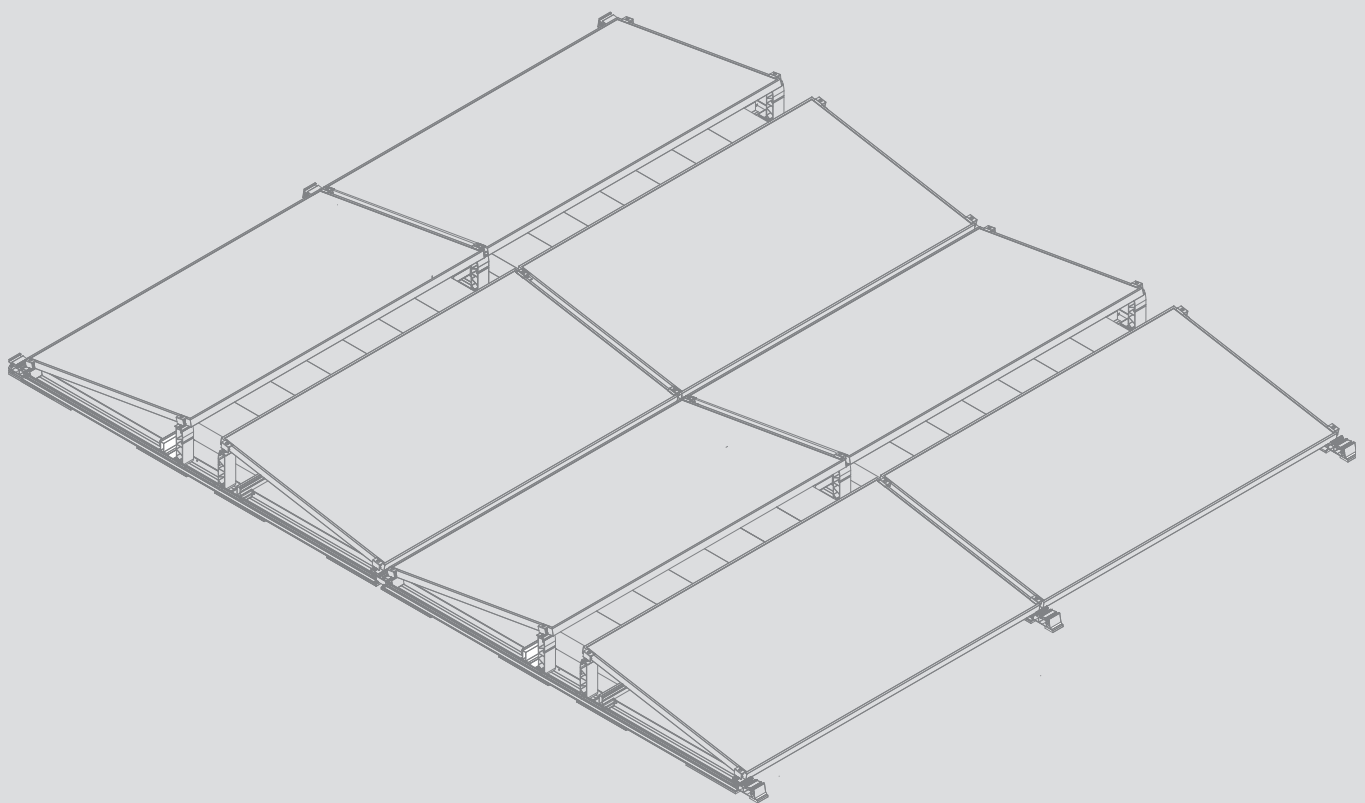
