

Assembly Manual

# WallPV PerfoRail M

Spacer screw ETICS/curtain facade  
and InsertionRail



Connecting Strength

[k2-systems.com](https://www.k2-systems.com)

# Content

• Tools overview	3
• General safety information	4
• The following guidelines apply	5
· Facade requirements	5
· Important mounting instructions	5
• Components	6
• Assembly	8
· Portrait / Landscape	8
· Distance markers wall profile PerfoRail M	8
· Pre-drilling facade	9
· Assembly spacer screws	9
· CrossConnector part 1	10
· Insert transom: InsertionRail	10
· CrossConnector part 2	11
· Fixing InsertionRail with spring plug	11
· Securing with AntiSlip Clip	12
· Rail connection with RailConnector	12
· FixStop	13
· Side guarding with EndStop part 1	14
· Insert modules	15
· Placement ModuleSafety	15
· Side guarding with EndStop part 2	16
• Optional	17
· InsertionRail Cover	17
· TerraGrif K2U17	17
· TerraGrif PL	18
• Notes	19

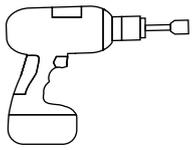
## Quality tested - several certifications

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](http://k2-systems.com)

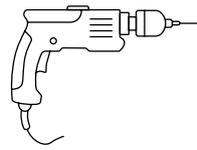
# Tools overview



6 mm



8 mm



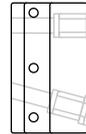
10 mm



6 - 35 Nm  
(4.5 - 22.2 lb-ft)



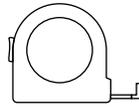
4/6 mm



Drilling jig



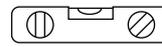
4/6 mm



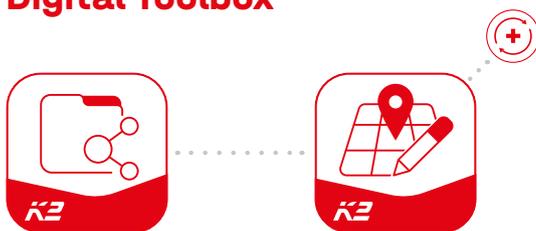
≥ 3.0 m



≥ 6.0 m



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The K2+ interface enables seamless project data transfer to the planning tools of well-known inverter manufacturers or yield planning tools.

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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](http://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 safeguards 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 [www.k2-systems.com/en/technical-information](http://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 [k2-systems.com/en/warranty-terms-and-conditions](http://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 in 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.

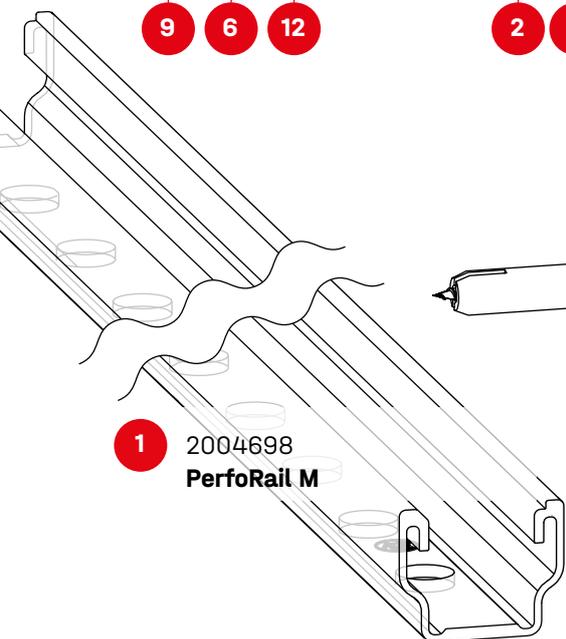
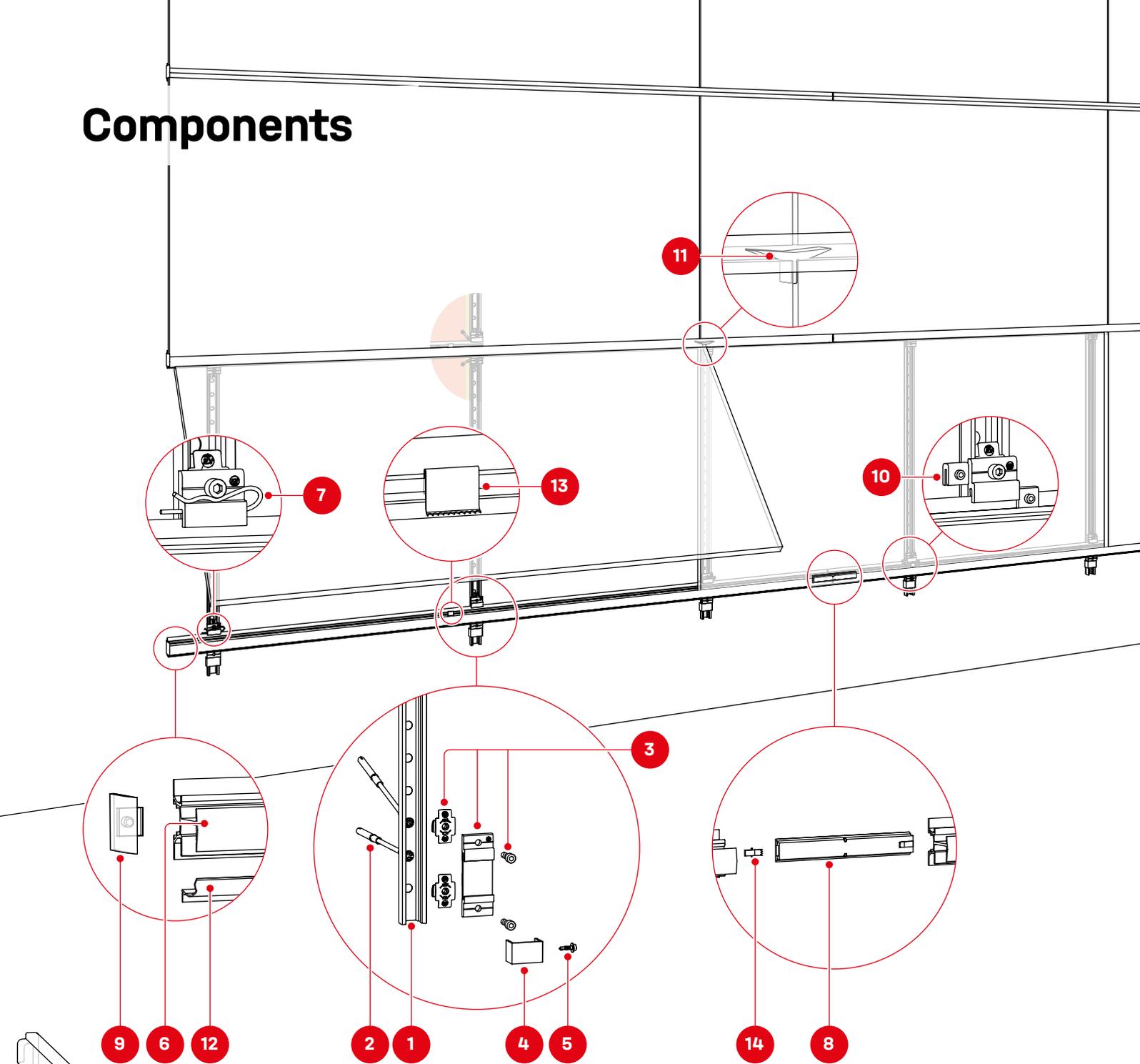


## Important mounting instructions

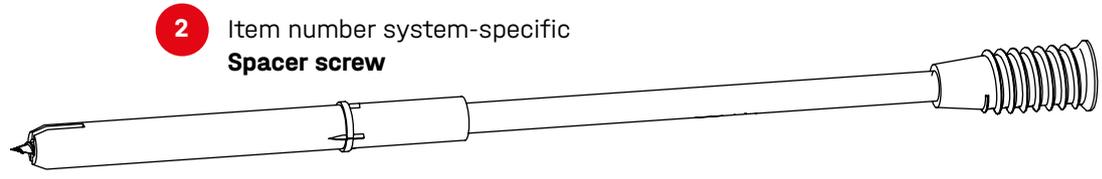
- On-site general standards and regulations for lightning protection must be observed and consultation with a specialist to create a lightning protection concept is recommended (use lightning protection clamp if necessary). It should be noted that the installation direction is from bottom to top. Country-specific regulations must be observed.
- 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.  
The distance between PerfoRails in the direction of the high crests as well as the InsertionRails must be at least 30 mm.

- Observe the specifications for fitting the Reisser spacer screw, see also demo video: <https://k2-systems.com/reisser-spacer-screws>
- The screw penetration of the plaster layer must be sealed.
- Planning: In order to compensate for unevenness, we recommend planning a gap of 20 mm between the rail and the substrate.
- Each cut-to-size rail section (InsertionRail) must have at least 2 fastening points (CrossConnector).
- Rail cut (InsertionRail)  $\geq$  70 cm
- Horizontal distance between the modules must be at least 5 mm (ModuleSafety).
- Min. 50 mm projection from the end of the rail (InsertionRail) to the outer edge of the CrossConnector.
- 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.

