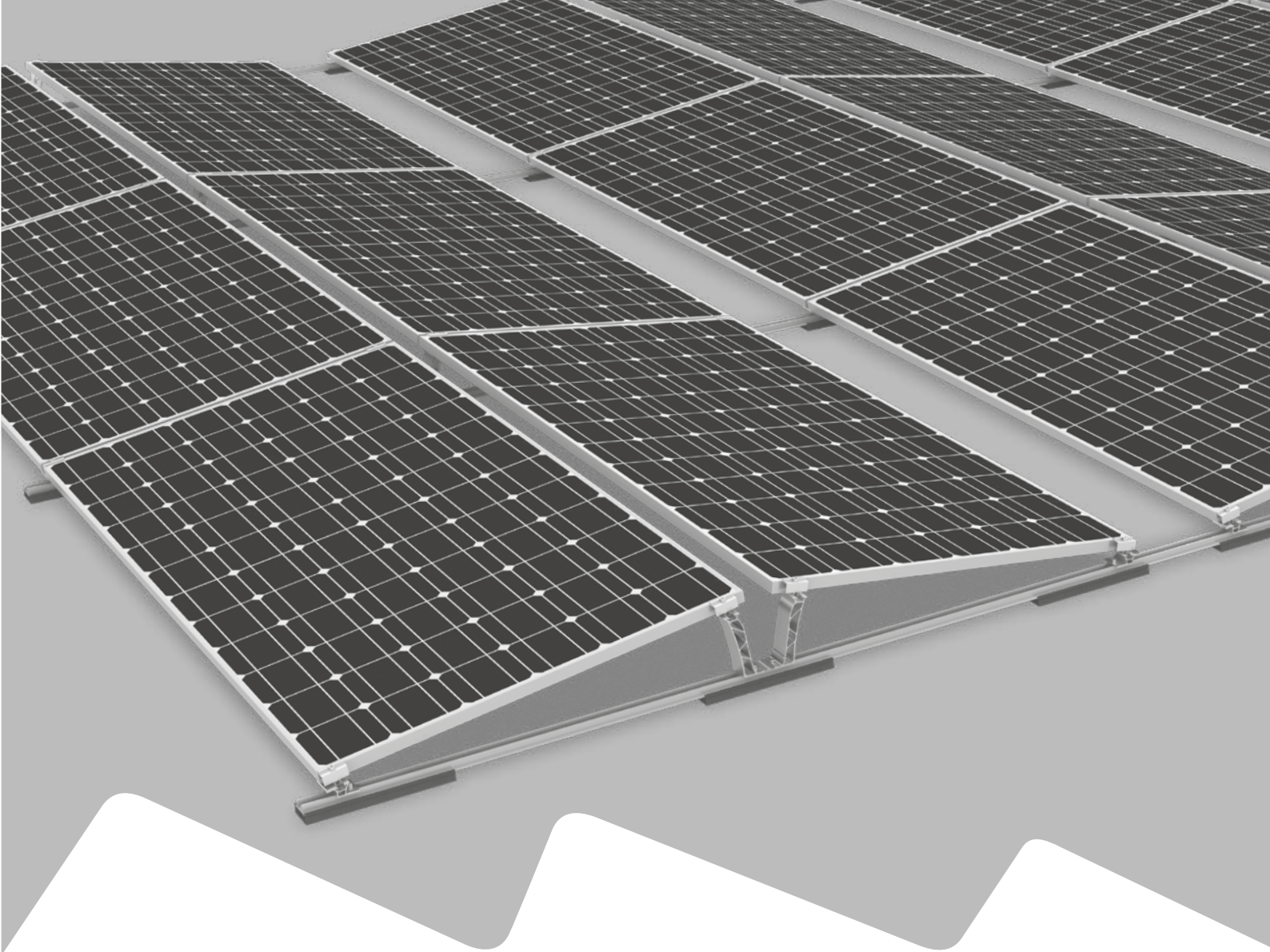




Navodila za vgradnjo

Sistem D-Dome 6

Classic



Connecting Strength

k2-systems.com

Vsebina

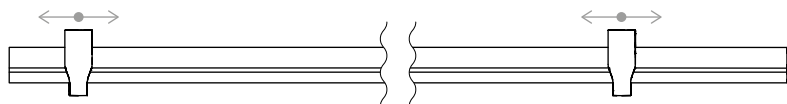
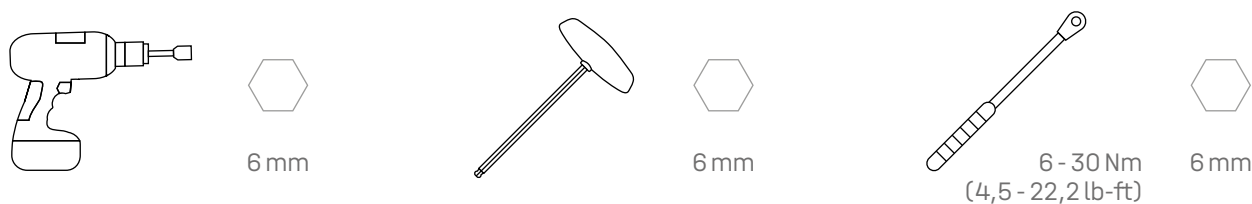
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Quality tested - several certifications

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.

Na naslovi k2-systems.com boste našli naše certifikate kakovosti in certifikate za posamezne izdelke.

Pregled orodja



Dome Speed Spacer Large · 2004129
Distančnik za dolžino modula



Digitalna orodja



Že poznate naše digitalne storitve? Uporabite našo aplikacijo K2 DocuApp in takoj pri stranki ali na kraju samem zabeležite prve pomembne podatke.

Podatke nato povsem preprosto vključite v našo spletno programsko opremo za načrtovanje K2 Base. Tukaj lahko projekt projektirate povsem preprosto, zanesljivo in hitro. Dobili boste celovito poročilo o projektu skupaj z načrtom vgradnje in statičnim poročilom. Vmesnik K2+ omogoča nato nemoten prenos projektnih podatkov v orodja za načrtovanje drugih proizvajalcev.

Z aplikacijo K2 DocuApp hitro in preprosto uredite projektno dokumentacijo – brez nadležne papirologije.

Registrirajte se še danes:

docuapp.k2-systems.com →

base.k2-systems.com →

Splošna varnostna navodila

Upoštevaty morate naša splošna navodila za vgradnjo.

Na voljo so na naslovu k2-systems.com

- Sistem smejo vgraditi in na njih opraviti prvi zagon samo osebe, ki so zaradi svoje strokovne primernosti (npr. izobrazbe ali dejavnosti) oz. izkušenj sposobne zagotoviti izvedbo skladno s predpisi.
- Pred vgradnjo morate preveriti, ali je izdelek usklajen z zahtevami za statiko na kraju samem. Pri strešnih sistemih morate vedno preveriti nosilnost strehe objekta.
- Obvezno upoštevajte državne in krajevne predpise, standardne ter določila za varovanje okolja.
- Upoštevaty je treba predpise za varstvo pri delu in preprečevanje nesreč, zadevne standarde ter predpise poklicnih združenj! Zlasti morate upoštevati naslednje:
 - Nosite zaščitna oblačila (predvsem zaščitno čelado, delovno obutev in rokavice).
 - Pri delih na strehi upoštevajte predpise za delo na strehi (npr. uporaba varoval pred padcem, odra z lovilno pripravo pri višini kapa nad 3 m itd.).
 - Med celotno vgradnjo morata biti prisotni dve osebi, da je pri morebitni nesreči zagotovljena takojšnja pomoč.
- Vgradni sistemi K2 se stalno razvijajo. Pri tem se lahko spremenijo poteki vgradnje. Pred vgradnjo zato obvezno preverite trenutno stanje navodil za vgradnjo na naslovu k2-systems.com/en/technical-information Na zahtevo vam najnovejšo različico z veseljem tudi pošljemo.
- Upoštevajte navodila za vgradnjo proizvajalca modula.
- Izenačitev potenciala med posameznimi deli sistema je treba izvesti skladno z veljavnimi nacionalnimi predpisi.
- Med celotnim časom vgradnje mora biti na gradbišču na voljo najmanj en izvod navodil za vgradnjo.
- Pri neupoštevanju naših predpisov in navodil za vgradnjo ter neuporabi vseh delov sistema in pri vgradnji ali odstranjevanju delov, ki niso bili kupljeni pri nas, za tako nastale pomanjkljivosti ter škodo ne prevzamamo nikakršne odgovornosti. V tem obsegu je garancija izključena.
- Pri neupoštevanju naših splošnih varnostnih navodil in pri vgradnji ali odstranjevanju delov konkurenčnih ponudnikov podjetje K2 Systems GmbH zavrača vsakršno odgovornost.
- Če upoštevate vsa varnostna navodila in je sistem pravilno vgrajen, lahko garancijo za izdelke uveljavljate 12 let. Prosimo, da upoštevate naše garancijske pogoje, ki so na voljo na naslovu k2-systems.com/en/warranty-terms-and-conditions. Na zahtevo vam jih seveda z veseljem tudi pošljemo.
- Razstavljanje sistema poteka v obratnem vrstnem redu glede na vgradnjo.
- Deli K2 iz nerjavnega jekla so na voljo v različnih razredih protikorozijske zaščite. Za vsak primer morate preveriti, kakšne korozijske obremenitve lahko pričakujete za vsakokratno konstrukcijo ali del.

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 $\leq 3^\circ$ without a fixed connection.
- Fixed connection $> 3^\circ$ to $\leq 10^\circ$
 - Up to $\leq 5^\circ$ combinations with ballast possible
 - $> 5^\circ$ to $\leq 10^\circ$ 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

- The exact mounting angle deviates slightly from 10° depending on the module width. This angle decreases with higher module widths.
- 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.

- An array must consist of at least two elevations must for this mounting system to be properly utilized.
- Ensure a thermal separation (distance between module blocks) in the direction of the base rail and module rows must be maintained:
 - Base Rail: 12.3 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

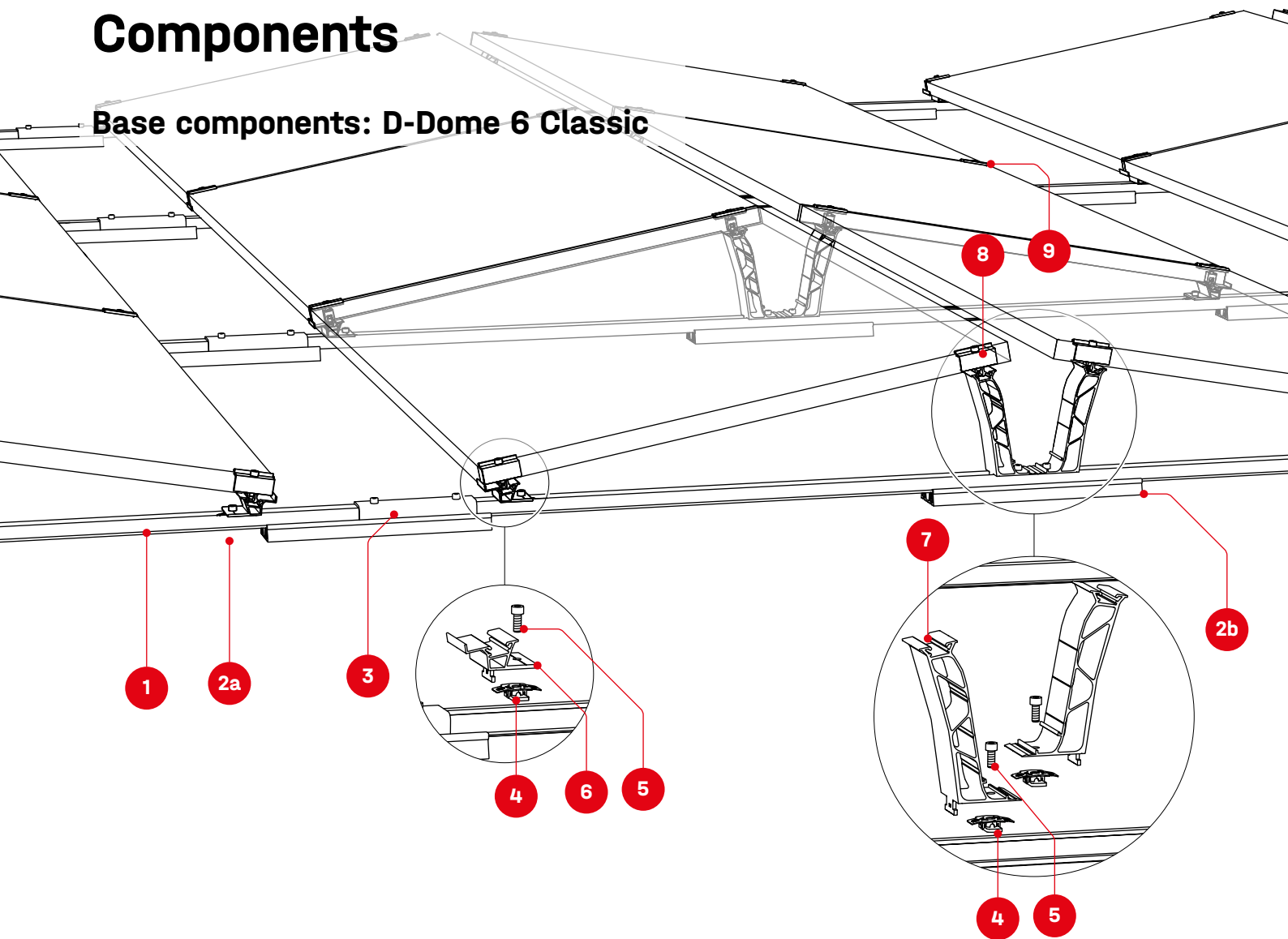
- Tightening torque of 14 Nm for all module clamps.
- Adhere to module manufacturer recommendations for clamping area and module installation (see module manufacturer instructions). Check whether manufacturer approval is available for clamping on the short module side. See k2-systems.com/en/approved-modules-dome-6

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).