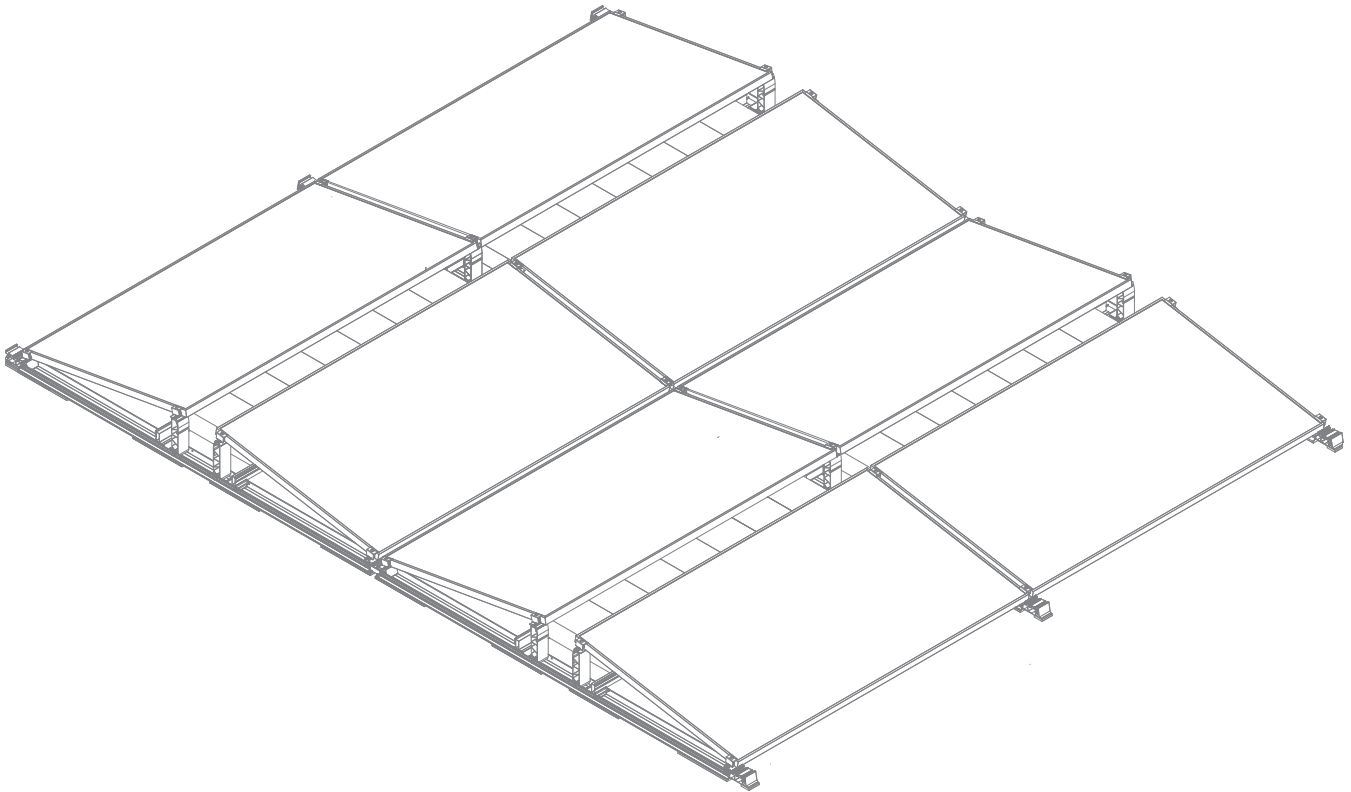