# Components

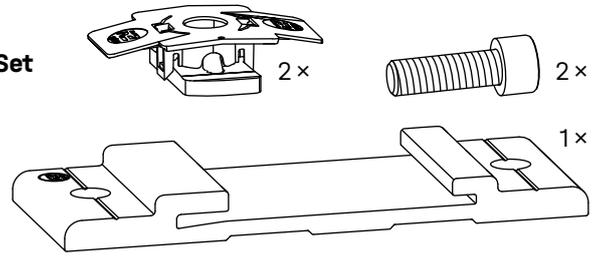


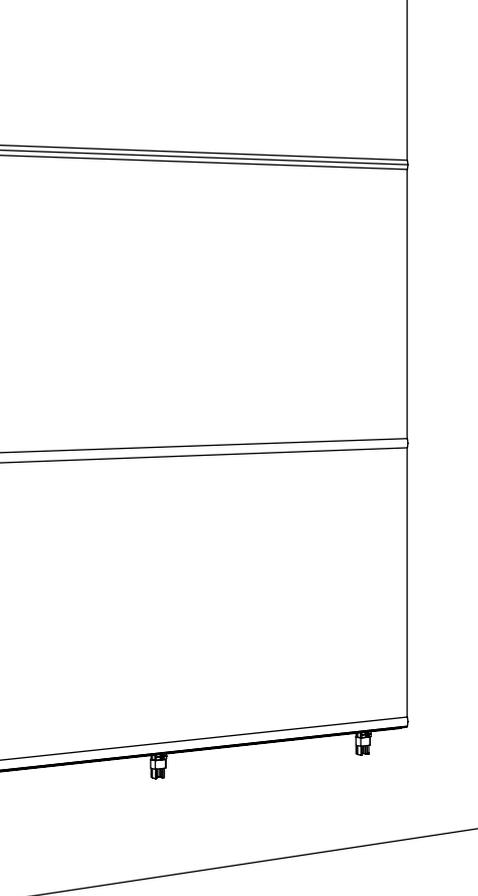
**1** 2004698  
**PerfoRail M**



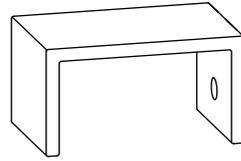
**2** Item number system-specific  
**Spacer screw**

**3** 2004374/2004375  
**CrossConnector 2.0 Set**  
**silver/black**





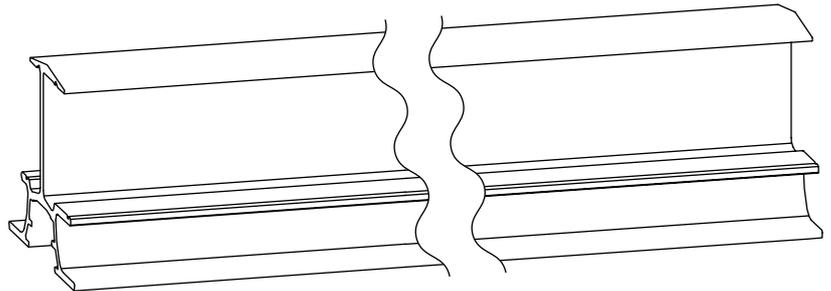
**4** 2004289  
**Rail AntiSlip Clip**



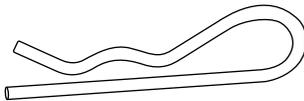
**5** 2004432  
**Self-tapping metal screw  
5,5 × 19**



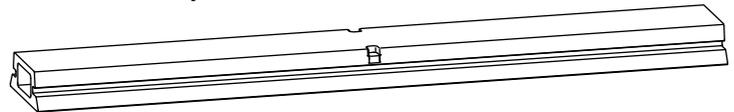
**6** Item number system-specific  
**InsertionRail 2.0 silver/black**



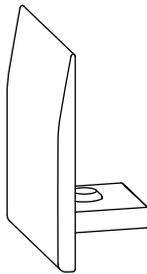
**7** 2001196  
**Spring plug**



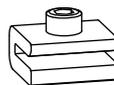
**8** 2004355/2004322  
**RailConnector 2.0 silver/black**



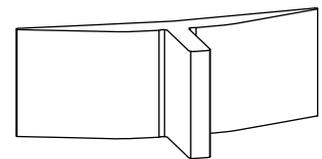
**9** 2004372/2004373  
**EndStop 2.0 silver/black**



