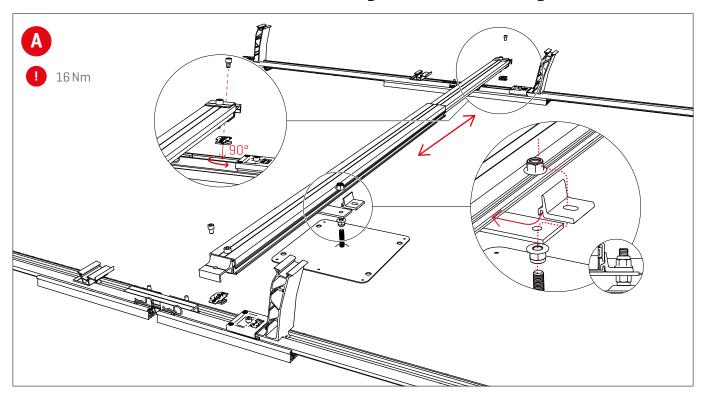
Assembly Windbreaker

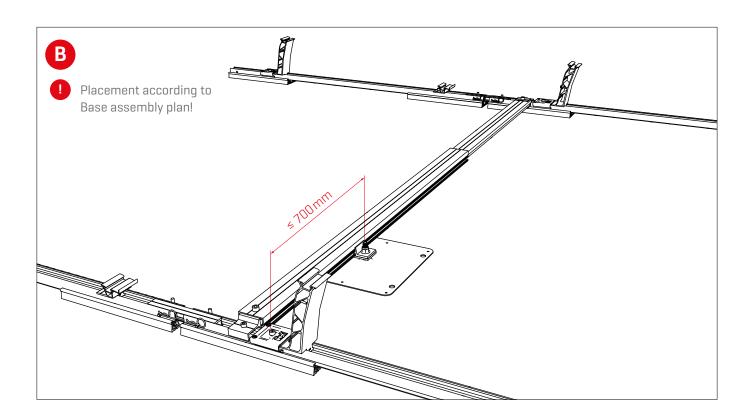




Optional assembly steps

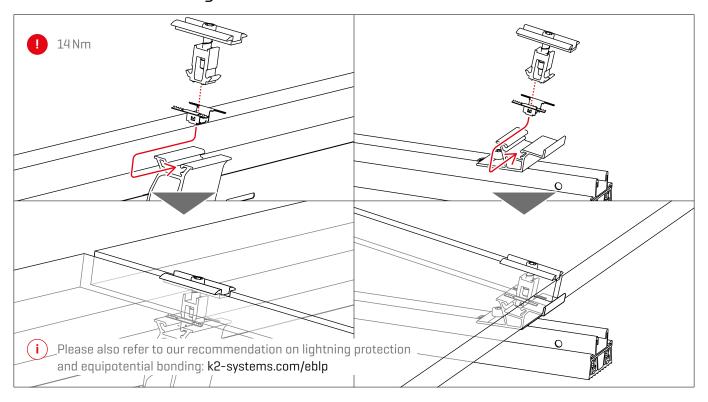
Fixed connection with Dome FixPro using Solmont mounting base