Components

Base components: D-Dome 6 Classic



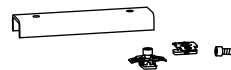
1 Article number system-specific
BasicRail 22



2a 2003126
2b **Mat S**



3 1006039
FlatConnector Set



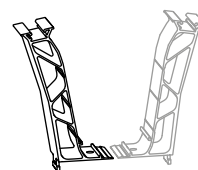
4 1001643 + 2001729
5 **MK2 Slot nut with clip +
Allen bolt M8×20**

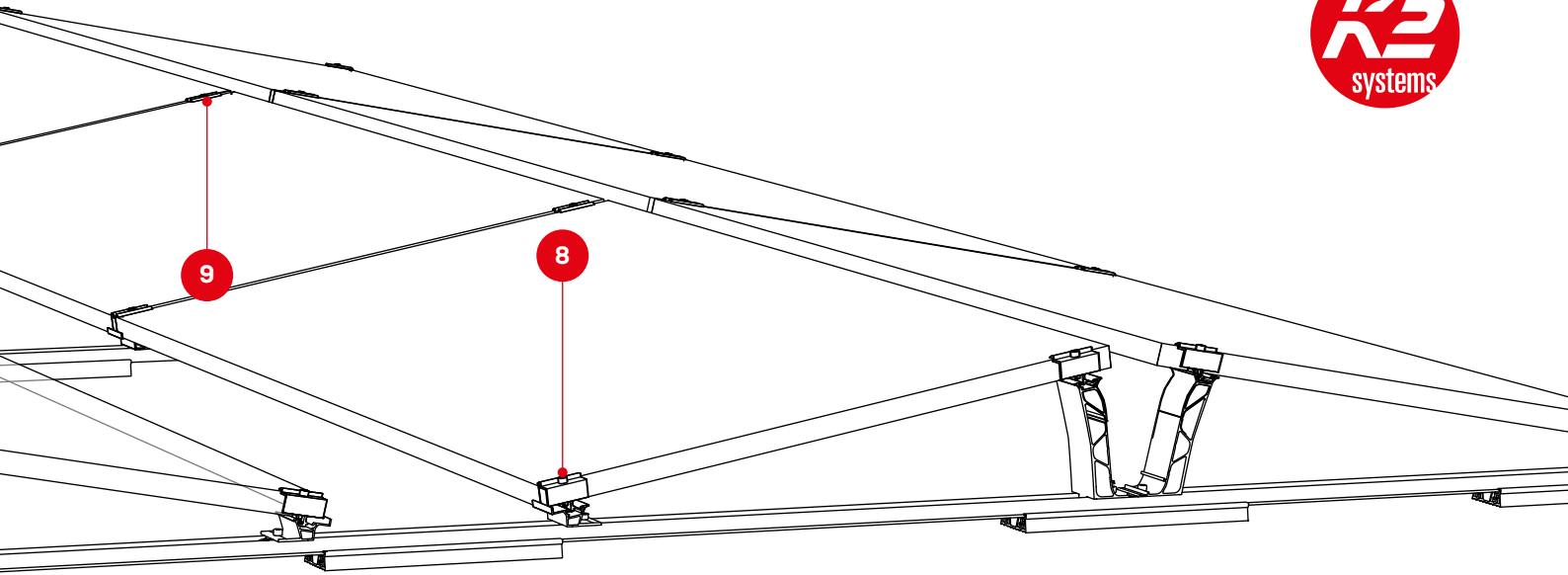


6 2003243
Dome 6.10 SD



7 2004125
Dome 6.10 Peak

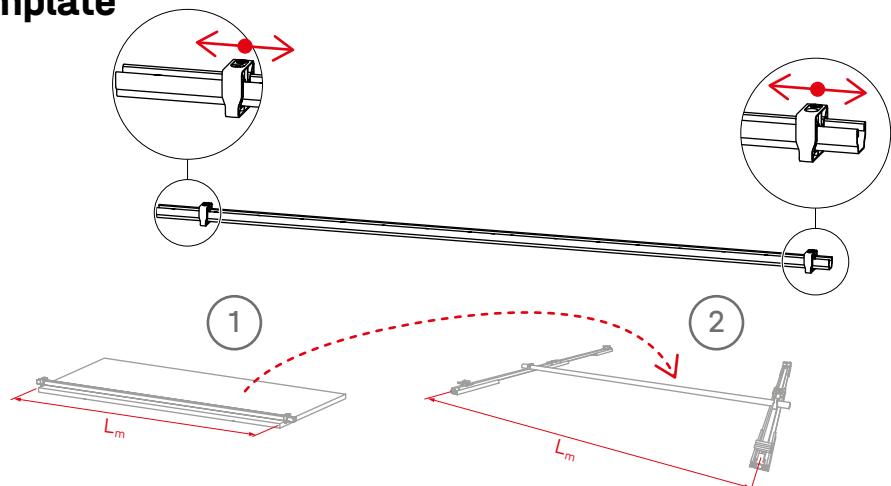




Dome 6 distance template

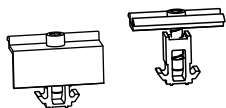
2004129

Dome Speed Spacer Large

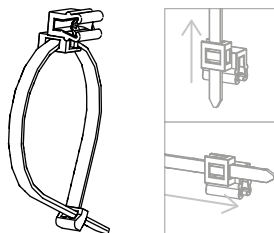


Optional

8 2002559 / 2002558
9 **DomeClamp EC/MC**



2002870
Cable-Manager

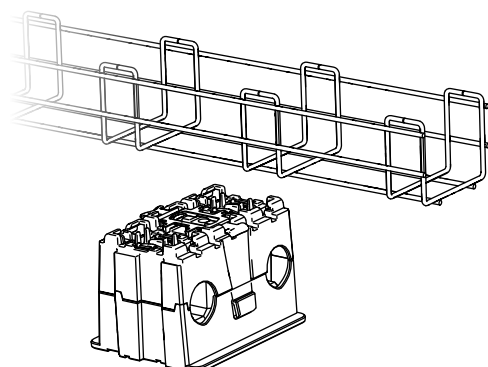


2003542
**TerraGrif K2MI
Duo 18**



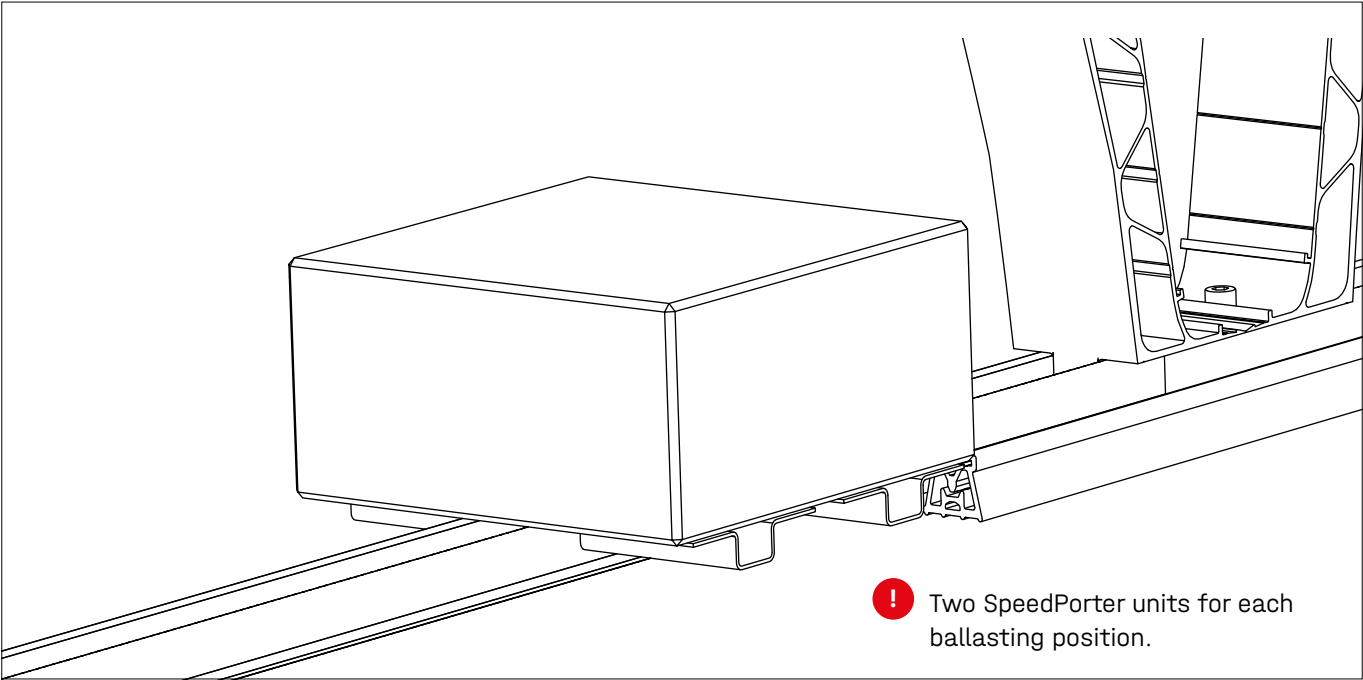
2004141
Mat S Tool

2004054 + 2003137
**Performa Mesh Tray and
PVX Multimount**

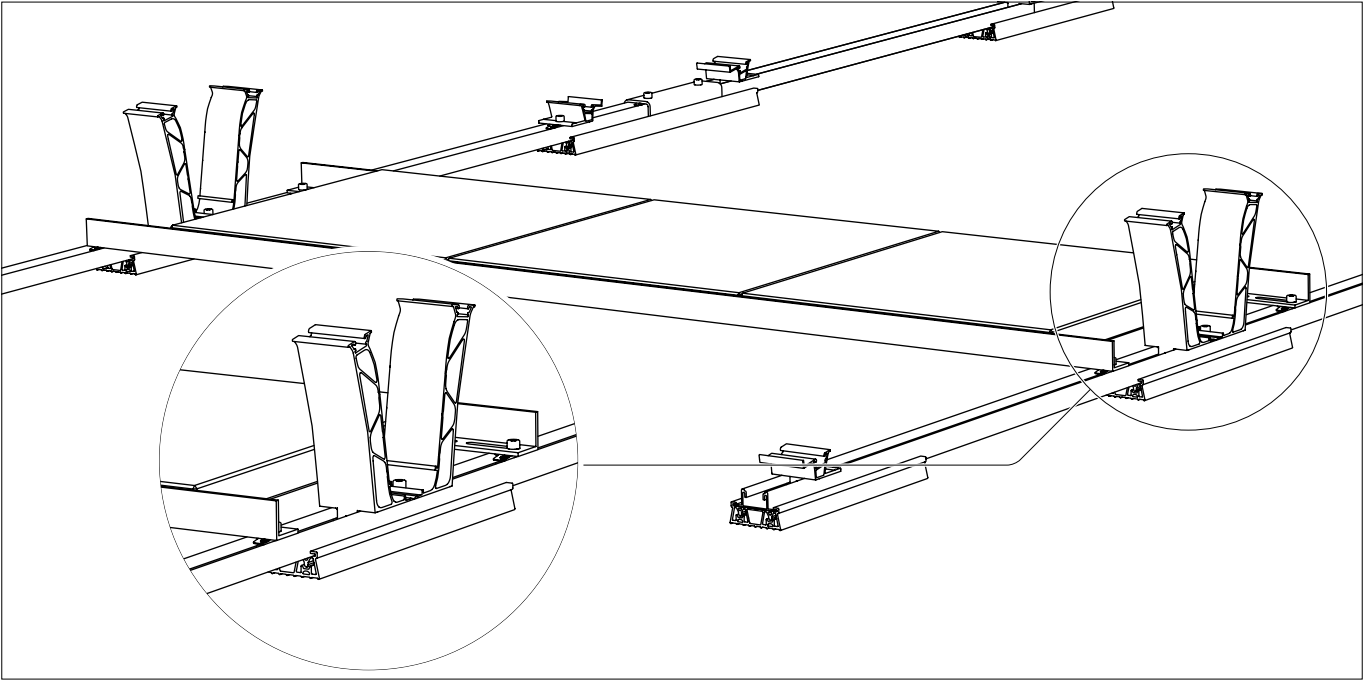
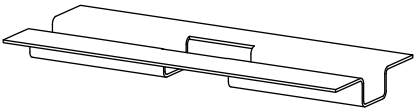