*Renusol **FS Pro** 10-EW*

EN | Installation Instructions



Renusol FS Pro 10-EW



EN | Usage

Mounting system for the installation of framed PV modules on flat roofs with a roof inclination of up to 5° without roof penetration.

Pre-installation considerations

The Renusol FS Pro is weighted with additional ballast (pavement slabs, etc.) to withstand wind loads. The required weight of the ballast depends on the building's height, location, the nature of the roof cover and wind loads.

The specified coefficient of friction in the calculation must be adhered to. This must be determined and documented on-site by a professional before installation at the customer's location. The coefficient of friction is a component for determining ballast and depends on local conditions.

Guidelines for the required ballast can be calculated according to Eurocode 1 (EN 1991).

For the Renusol FS Pro 10-EW mounting system, the modules are fastened at the corner of the short module side. It is necessary to check whether the clamping area specified by the module manufacturer is adhered to and that the permissible module loads are not exceeded.

Drainage holes in PV module frames must be kept clear and must not be covered by the mounting system. The roof surface must be free of snow, ice, and dirt for installation. Consider the applicable regulations, state of the art and current occupational safety guidelines during installation.

A prerequisite for intended use is always a suitable substrate that can withstand the forces (weight, wind and snow loads) applied. The water drainage of the flat roof and its direction must be considered.

The roof surface must be suitable for placing building protection

mats. The compatibility between building protection mats and roof foil must be checked in advance.

Wind Assessments

Suction and pressure coefficients have been determined through wind tunnel tests.

Relevant Documents

"General Installation, Maintenance, and Mounting Instructions," "Safety Instructions for the Installation Manual," "Warranty Conditions, and Disclaimer."

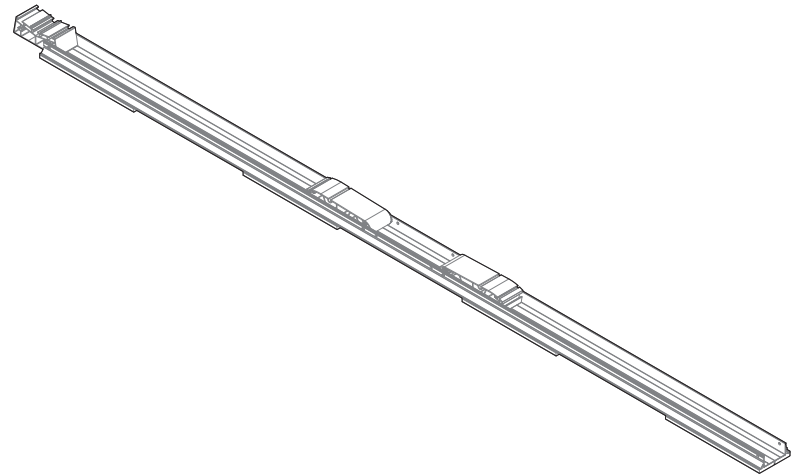
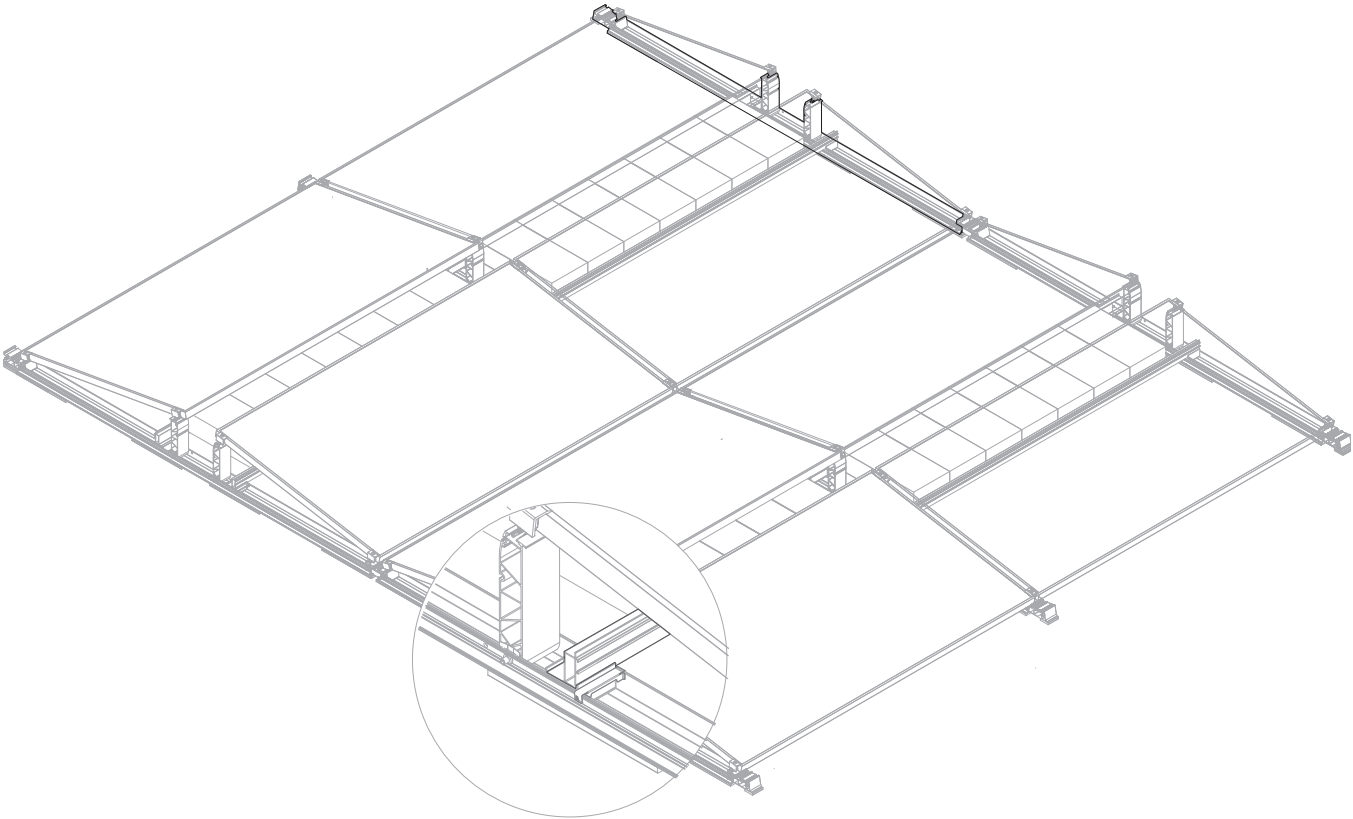
These documents are available at www.renusol.com