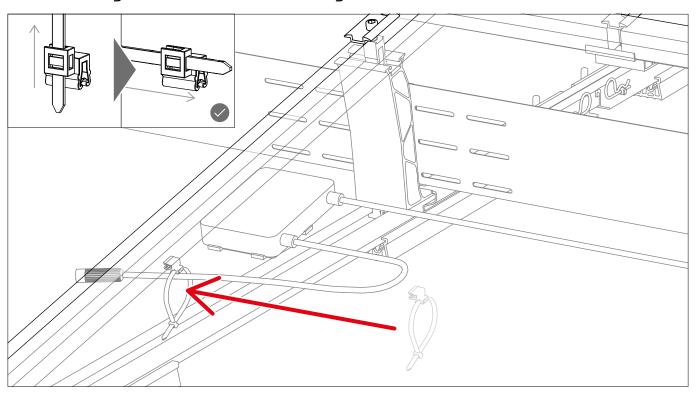




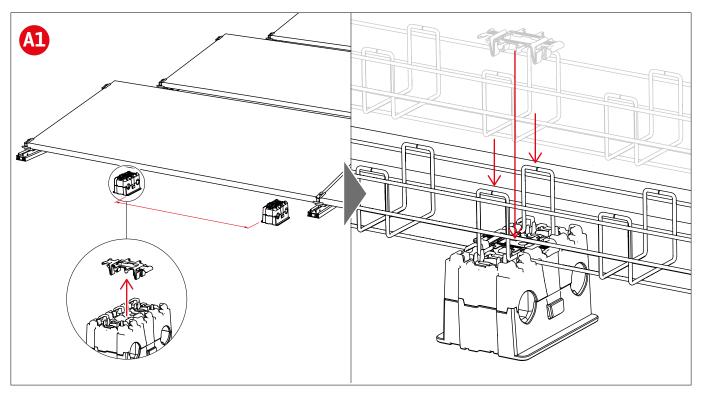
Module frame earthing with TerraGrif

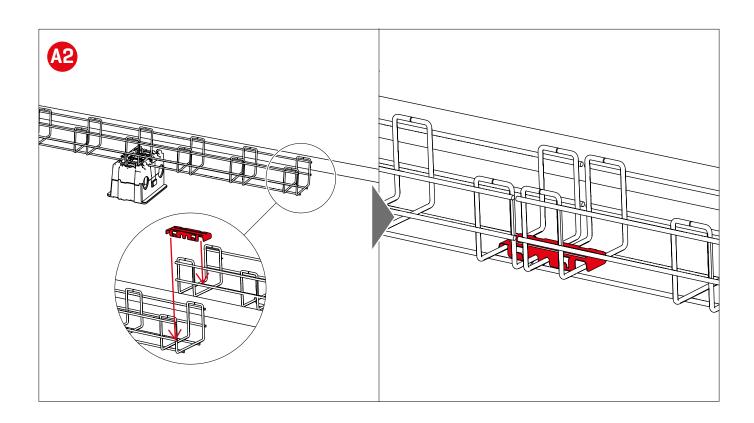


Cable management with Cable-Manager

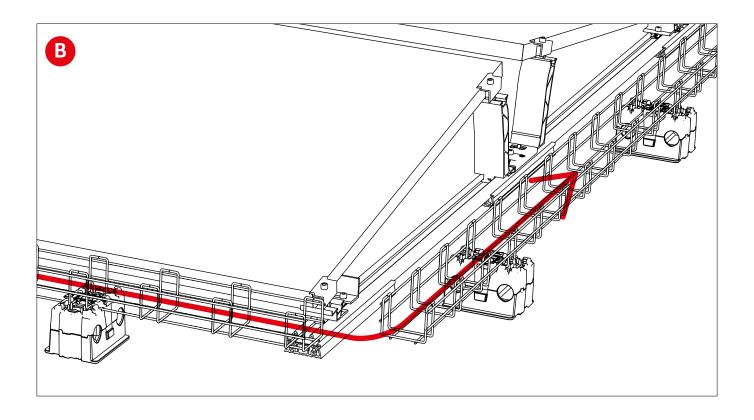


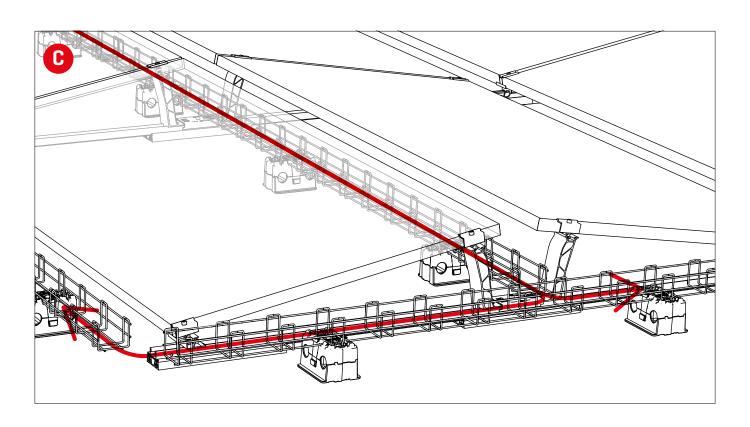
Cable management with PVX MultiMount











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:

- ▶ 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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