Components

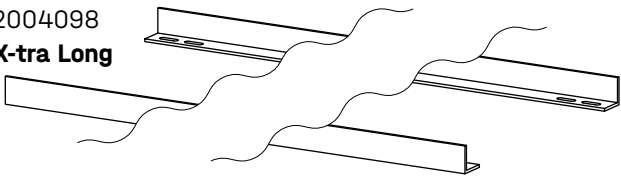
Ballast



2002300
SpeedPorter



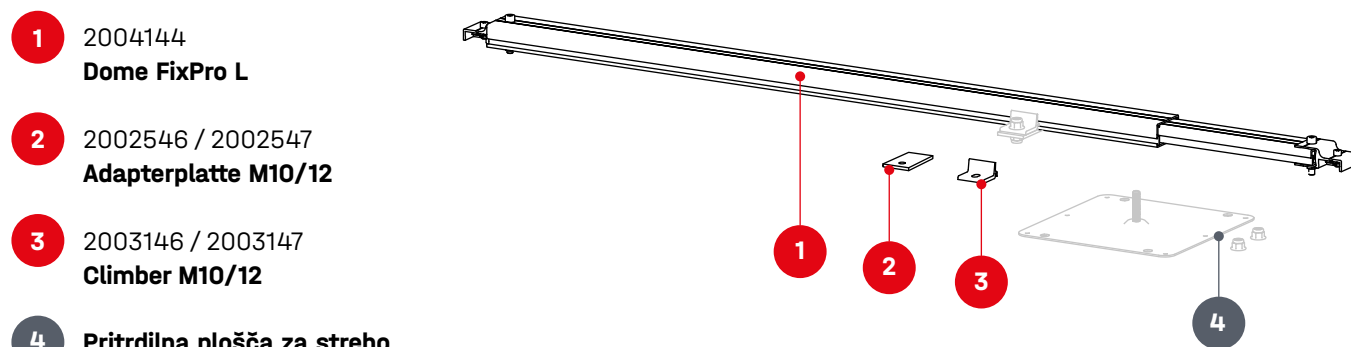
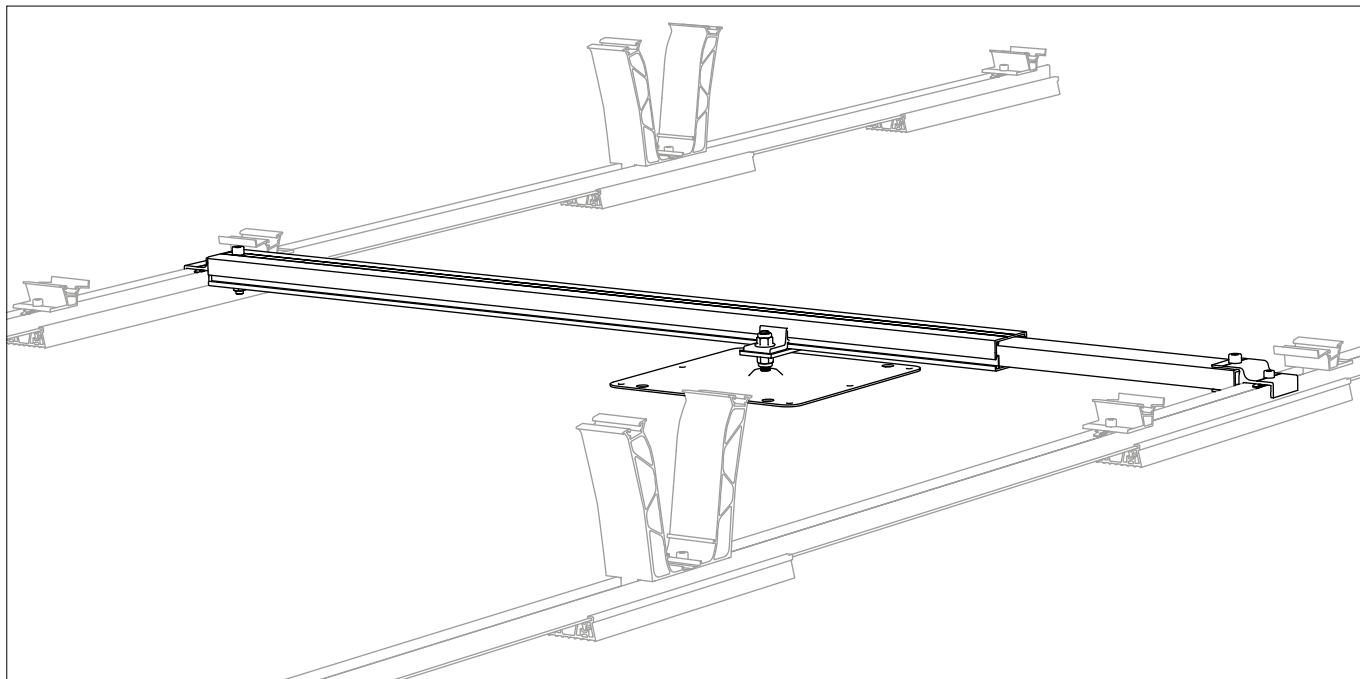
2003150 / 2003151 / 2004098
Porter Short / Long / X-tra Long



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



Fixed connection to the roof



1 2004144
Dome FixPro L

2 2002546 / 2002547
Adapterplatte M10/12

3 2003146 / 2003147
Climber M10/12

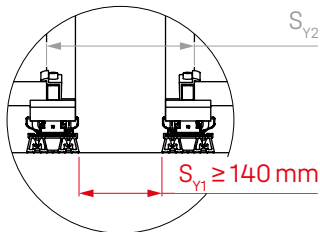
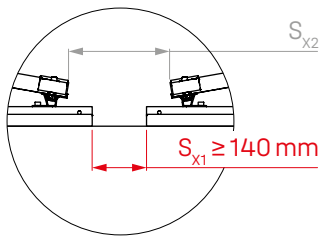
4 **Pritrdilna plošča za streho**
Ni vključena v portfelj izdelkov K2.
Dodatne pritrdilne elemente (npr. vijake in matice) za pritrditev na pritrdilne elemente morate zagotoviti na kraju samem.

Assembly

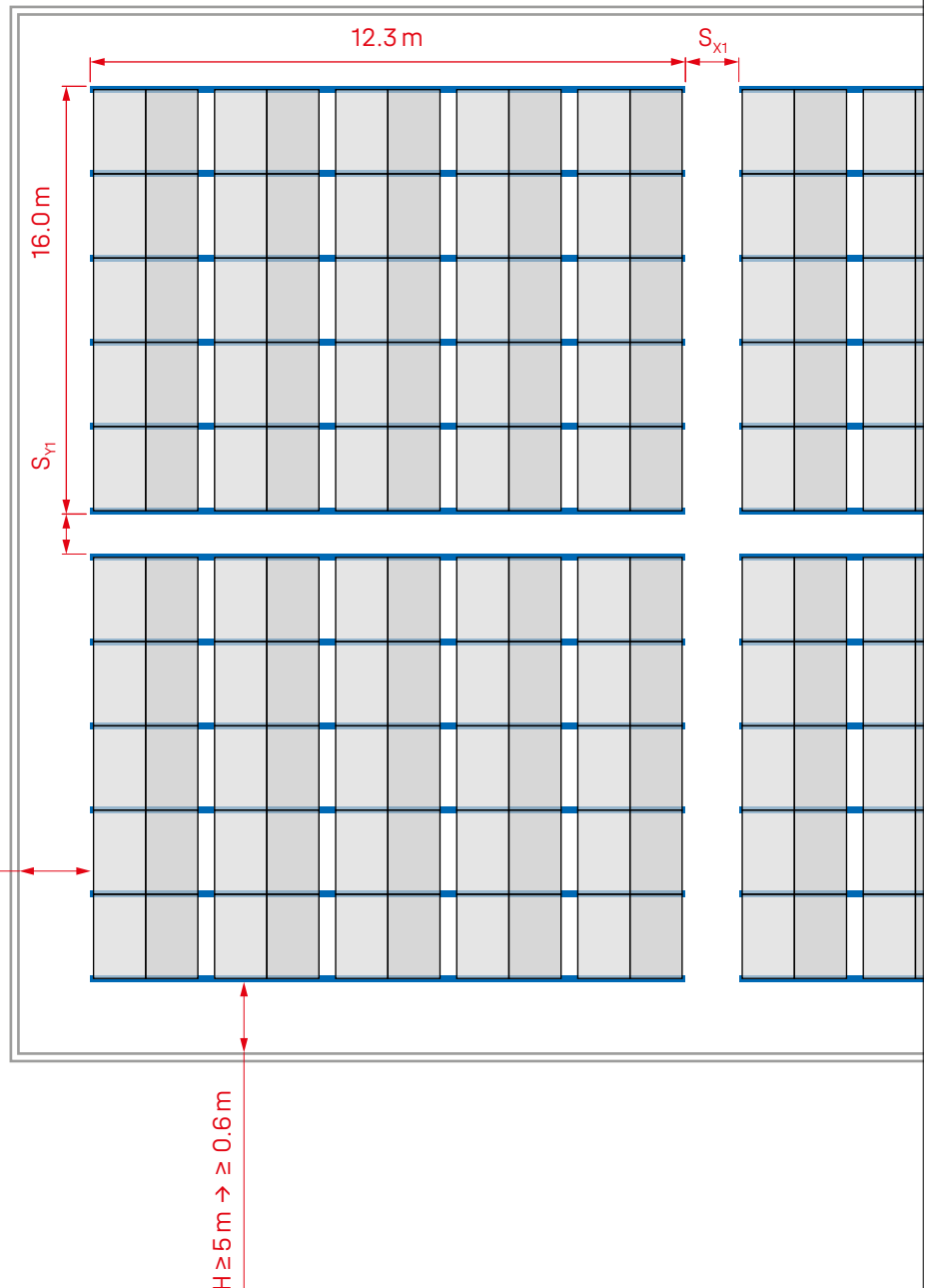
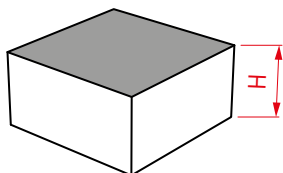
Installation of module field and thermal separations



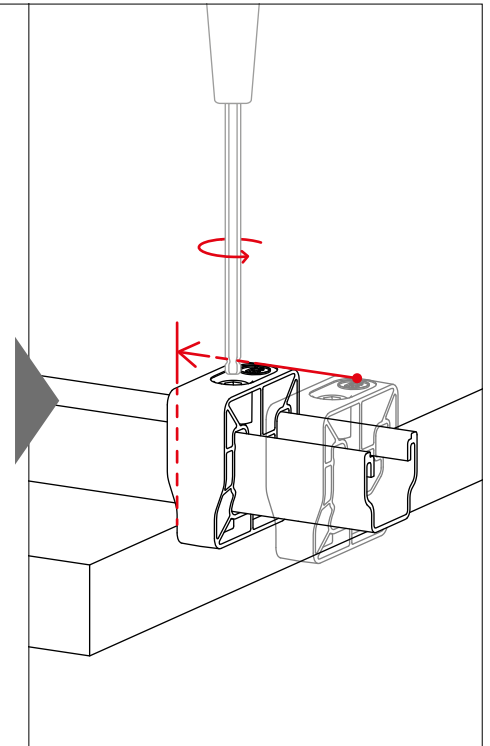
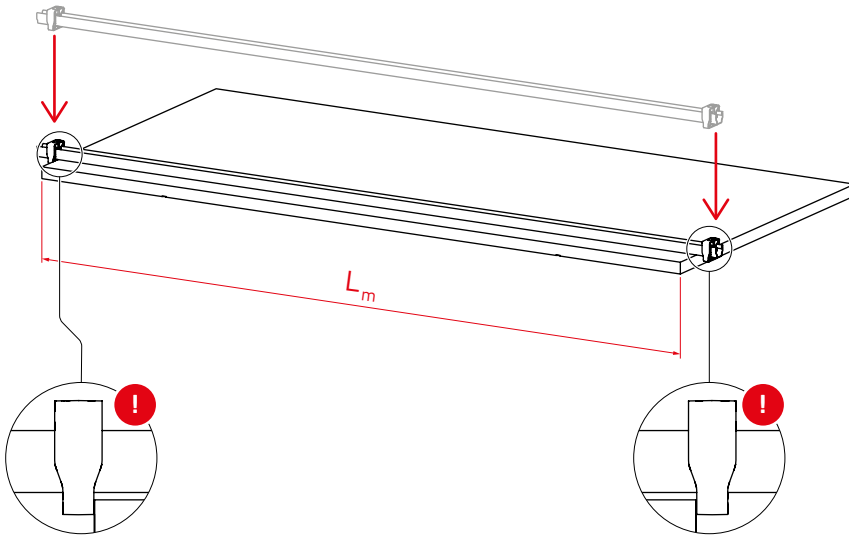
The minimum assembly values (S_{x1}/S_{y1}) for the thermal separations of module blocks must not be undercut. In K2 Base, you set the distances between the module edges (S_{x2}/S_{y2}) for planning. The K2 Base mounting plan outputs the automatically calculated mounting values depending on S_{x2}/S_{y2} .



$H \geq 5 \text{ m} \rightarrow \geq 0.6 \text{ m}$

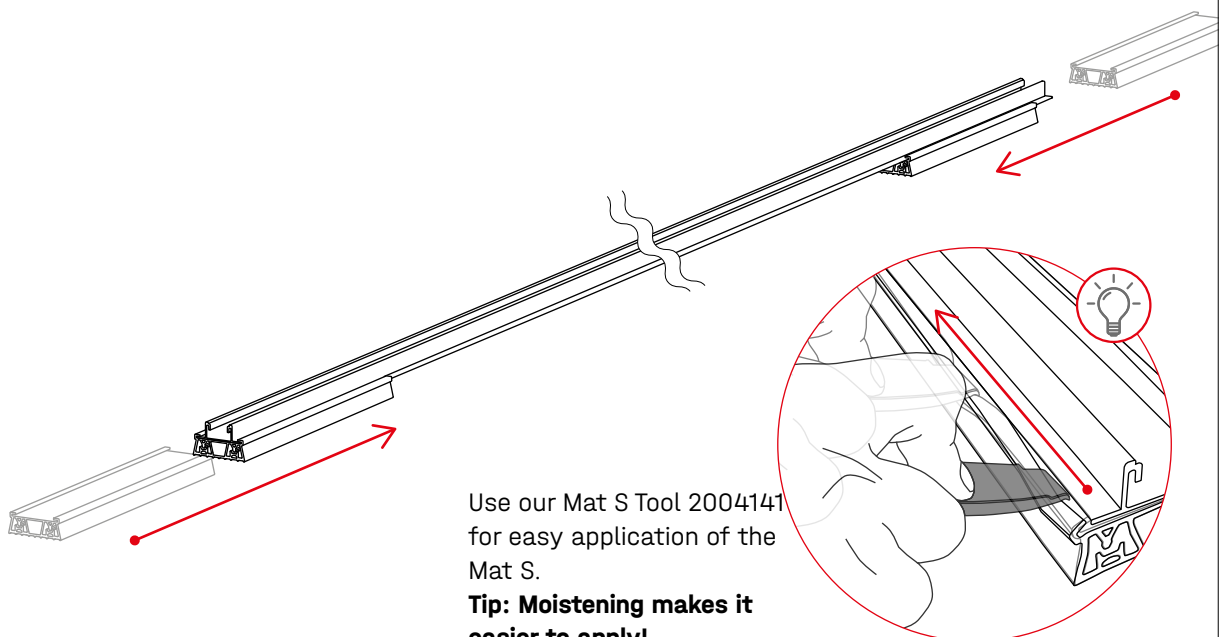


! The module length L_m is adjusted with the narrow ends of the Dome Speed Spacer measuring clamps.