Warranty

Renusol's warranty is valid only when using the original Renusol FS Pro complete system in accordance with the warranty conditions. For statutory warranty/liability, please refer to Renusol's general terms and conditions.

www.renusol.com

Renusol FS Pro 10-EW Component Overview



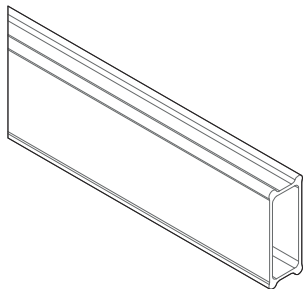
R520222
FS Pro 10-EW Base rail 2100 (Set)

R520223
FS Pro 10-EW Base rail 2300 (Set)

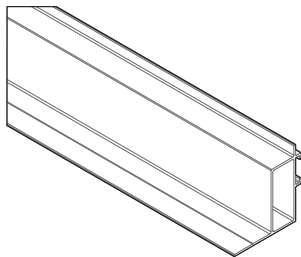
R520229
FS Pro 10-EW Base rail 2700 (Set)

Ballast rail

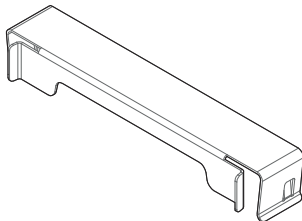
R500251
FS Pro Ballast profile connector