**10** 2004370  
**FixStop 2.0**

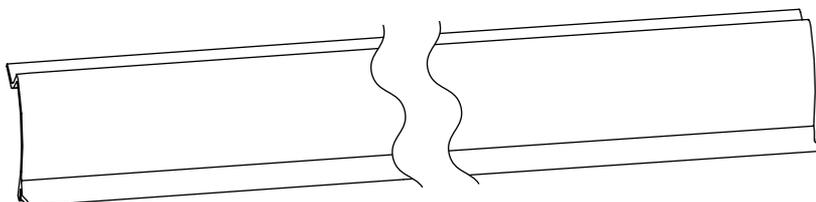


**11** 2004290  
**ModuleSafety**



## Optional

**12** Item number system-specific  
**InsertionRail 2.0 Cover  
silver/black**



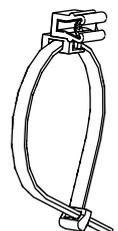
**13** 2000056  
**TerraGrif K2U17**



**14** 2004102  
**TerraGrif PL**

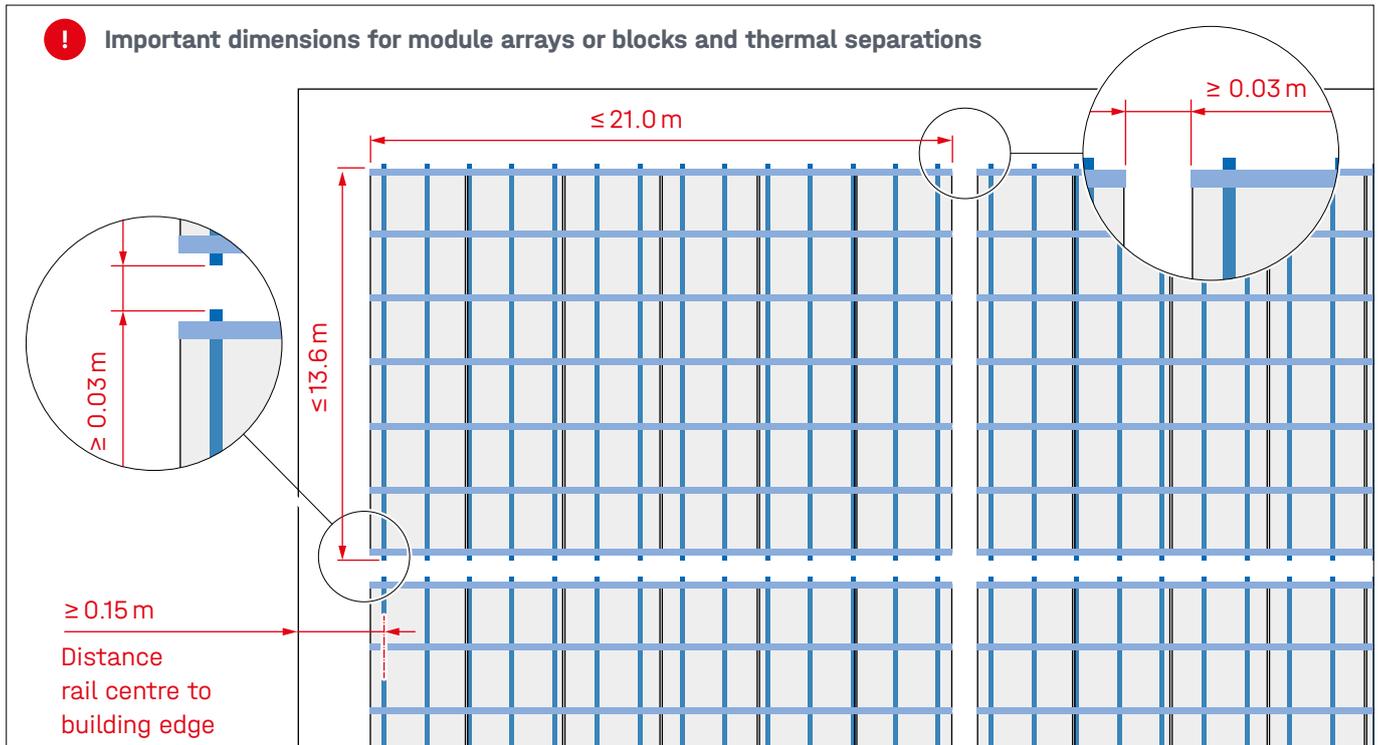


2002870  
**Cable Manager**

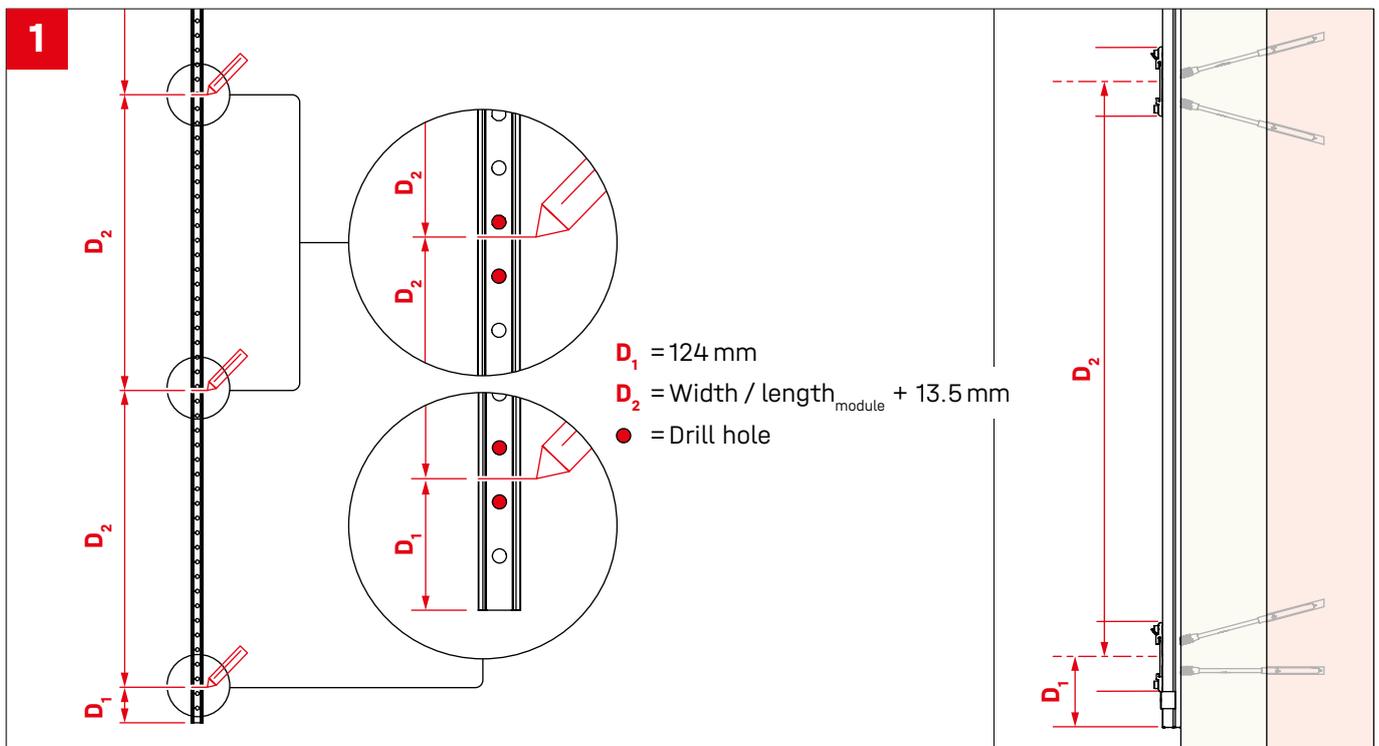


# Assembly

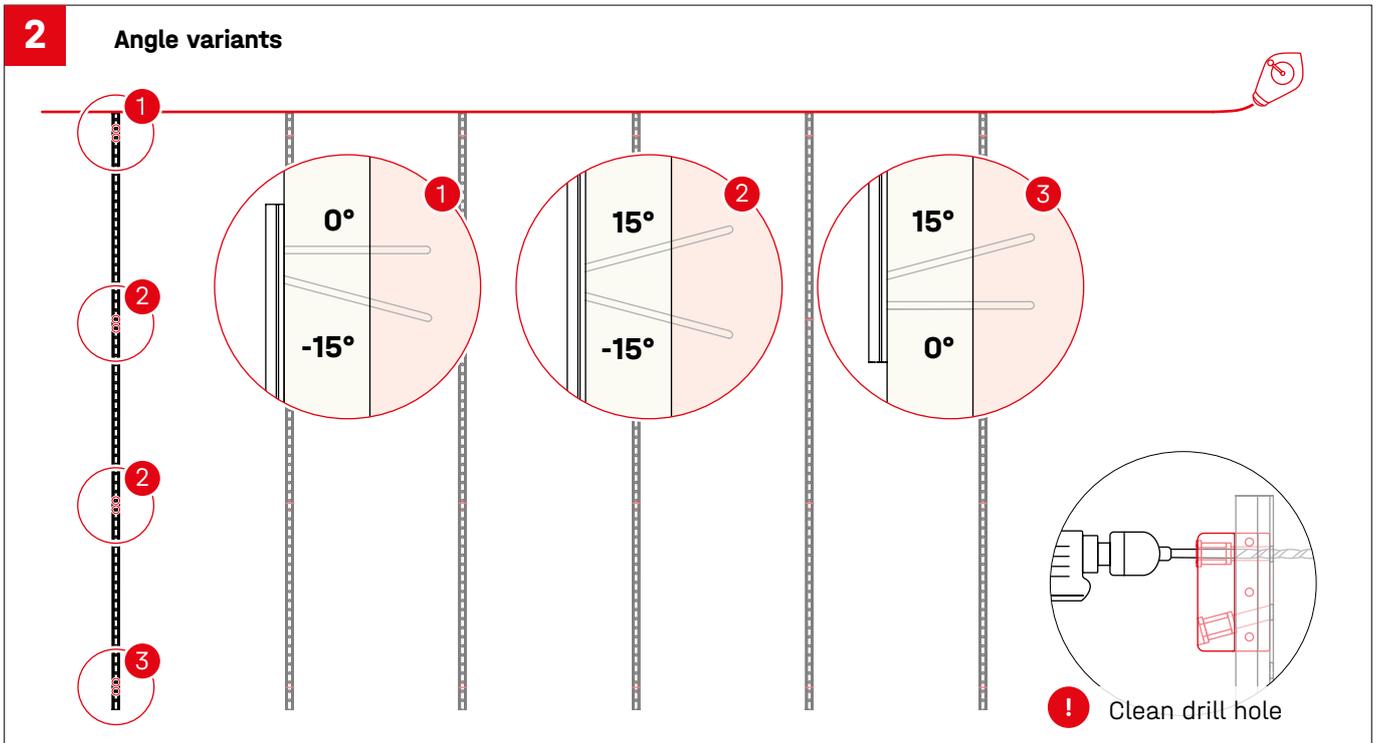
## Portrait / Landscape



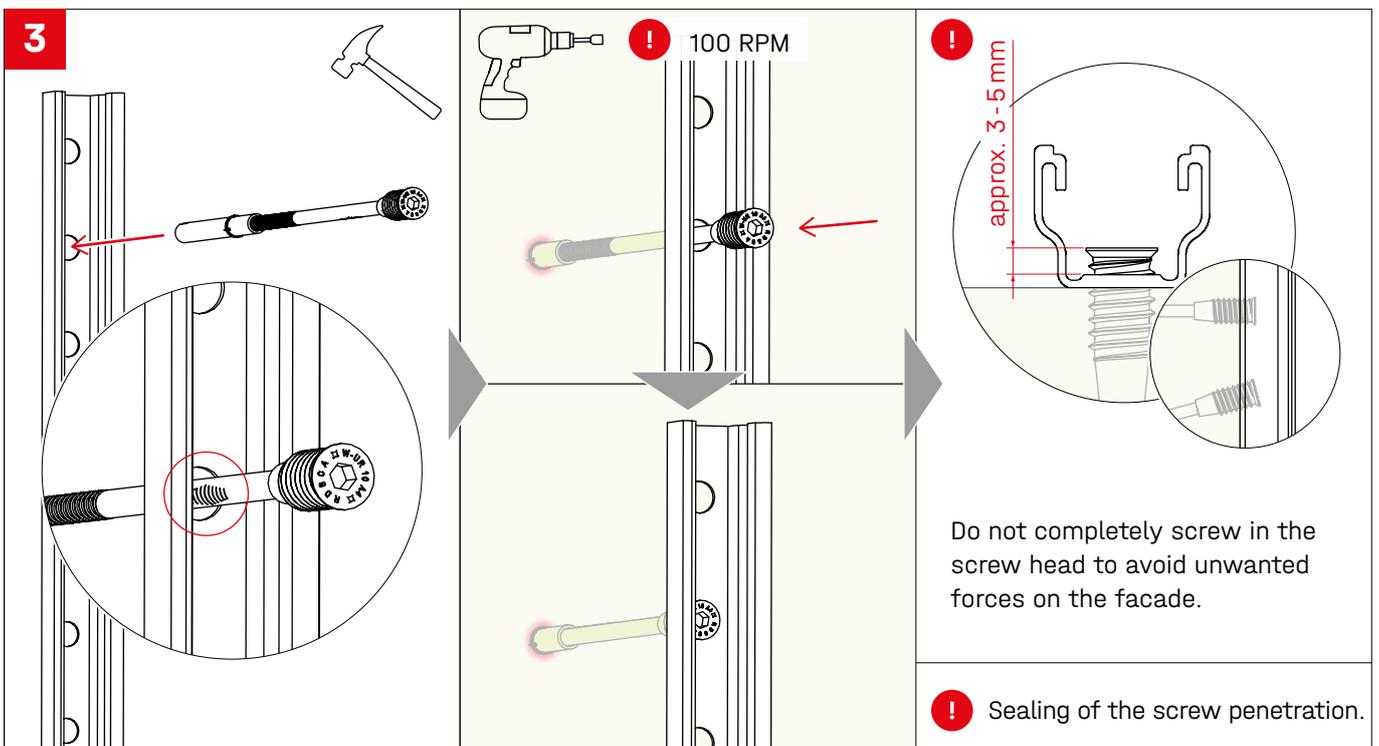
## Distance markers wall profile PerfoRail M