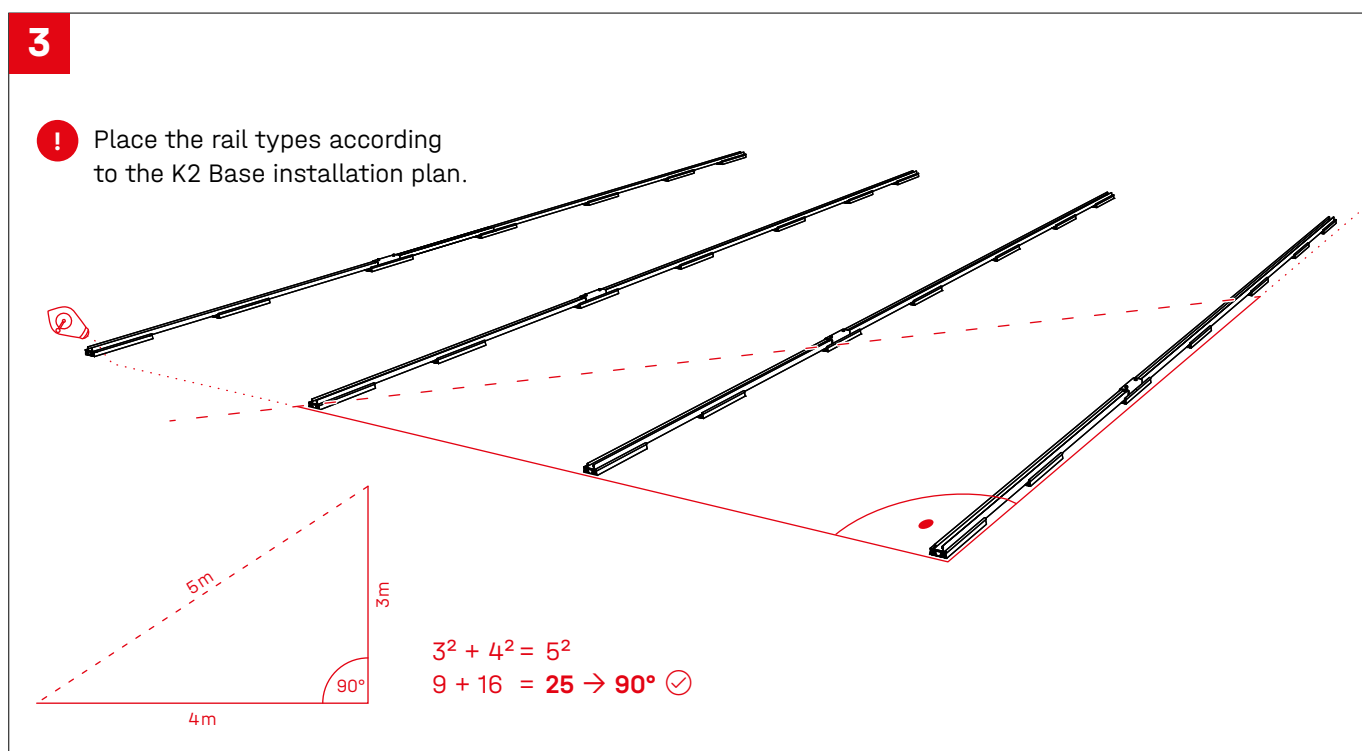
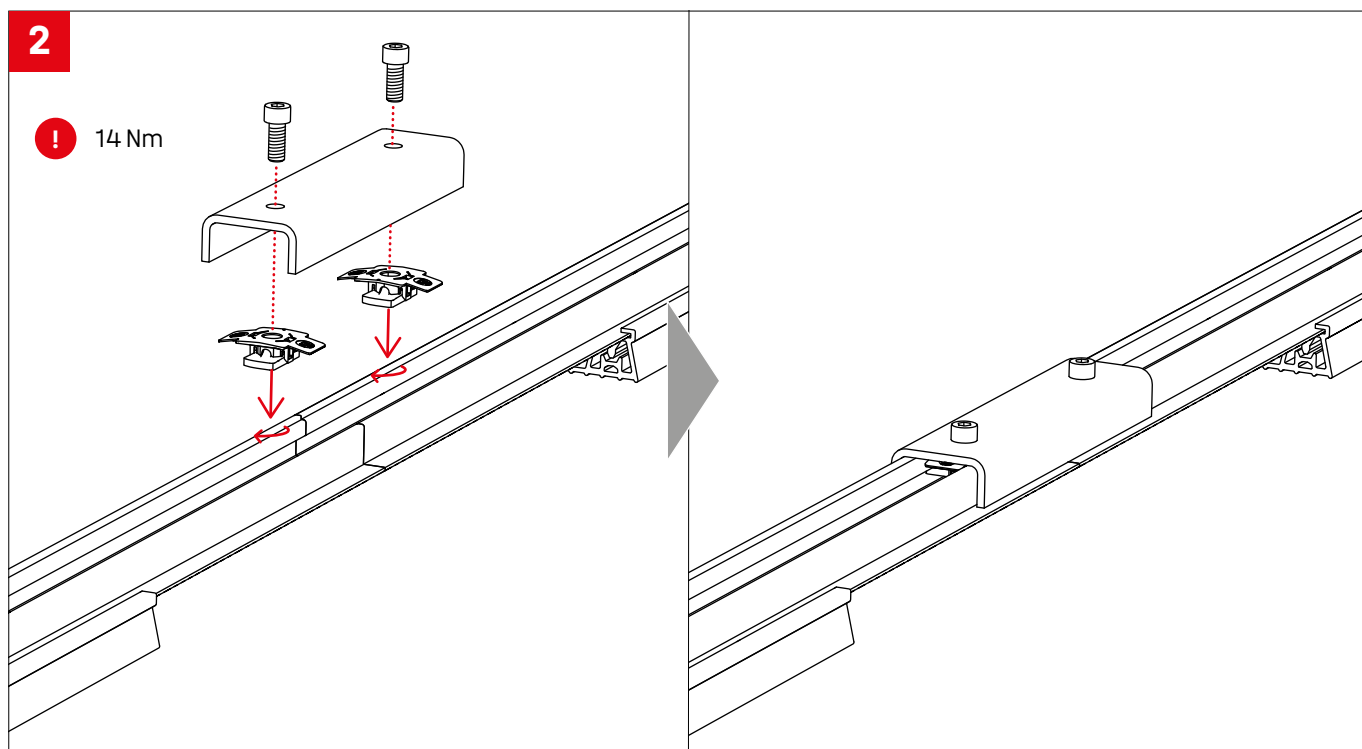
Module block

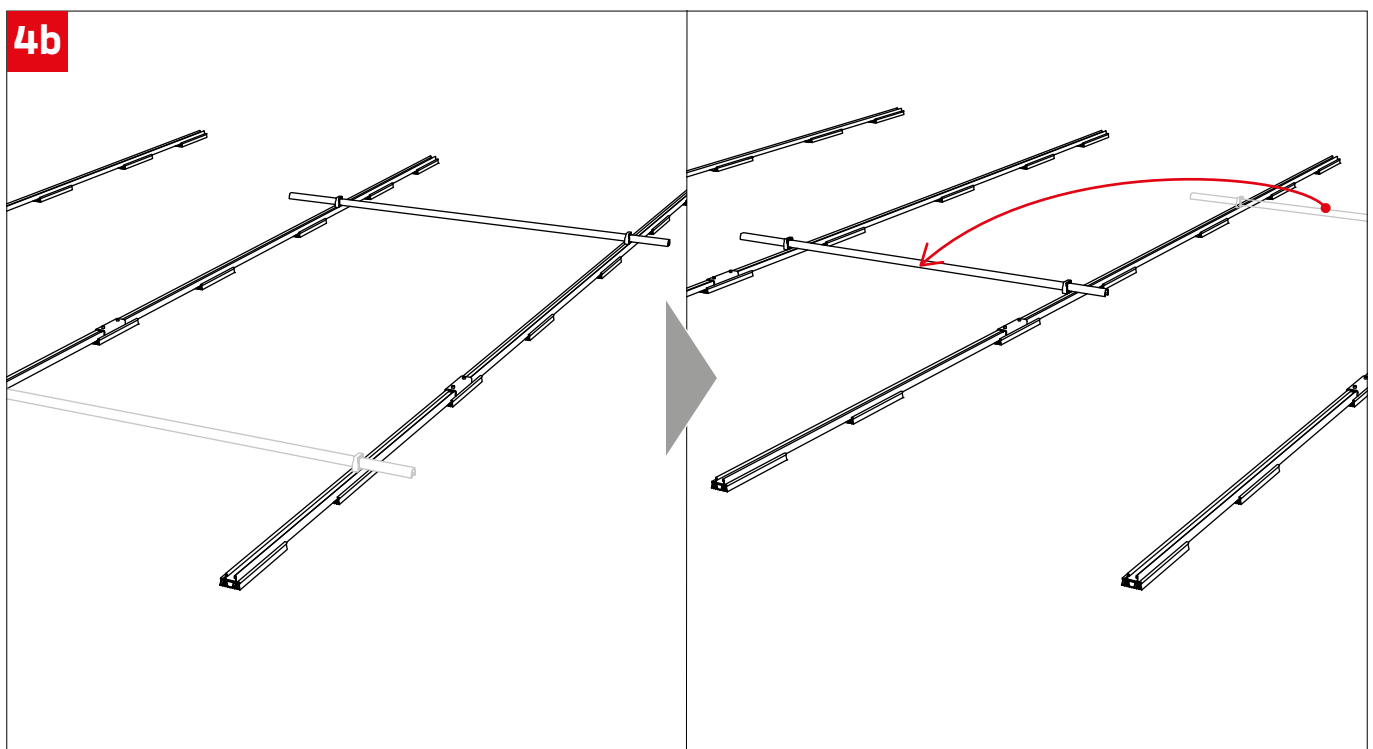
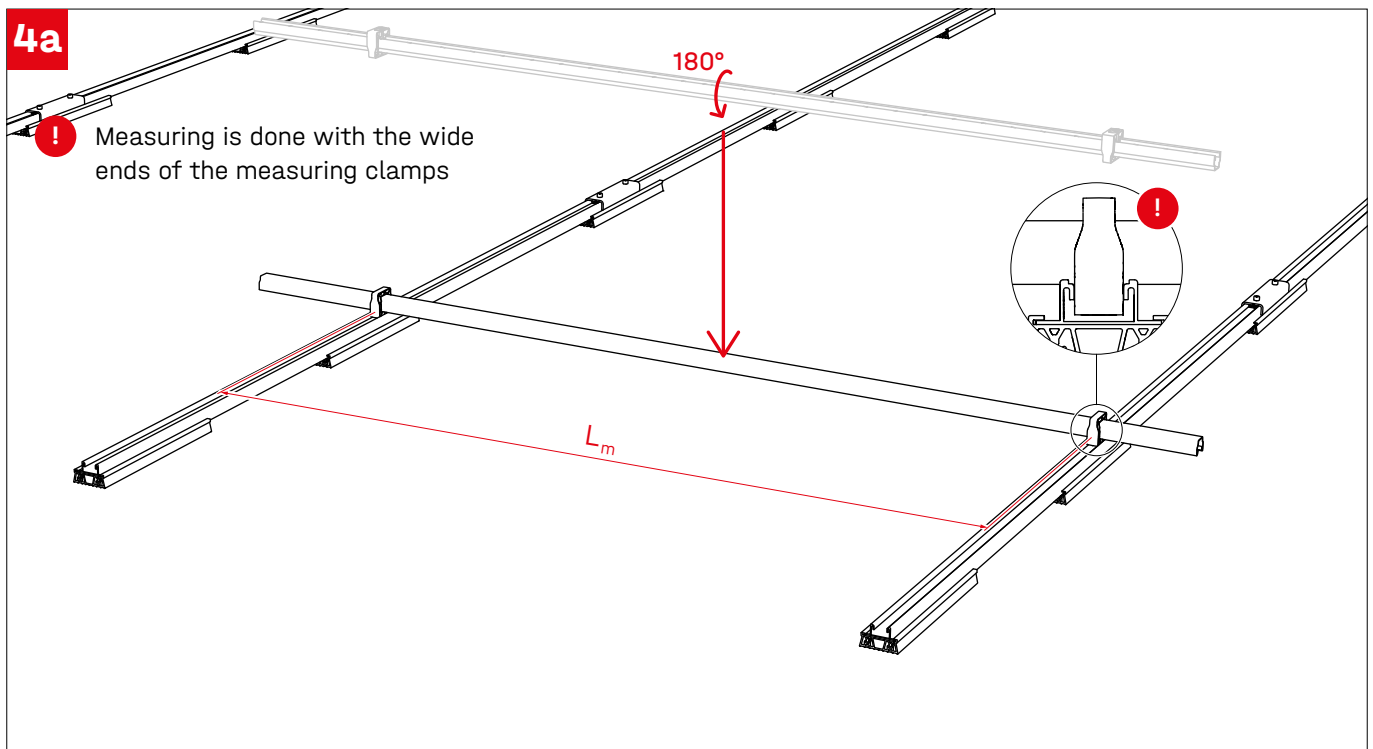
1



Use our Mat S Tool 2004141 for easy application of the Mat S.