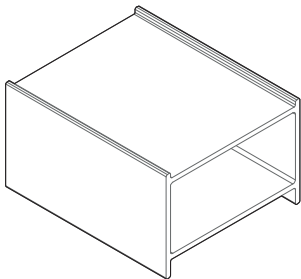
R500250
FS Pro Ballast profile 1900



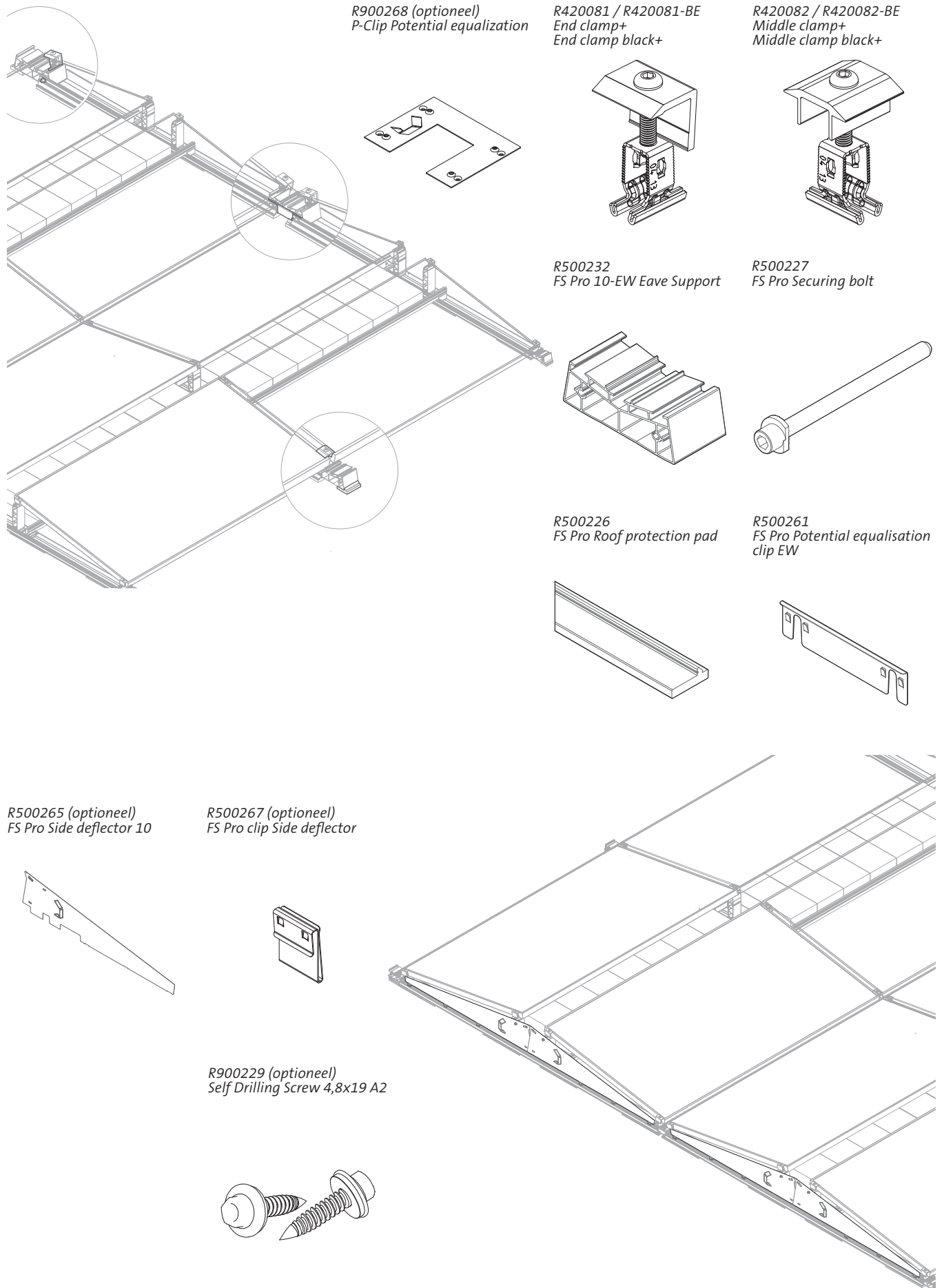
R500253
FS Pro Securing clip ballast support