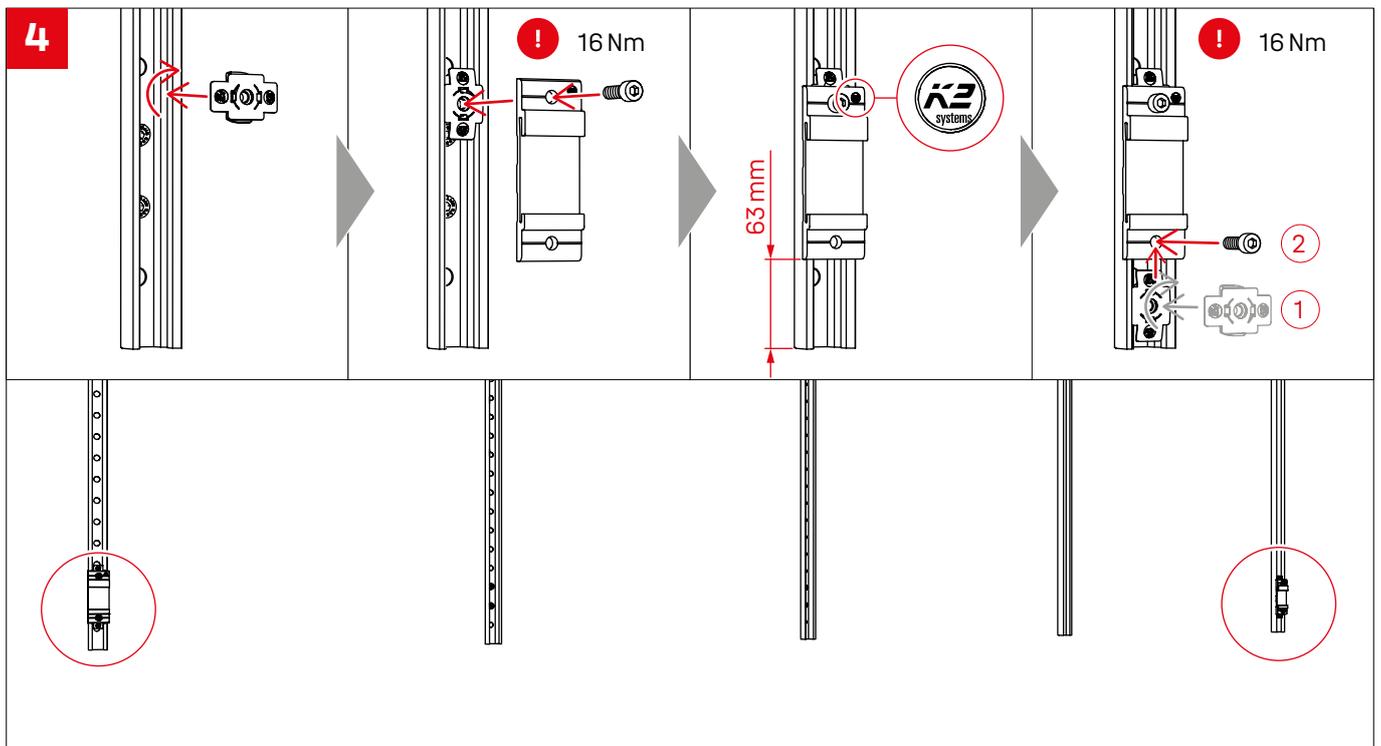
## Pre-drilling facade



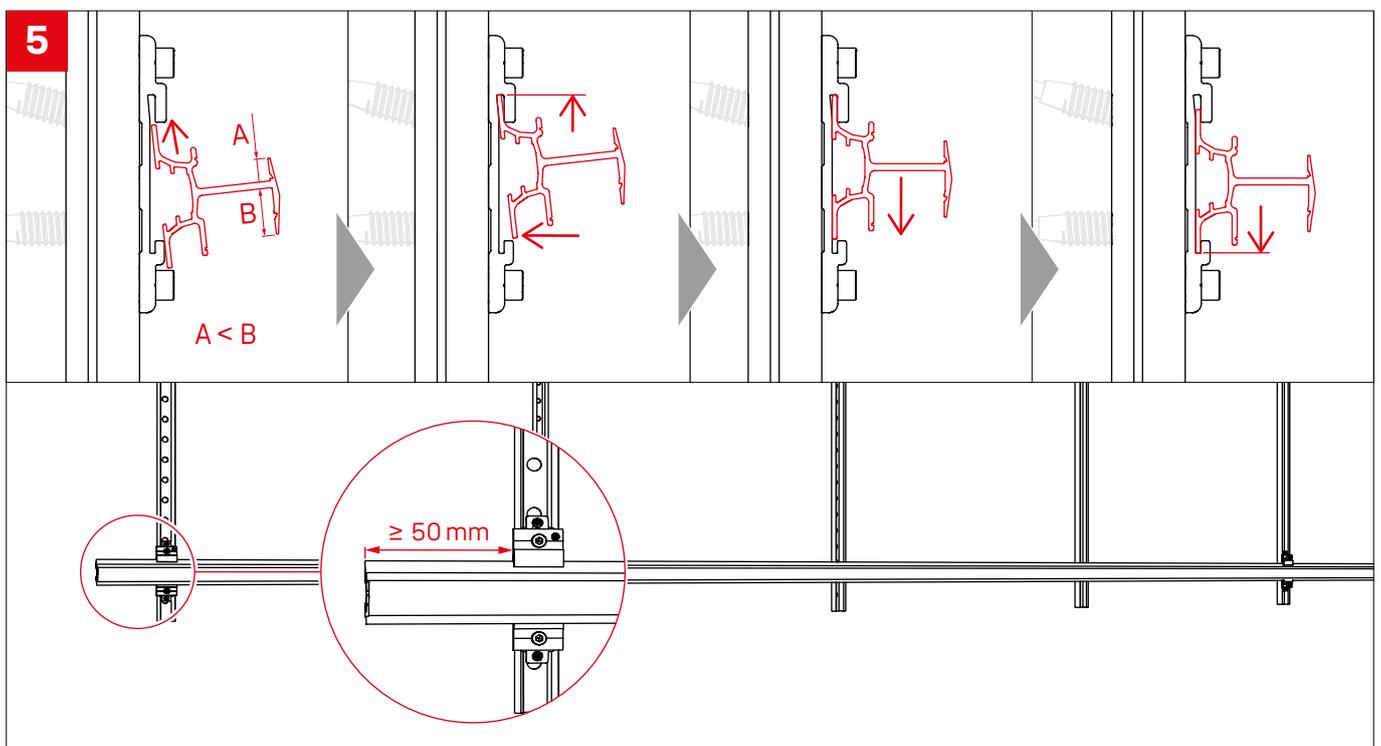
## Assembly spacer screws



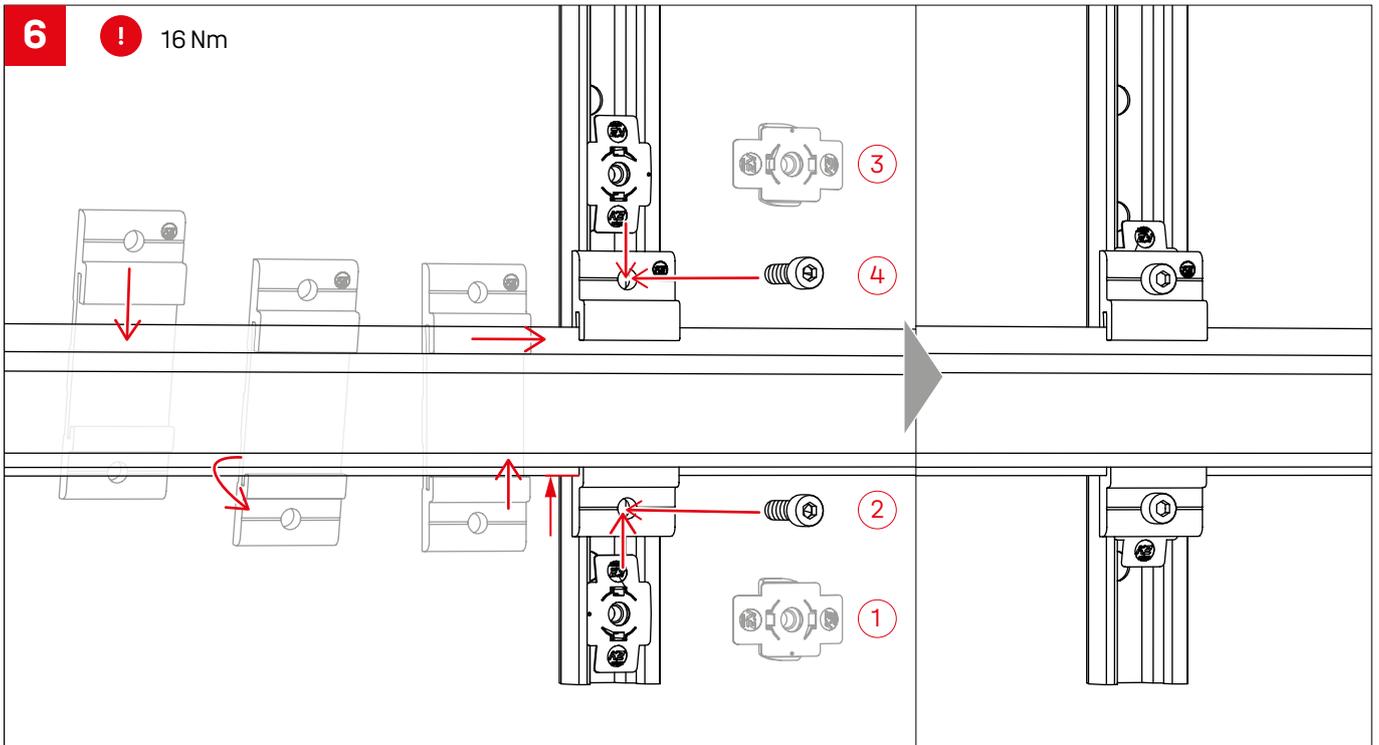
## CrossConnector part 1 - mount outer CrossConnectors on PerfoRail M