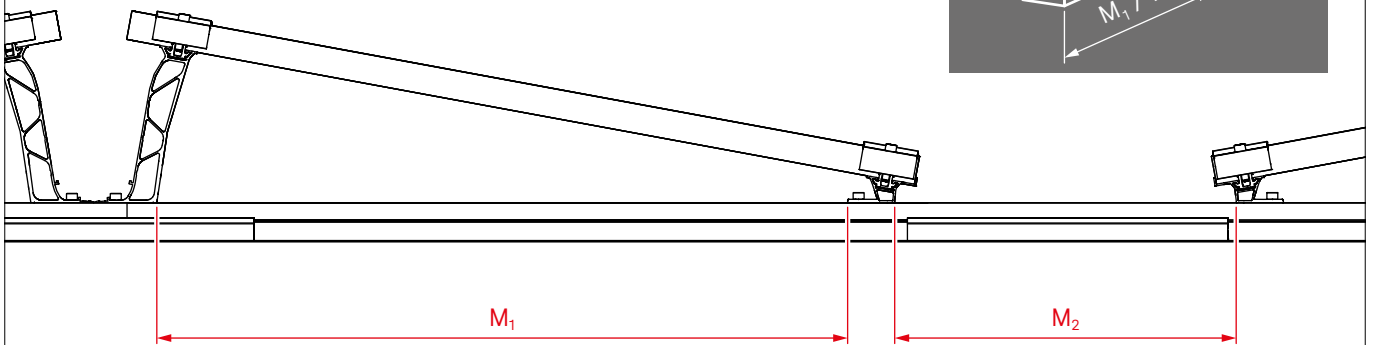
Tip: Moistening makes it easier to apply!



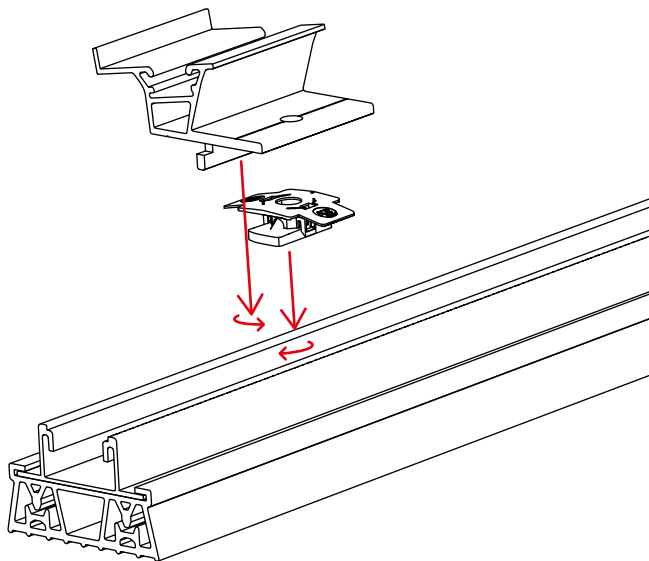


5a

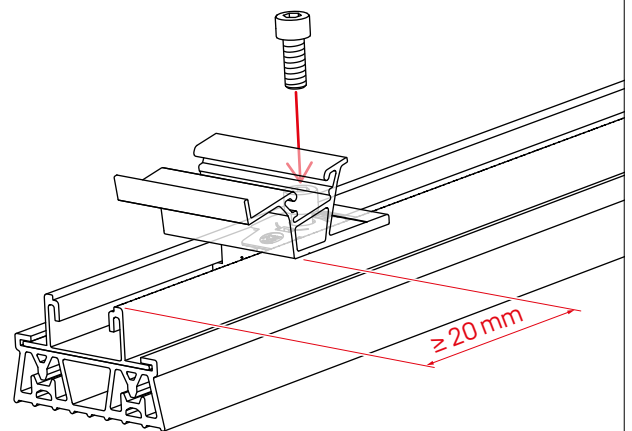
! K2 Base automatically calculates the pre-assembly dimensions M_1 / M_2 and outputs them in the assembly plan. These must be adhered to during assembly.



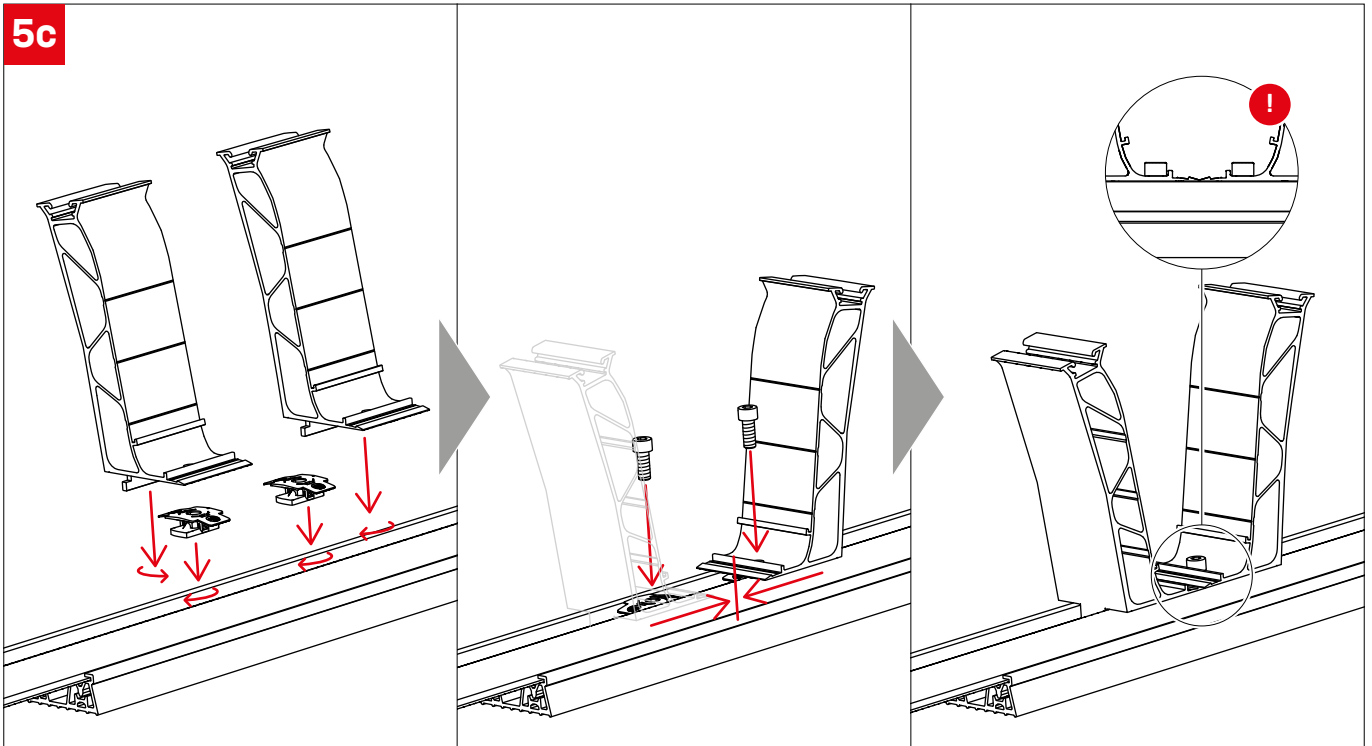
5b



! 14 Nm

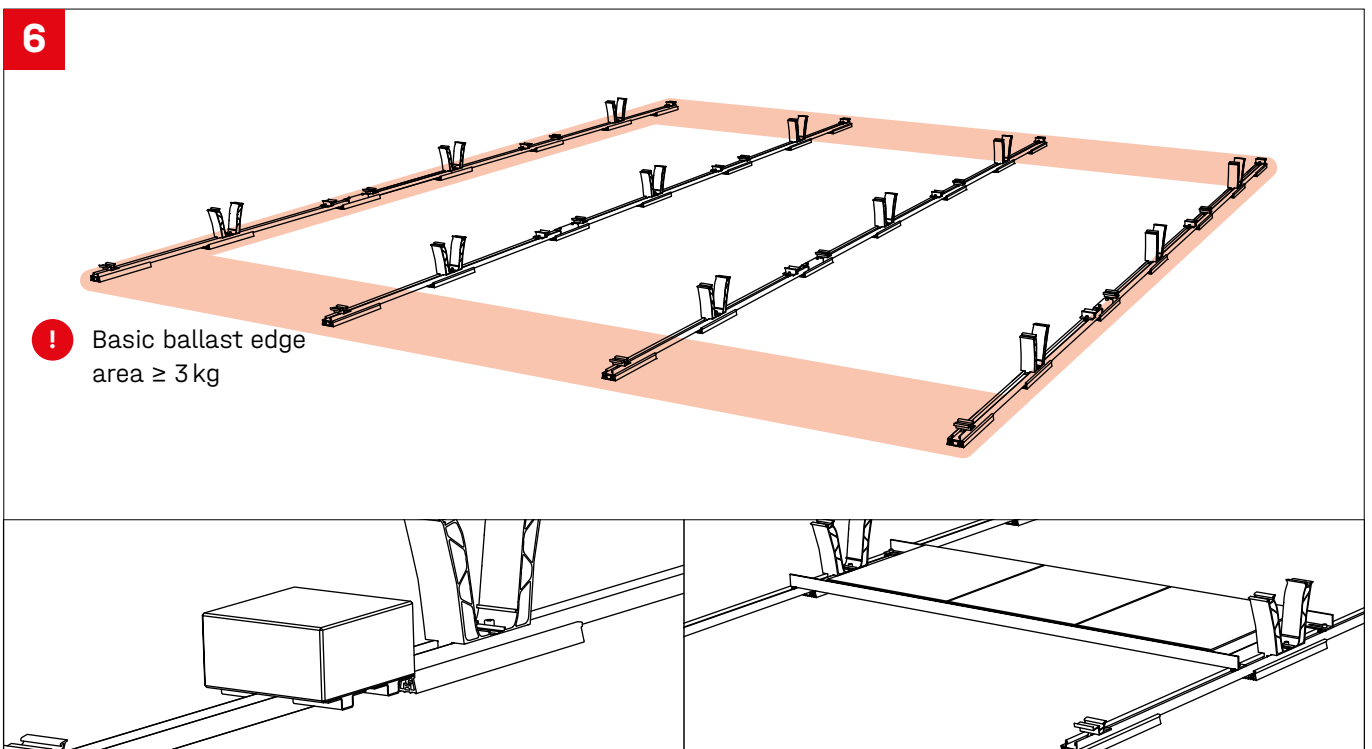


5c

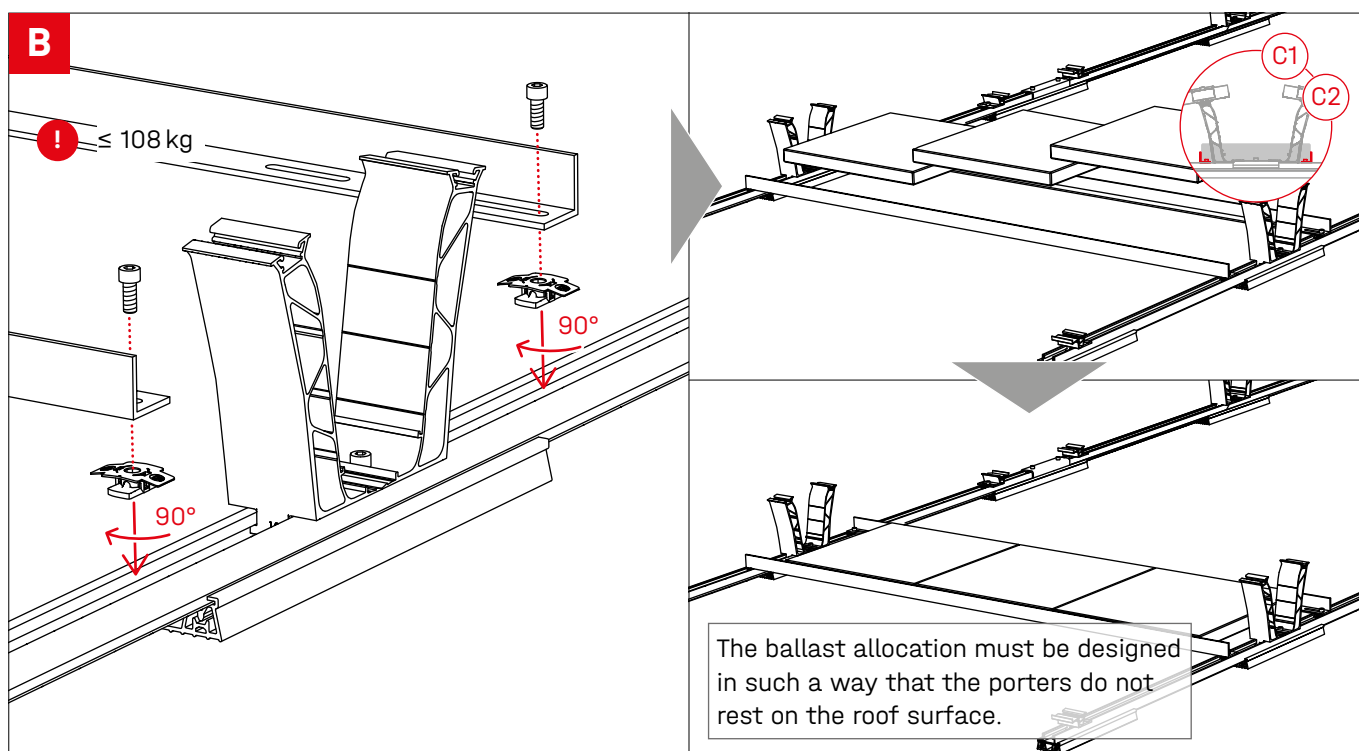
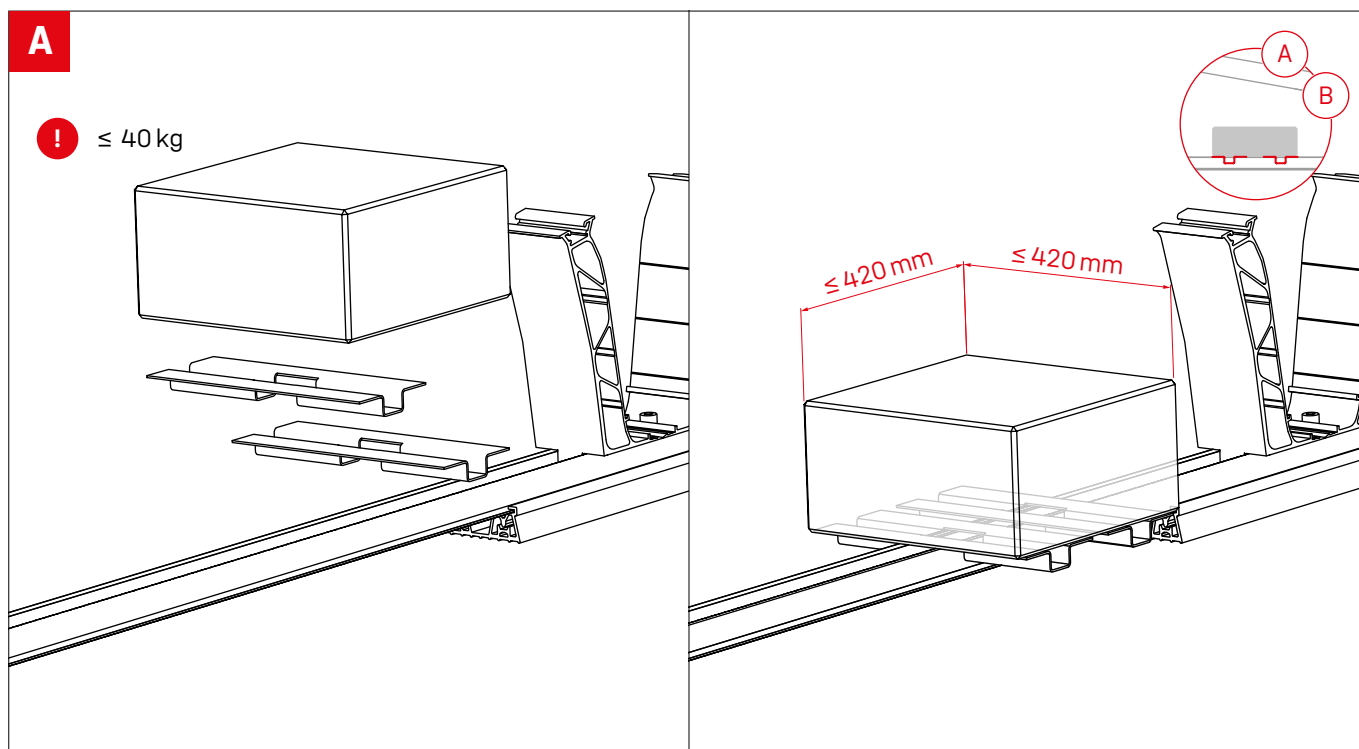


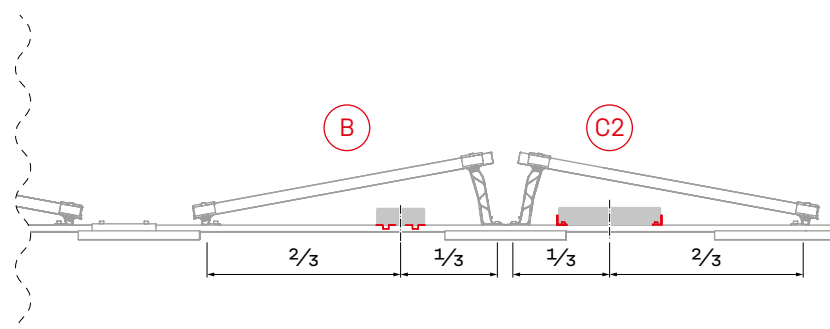
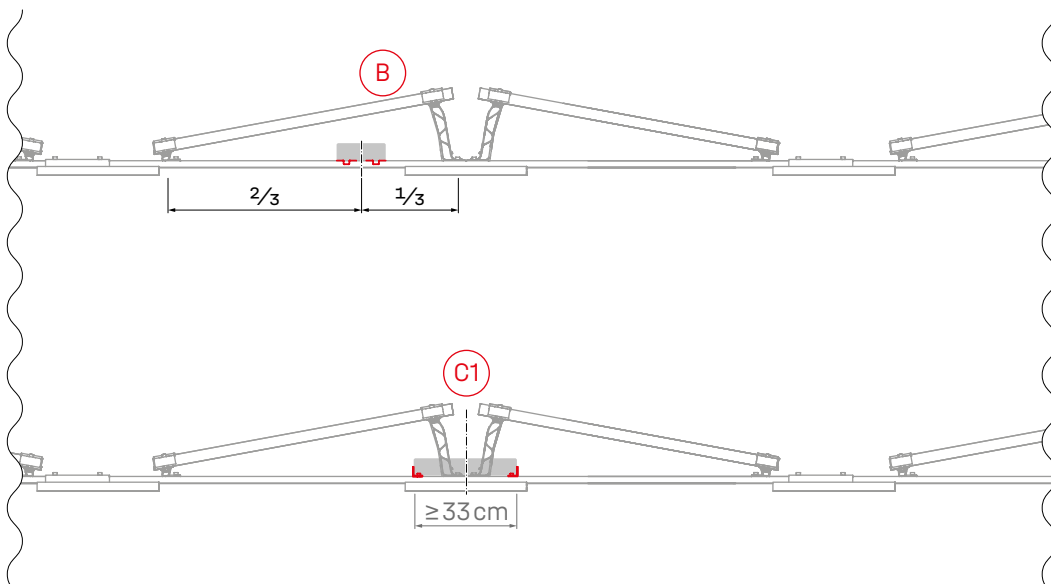
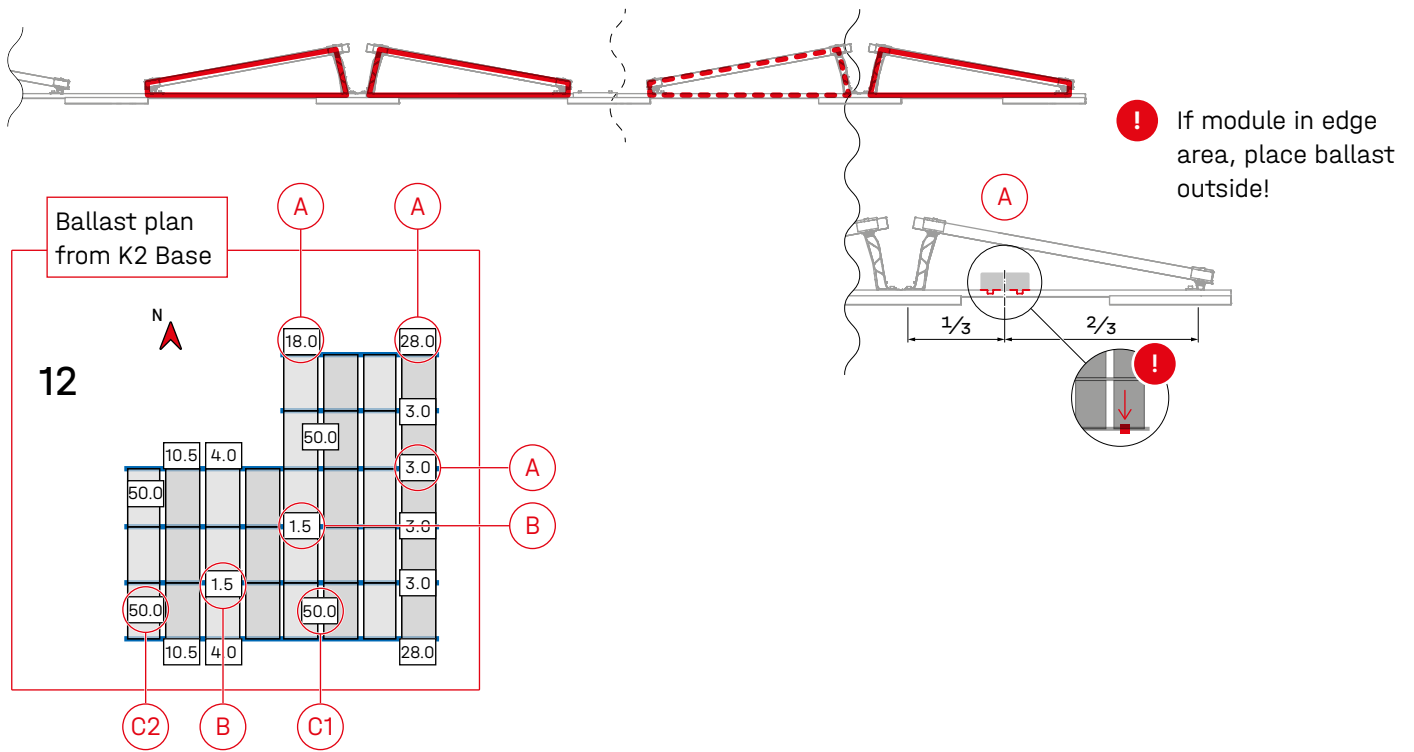
6

! Basic ballast edge
area $\geq 3 \text{ kg}$

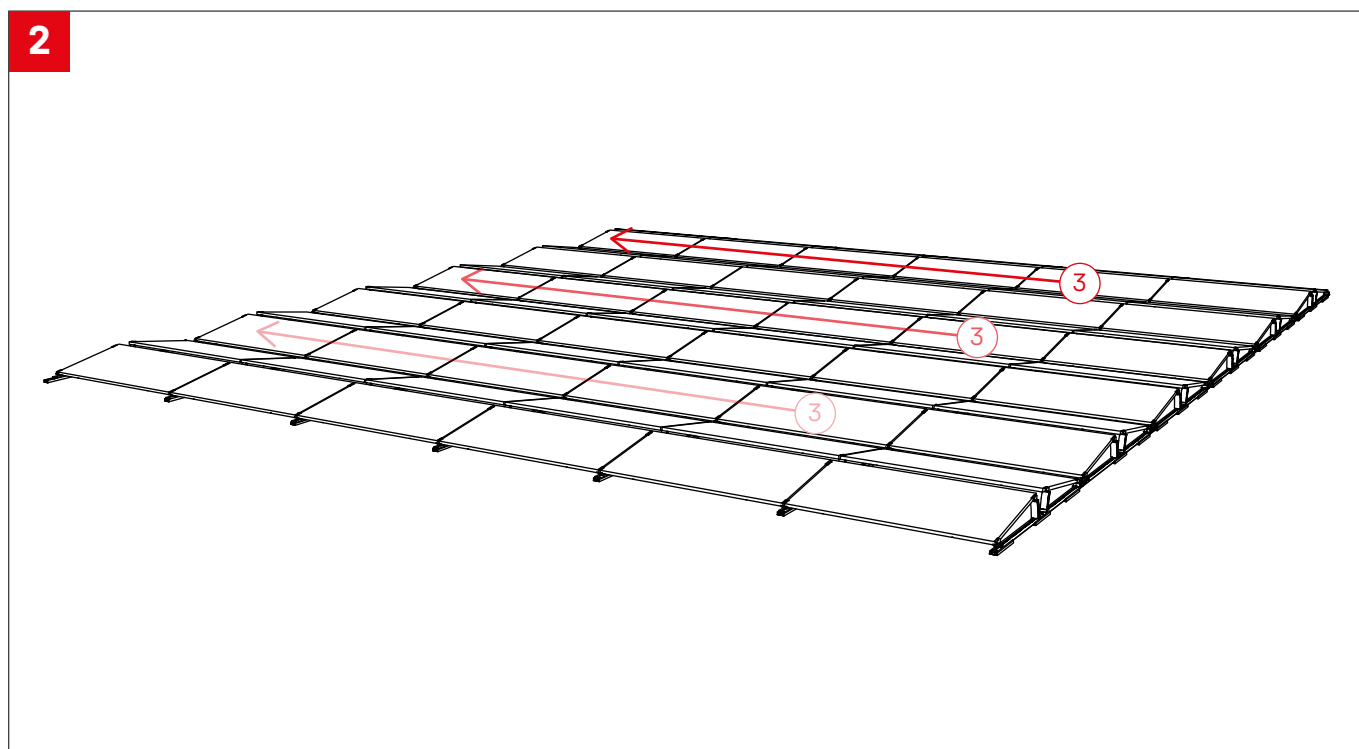
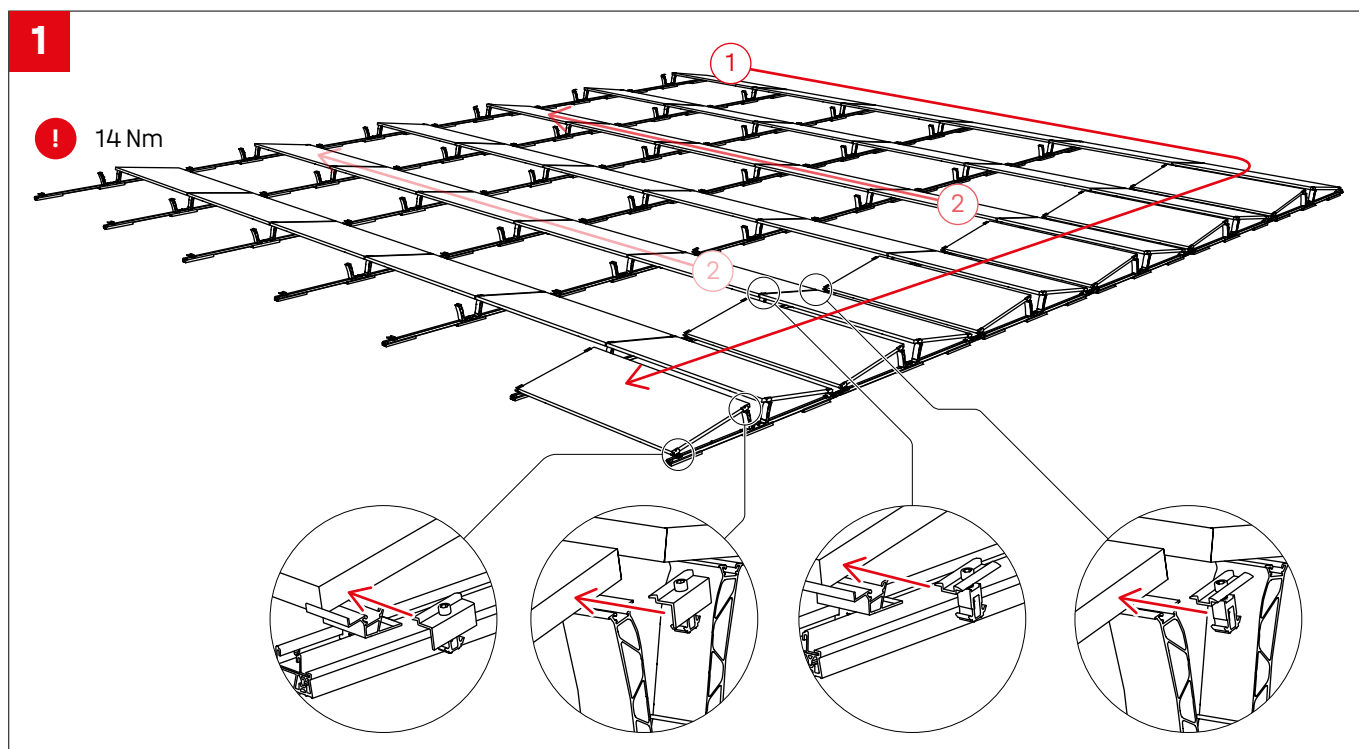