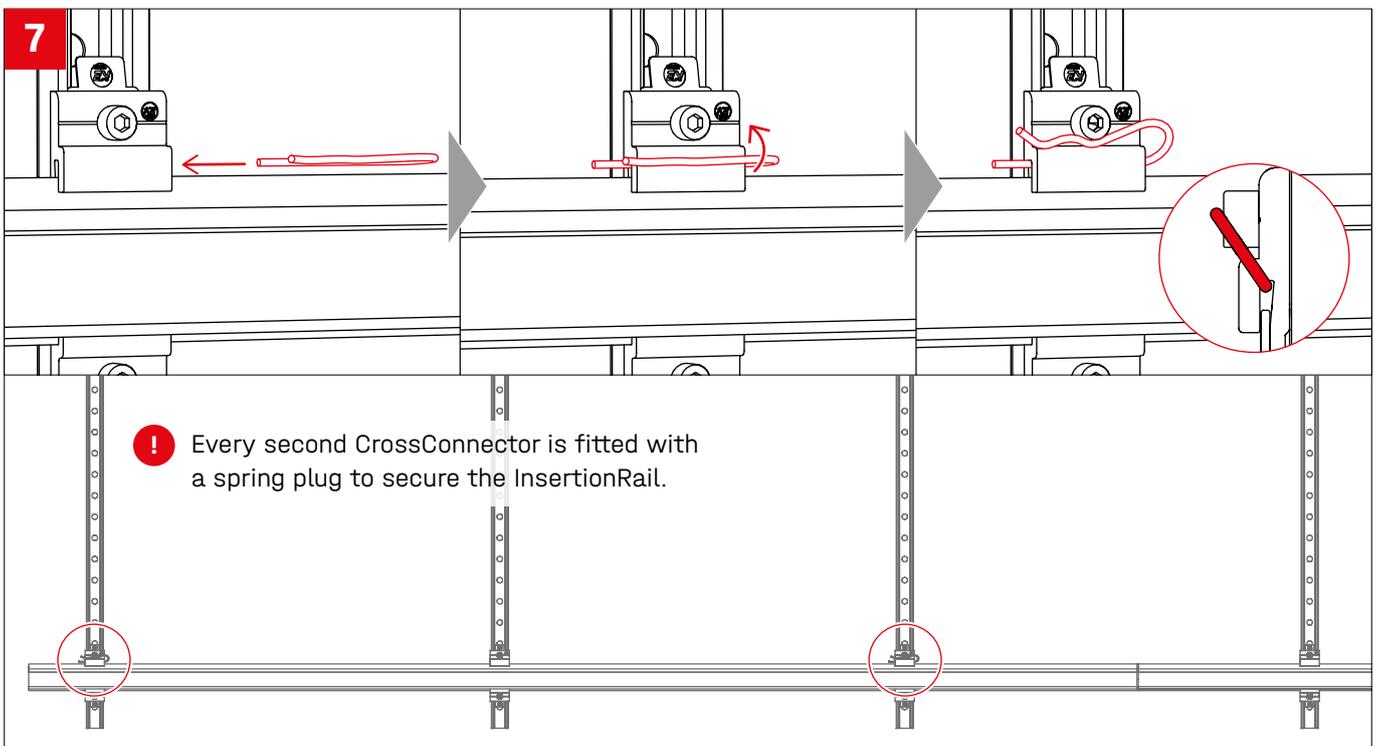
## Insert transom: InsertionRail



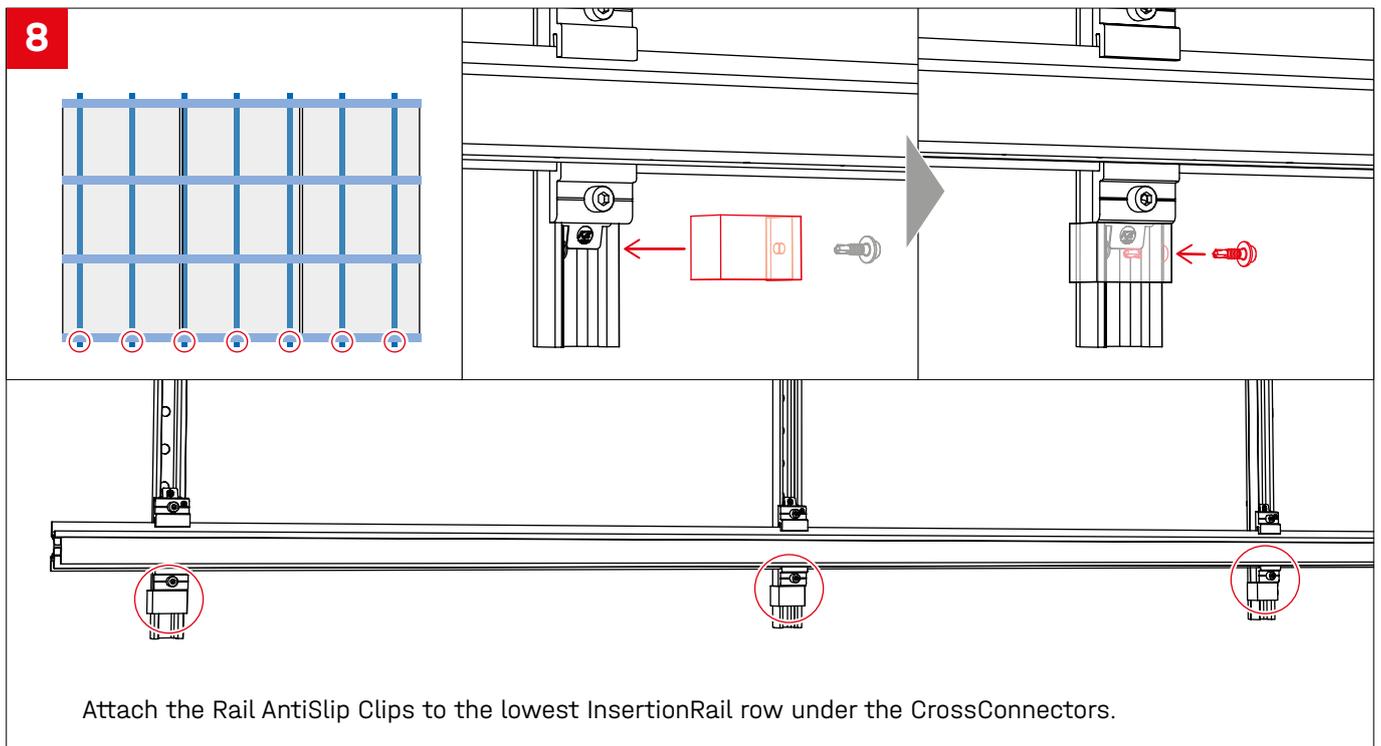
## CrossConnector part 2 - mount inner CrossConnectors on PerfoRail M



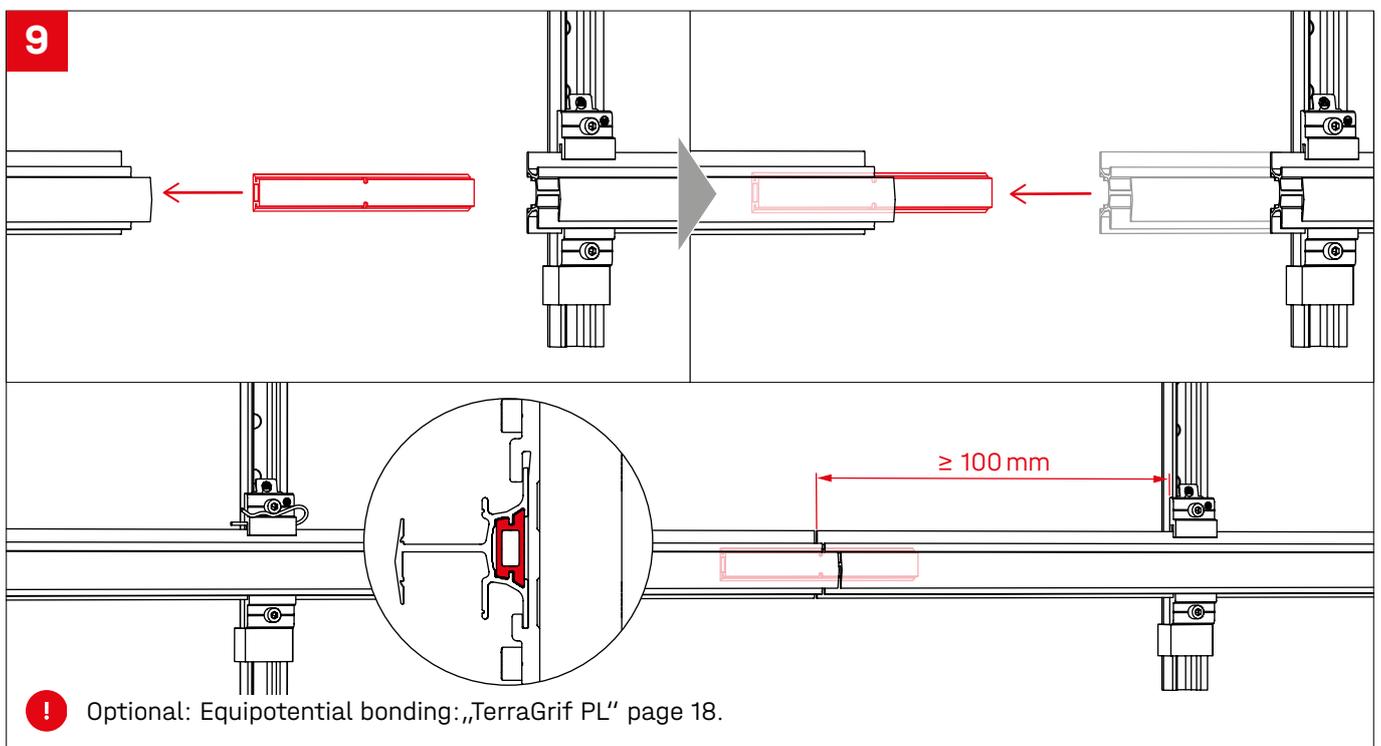
## Fixing InsertionRail with spring plug