Ballasting options and specifications



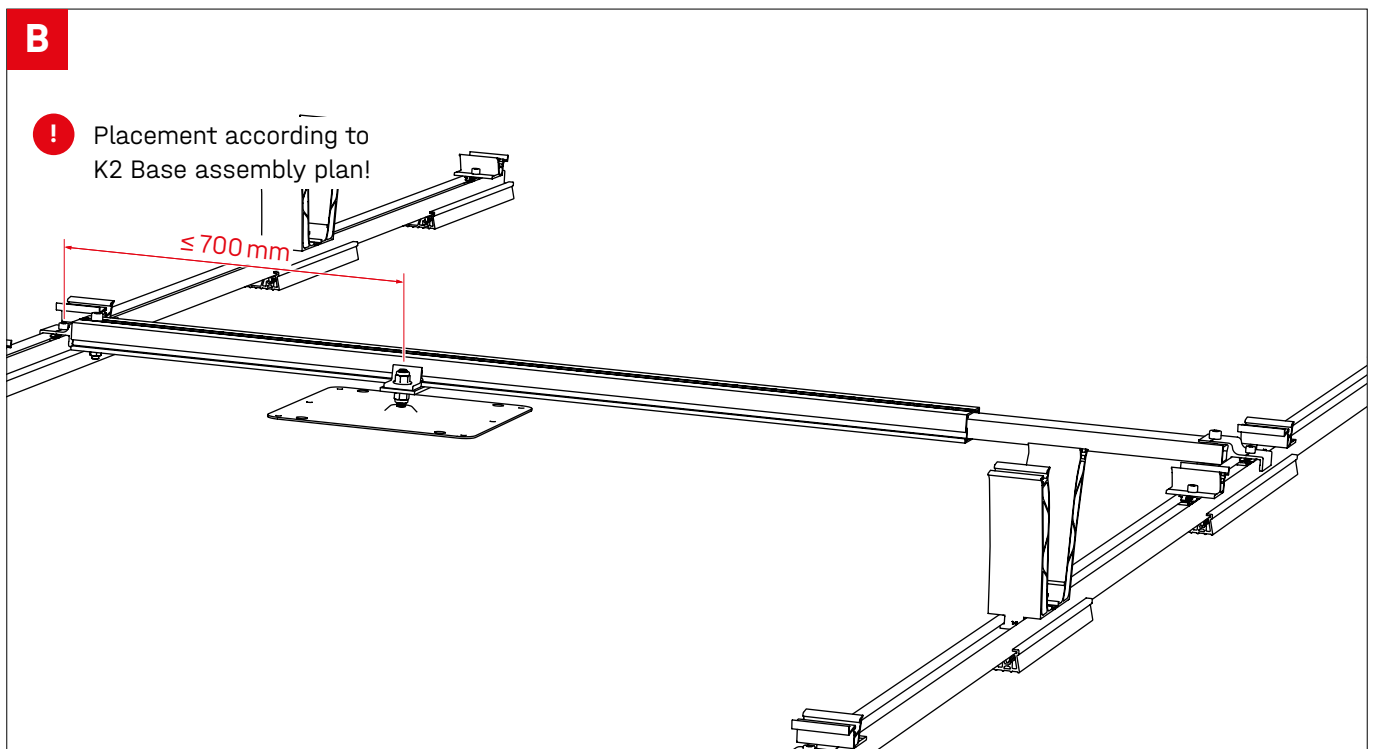
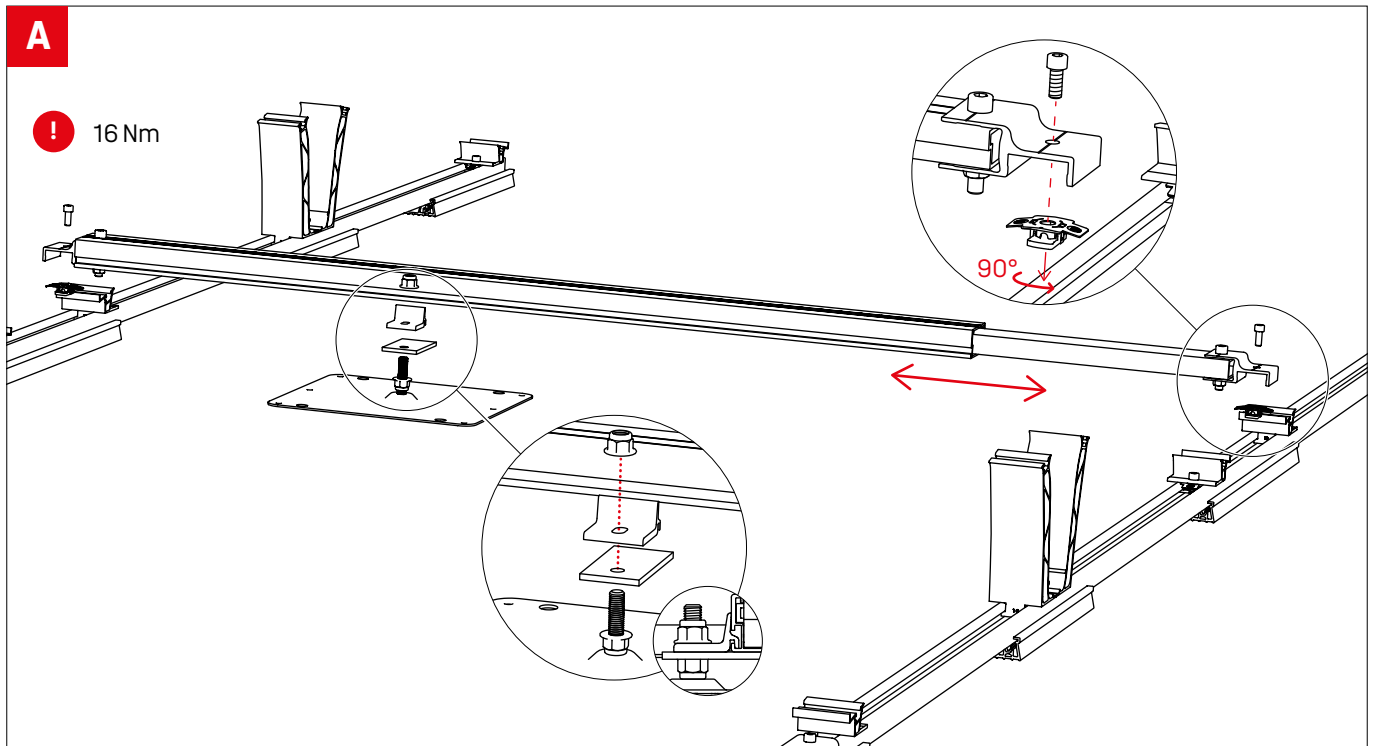


Module assembly

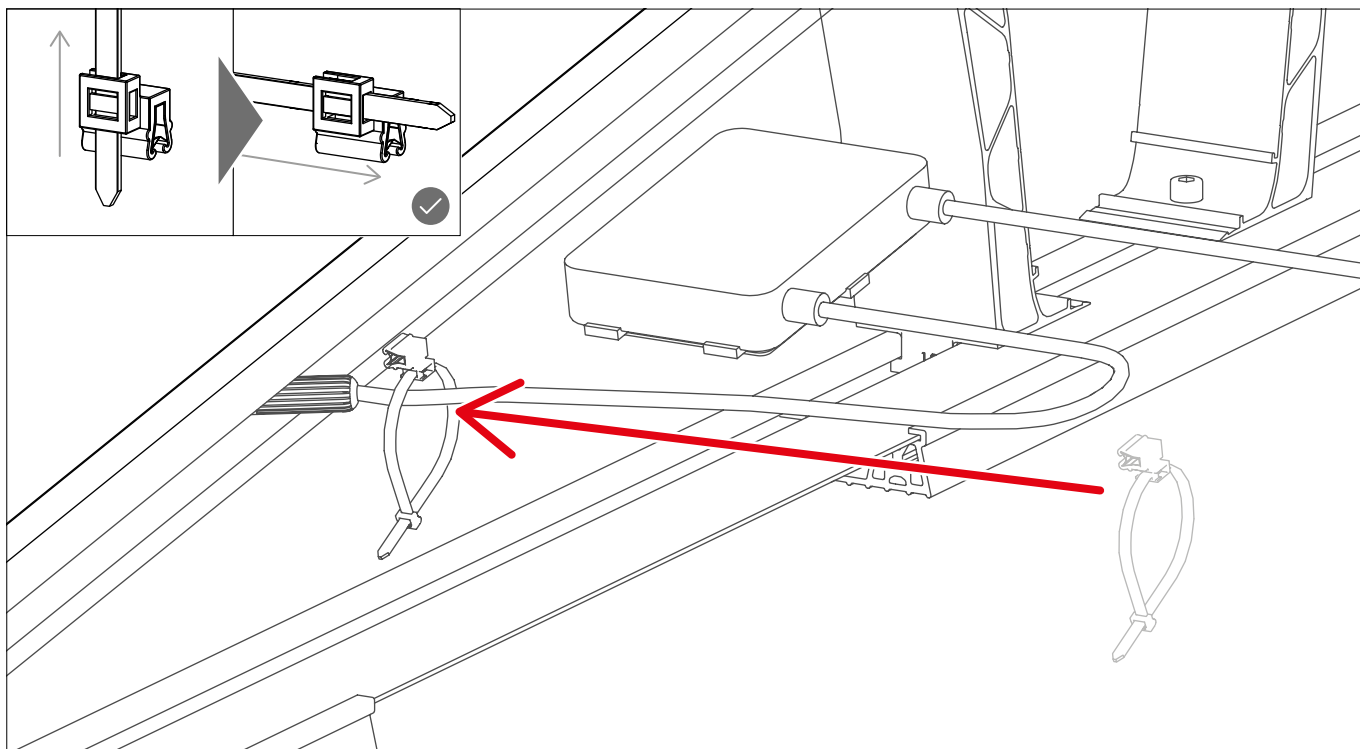


Optional assembly steps

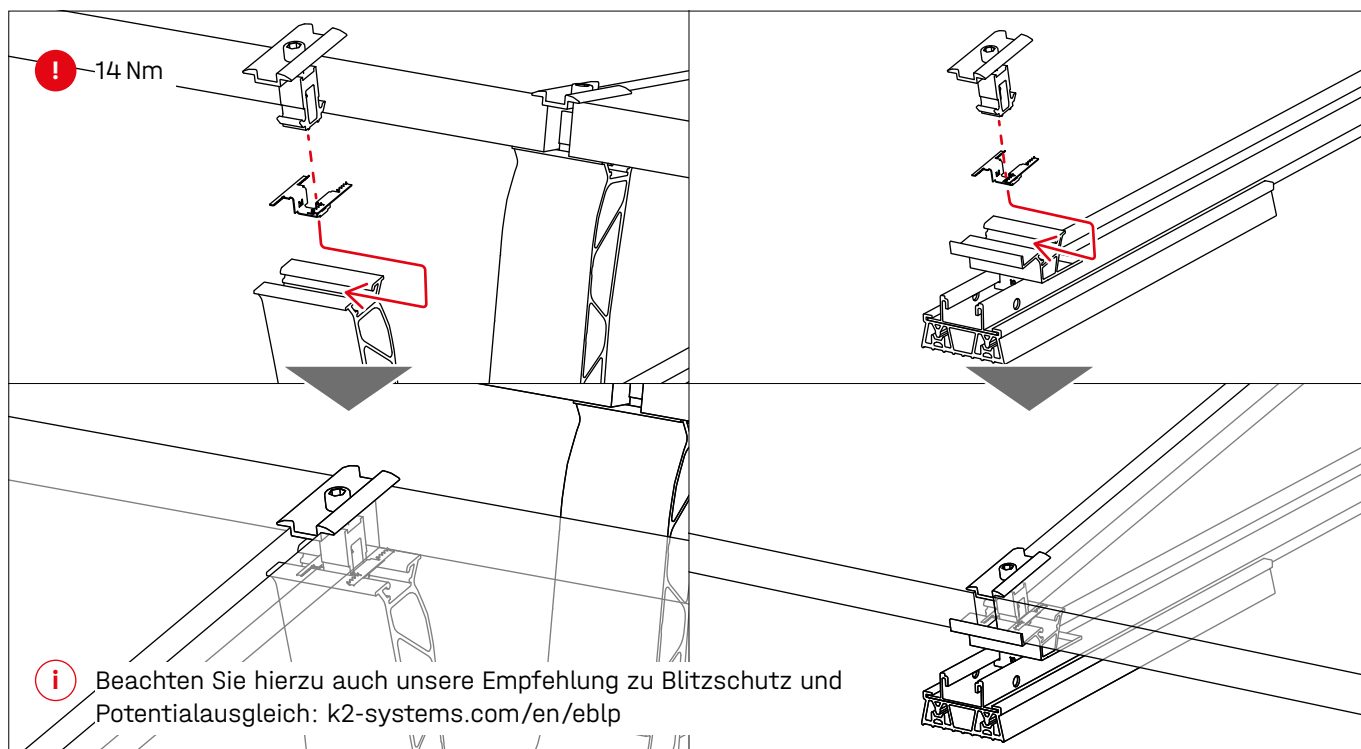
Fixed connection with Dome FixPro using Solmont mounting base



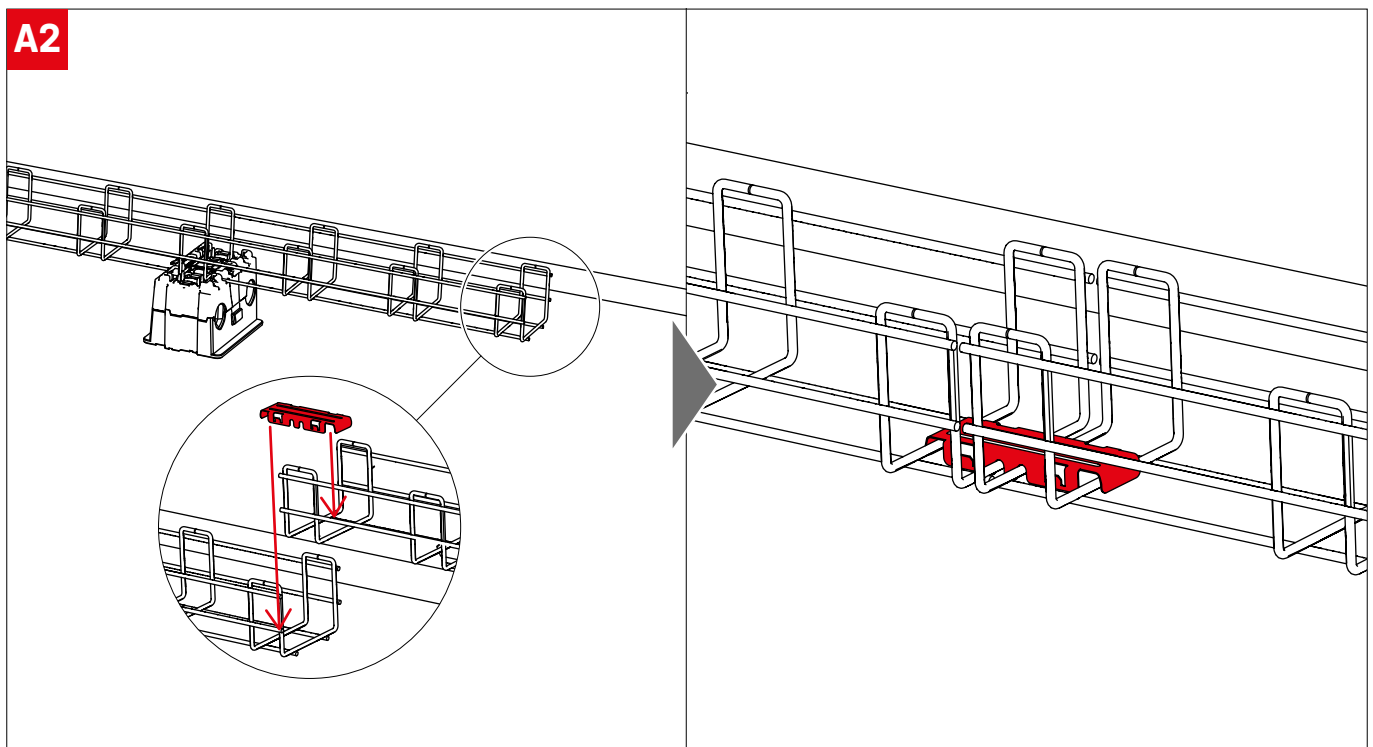
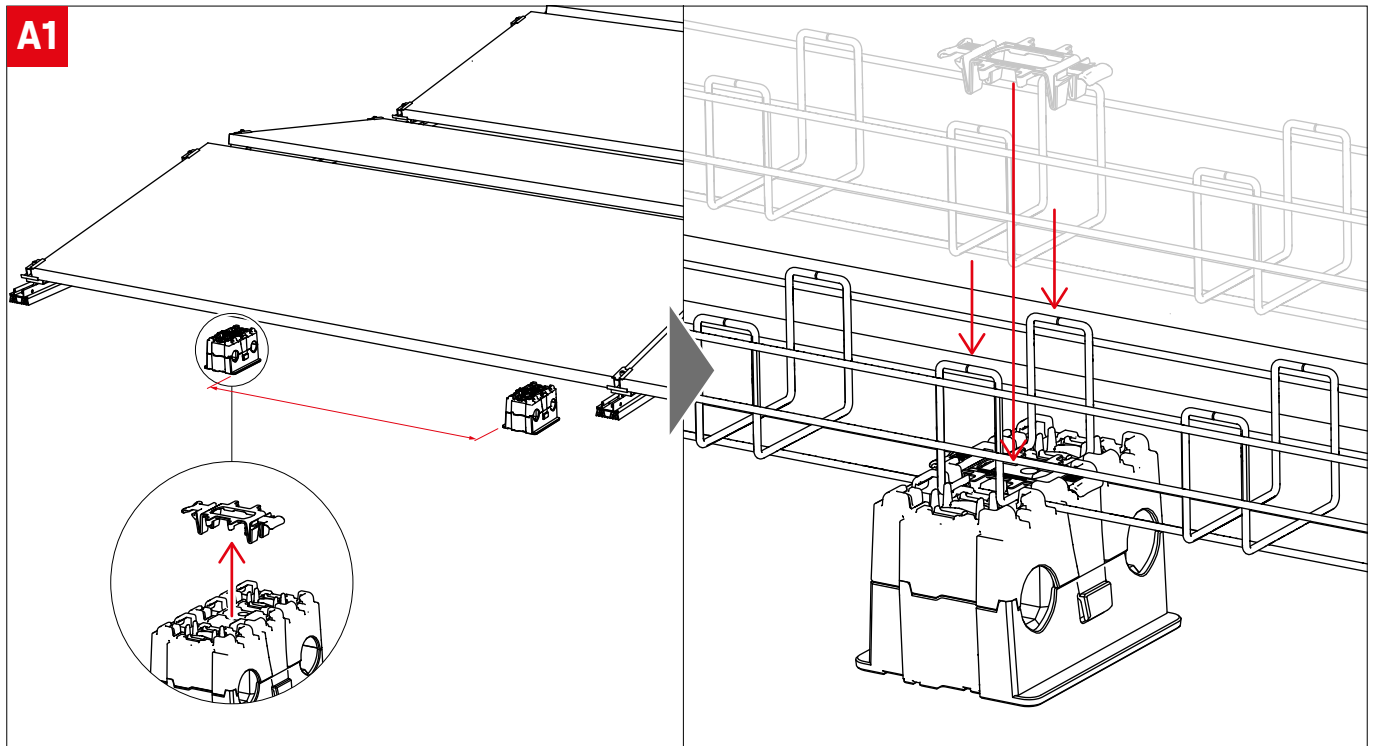
Cable management with Cable-Manager

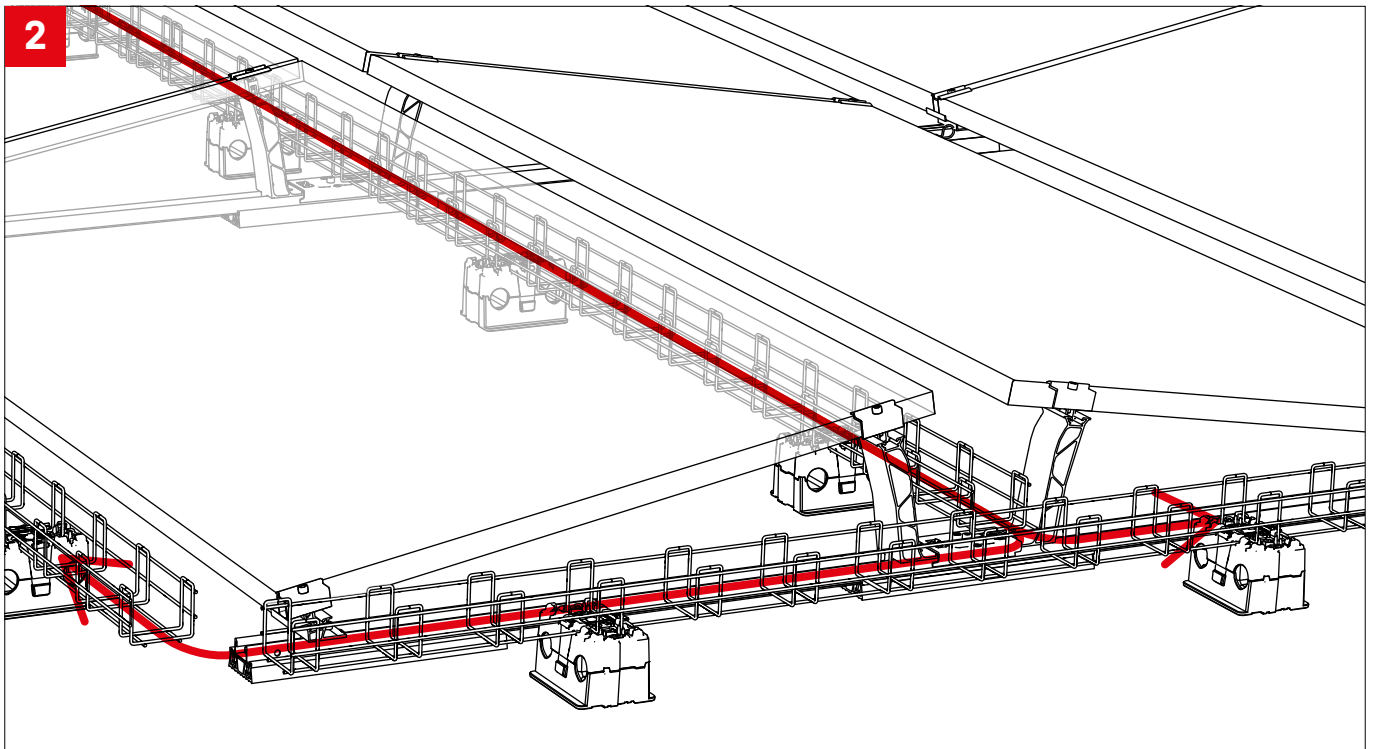
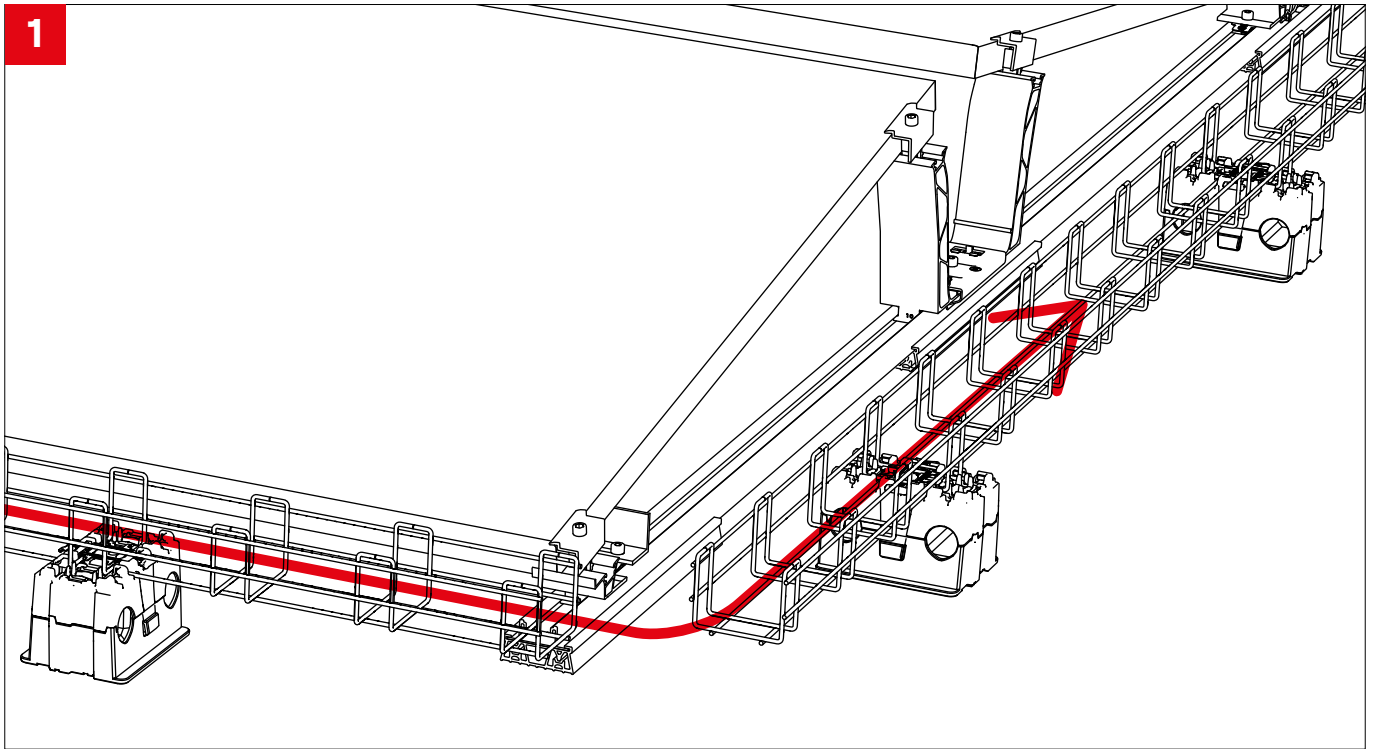


Module frame earthing with TerraGrif



Cable management with PVX MultiMount





Notes



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: +49 7159 42059-0**

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

K2 Systems GmbH

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D-Dome 6 Classic Assembly EN V1 | 0825 · Subject to change
Product illustrations are exemplary and may differ from the original.



Connecting Strength

k2-systems.com