## Securing with AntiSlip Clip



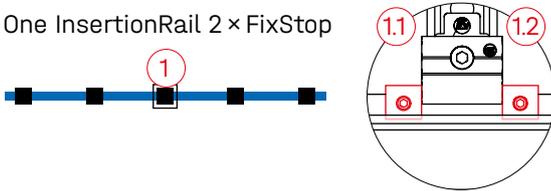
## Rail connection with RailConnector



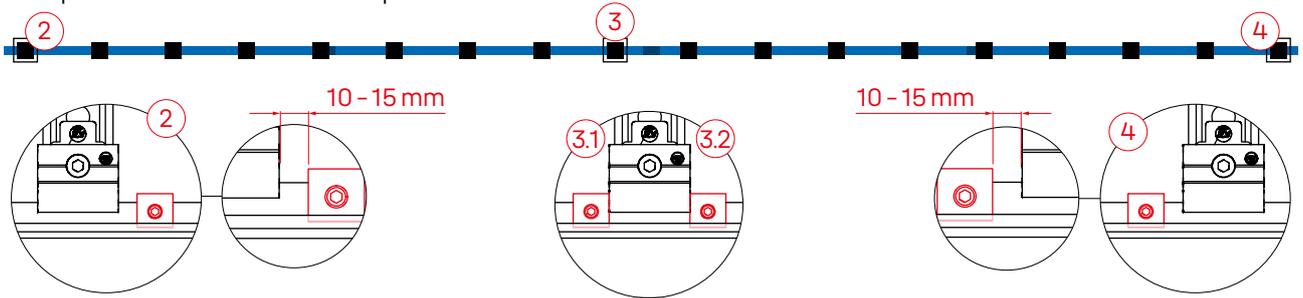
## FixStop - positioning

10a

One InsertionRail 2 × FixStop



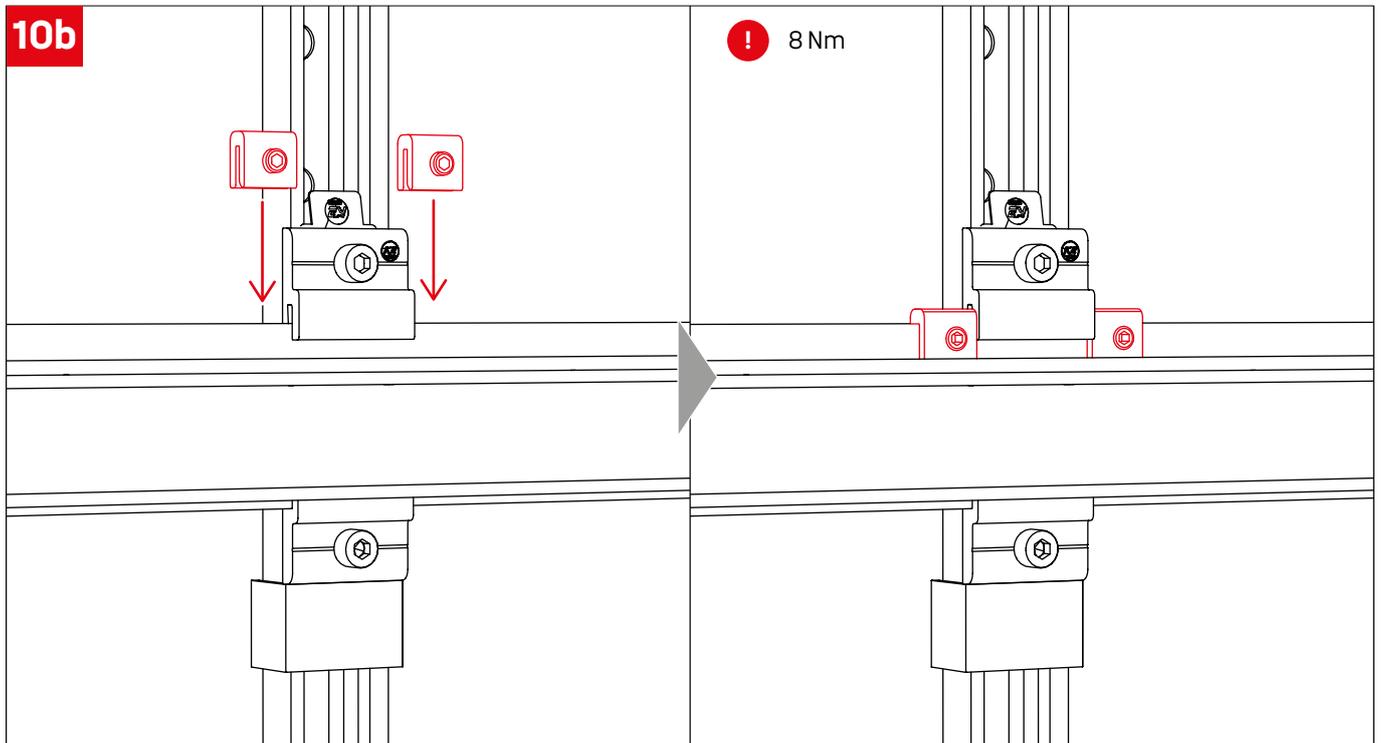
Multiple InsertionRails 4 × FixStop



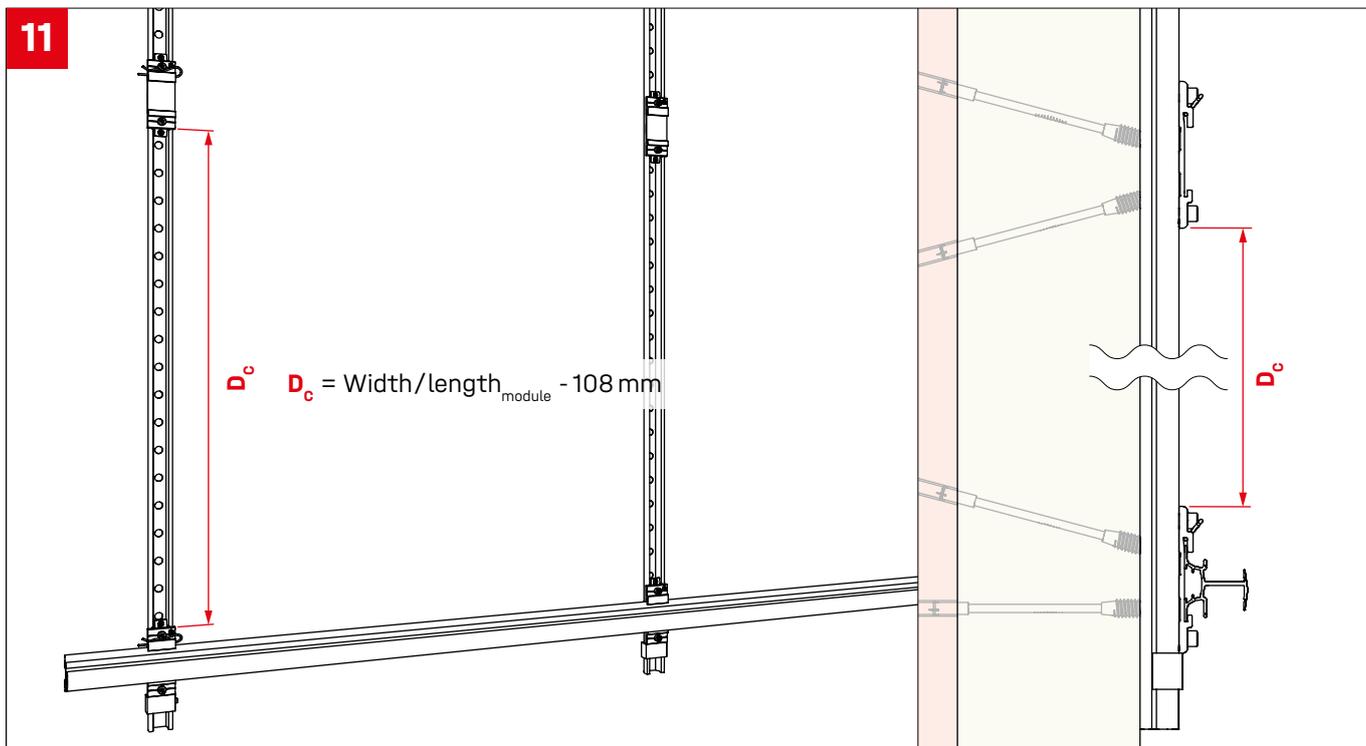
CrossConnector + FixStop    
  CrossConnector    
  RailConnector    
  InsertionRail

## FixStop - assembly

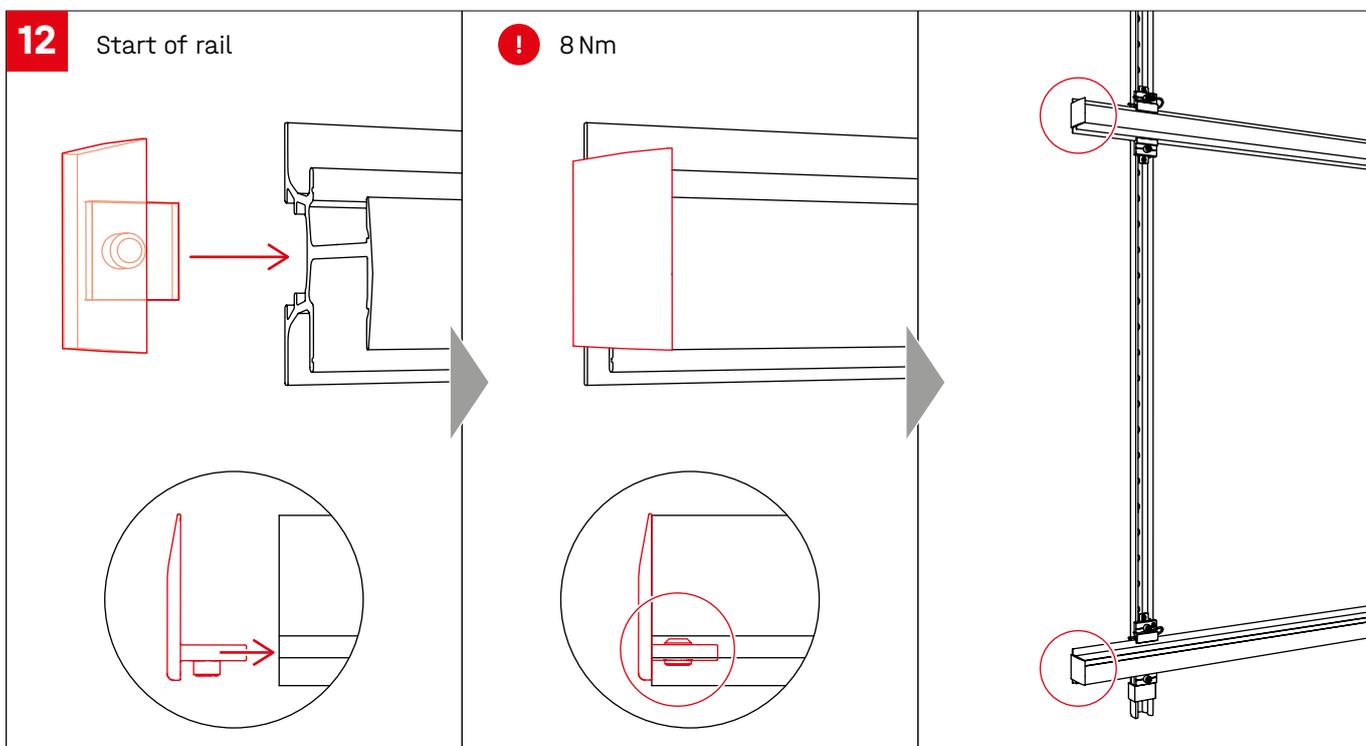
10b



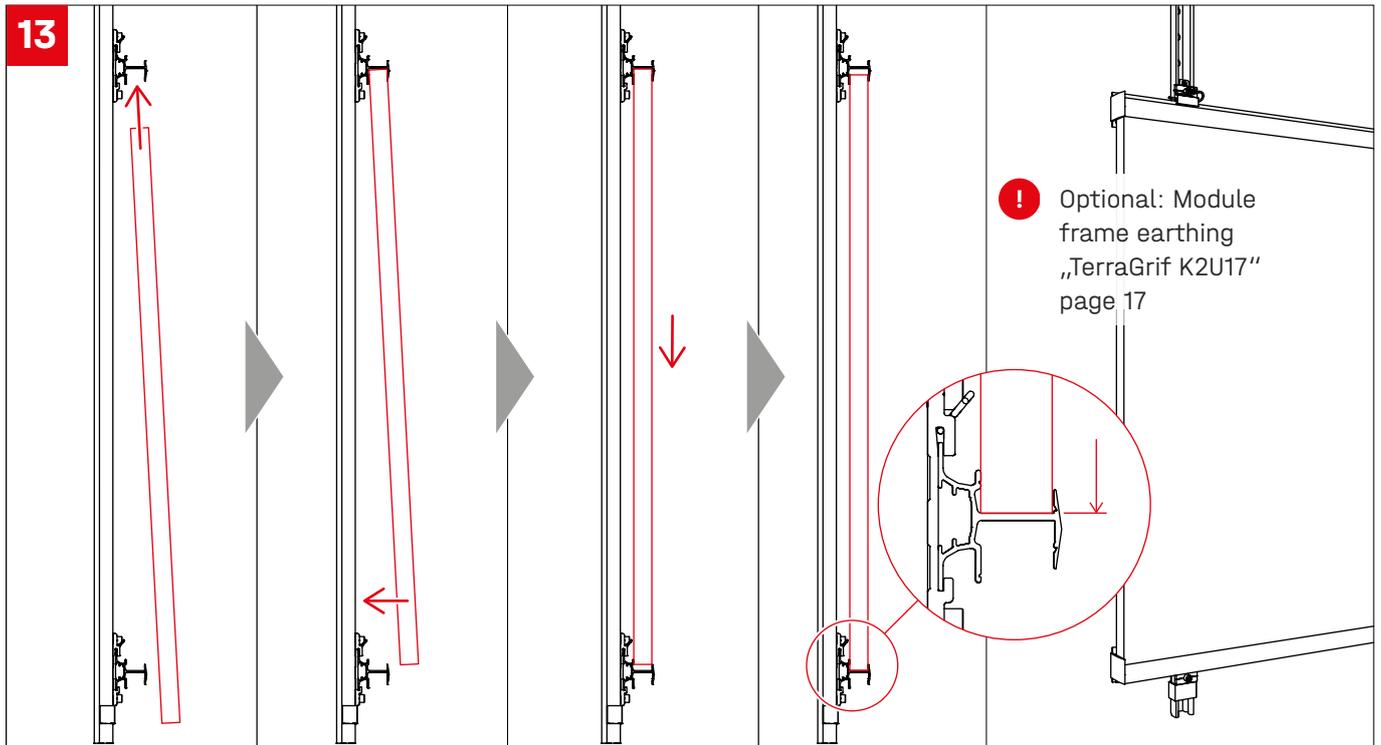
## Distance CrossConnectors



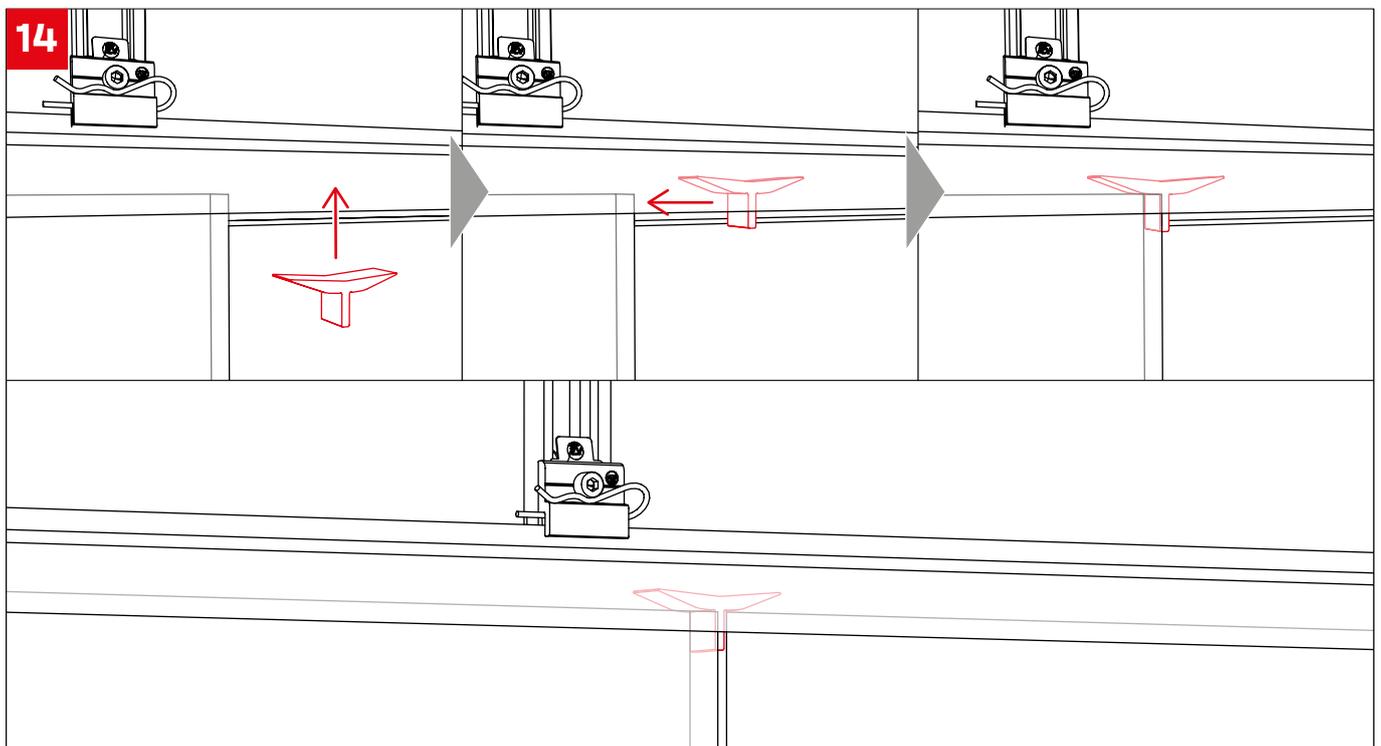
## Side guarding with EndStop part 1



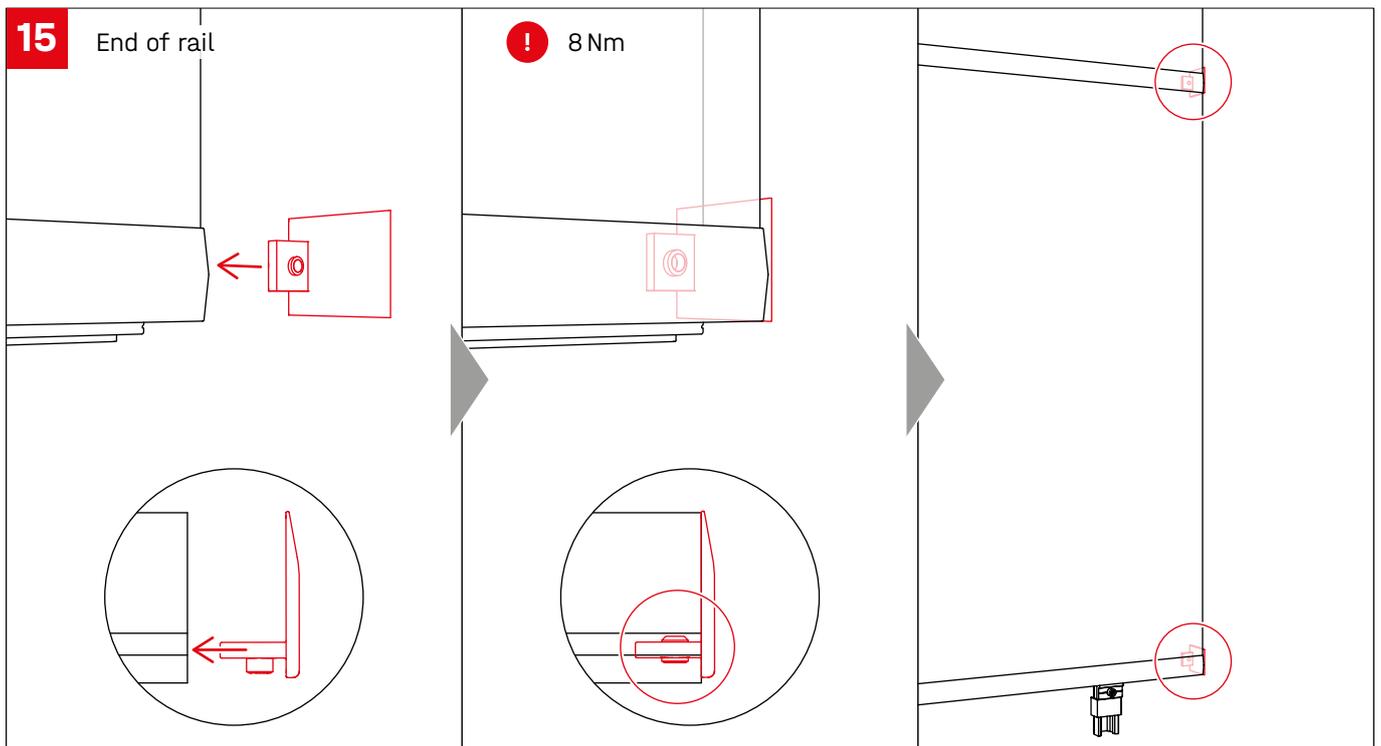
## Insert modules



## Placement ModuleSafety



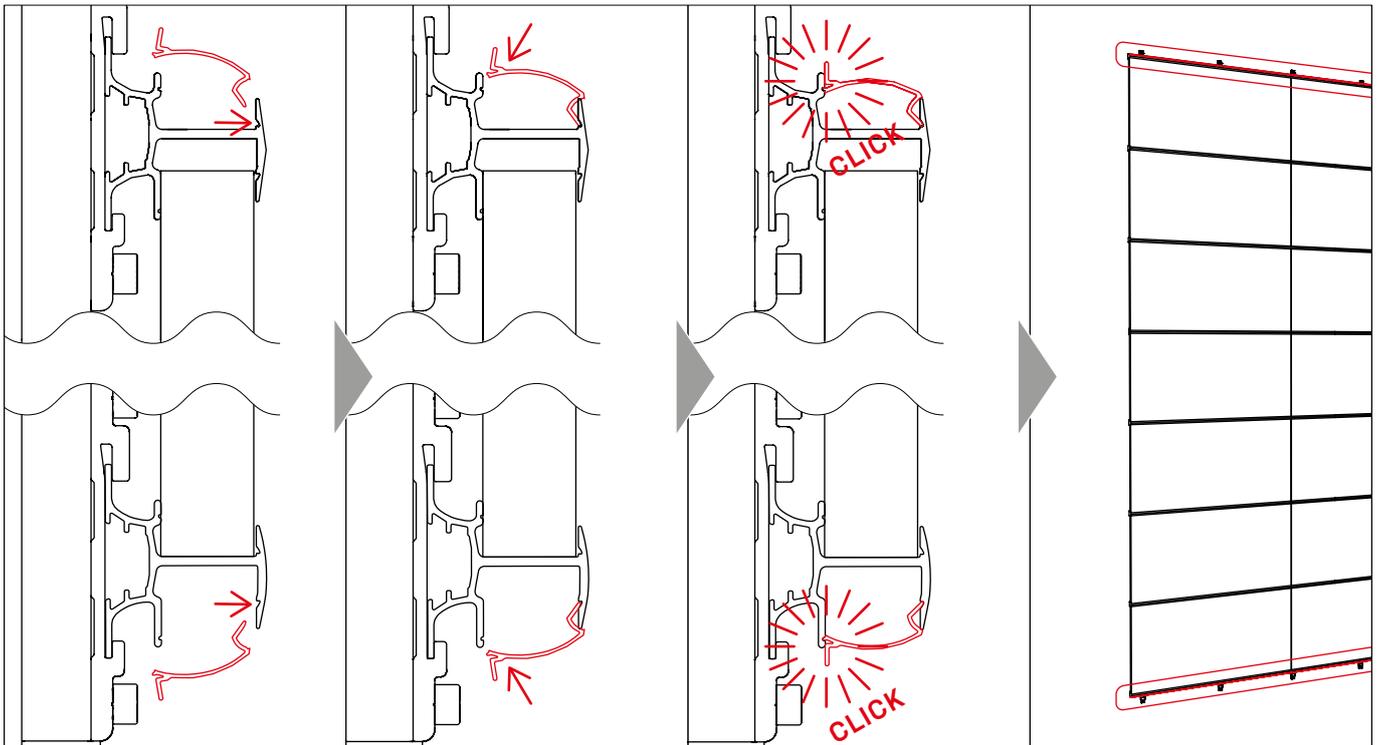
## Side guarding with EndStop part 2



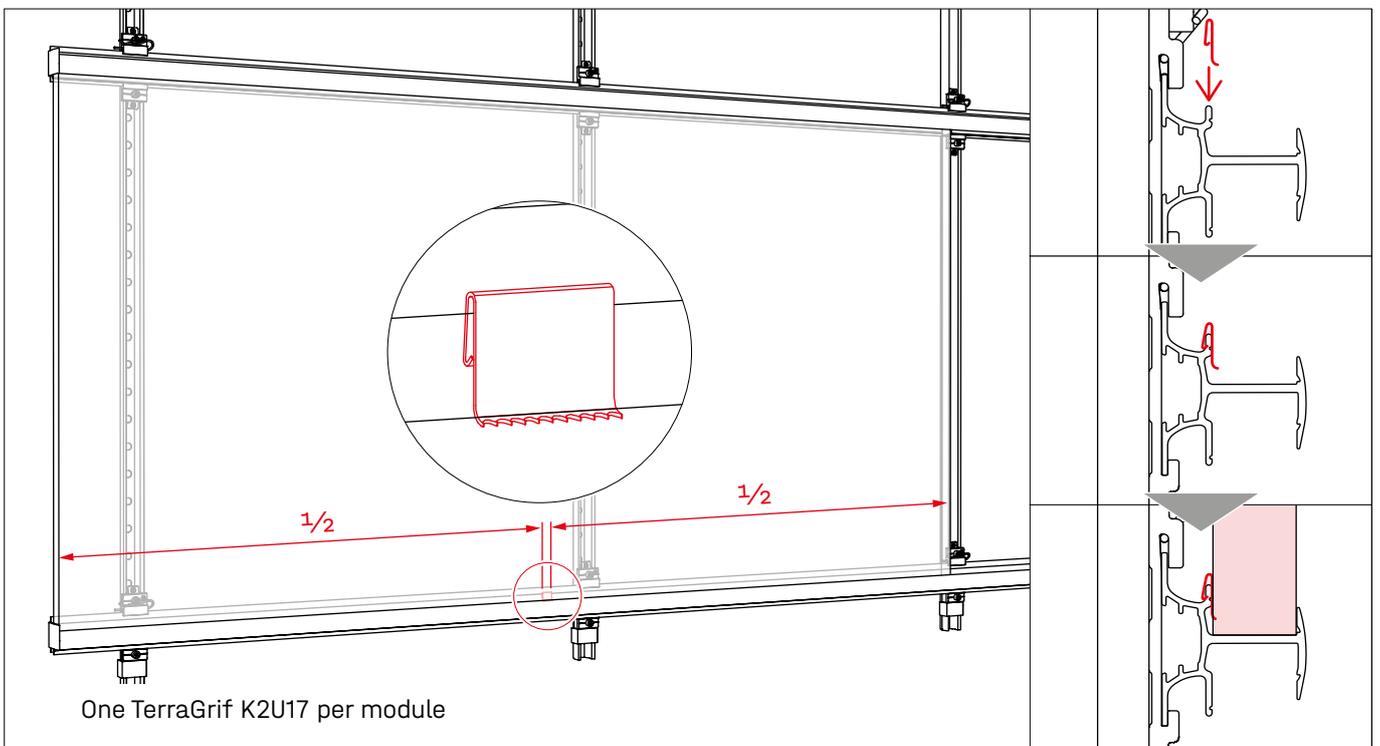
# Optional



## InsertionRail Cover

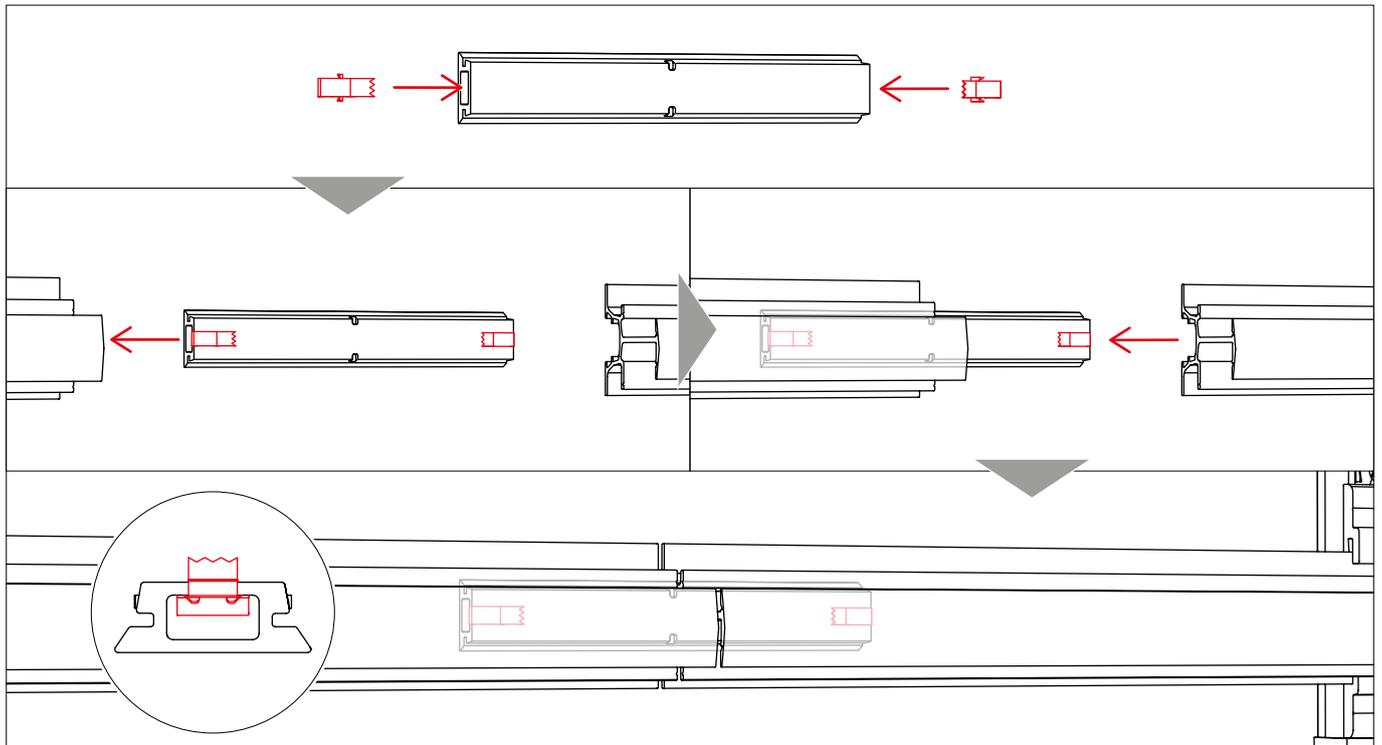


## TerraGrif K2U17



# Optional

## TerraGrif PL





## 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](https://k2-systems.com/en/contact)
- **Service Hotline: +49 7159 42059-0**

Our General Terms of Business apply. Please refer: [k2-systems.com](https://k2-systems.com)

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WallPV PerfoRail M EN V1 | 0225 · Subject to change  
Product illustrations are exemplary and may differ from the original.



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