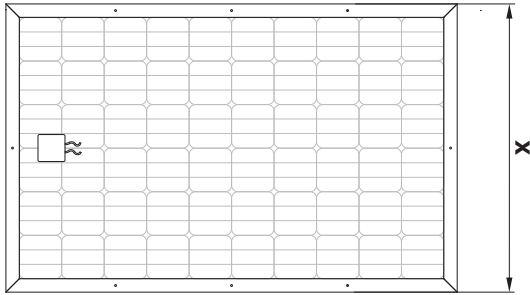
R500252
FS Pro Ballast profile support



Renusol FS Pro 10-EW Component Overview



Preparation / Preface



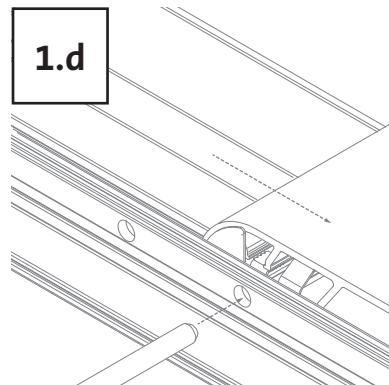
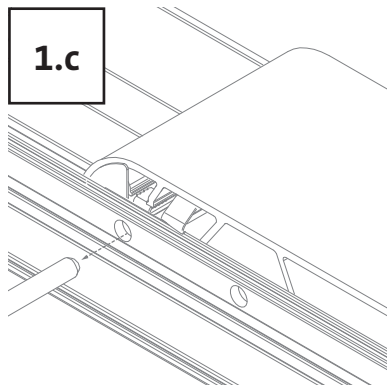
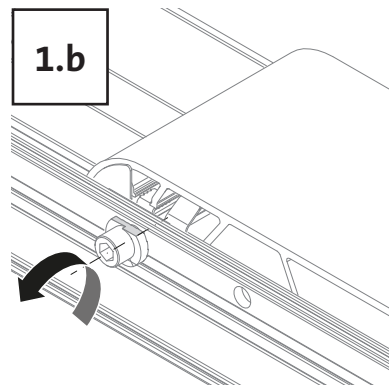
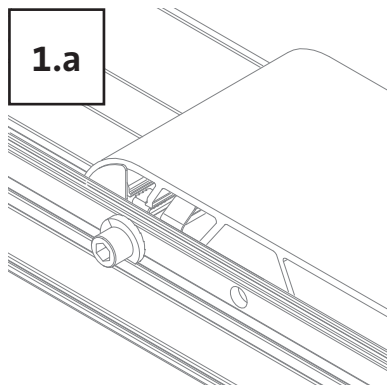
EN | Usage

The floor rails cover the following module dimensions:

- R520222: 1031-1070 mm
- R520223: 1071-1150 mm
- R520229: 1180-1310 mm

If you want to optimise the clamping on the short side according to the clamping range of the module, you can move the ridge support as shown in step 1 a-d.

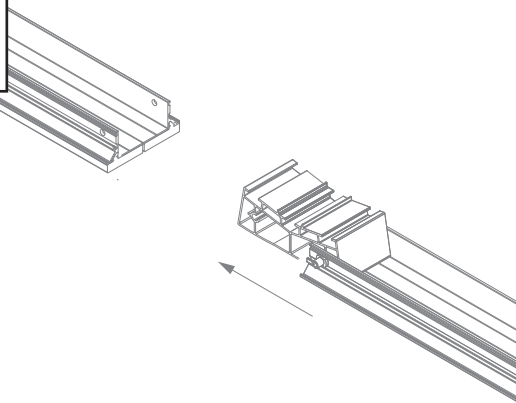
The support must be moved horizontally.



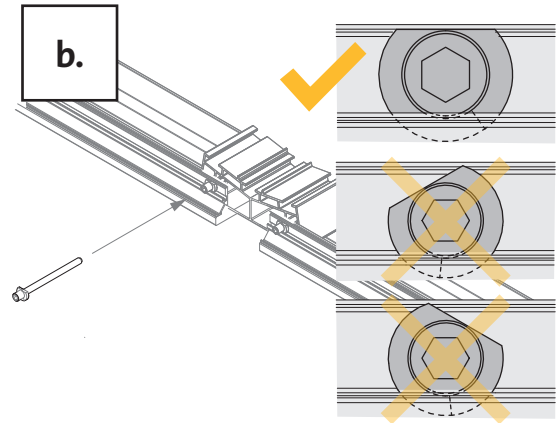
2

Rail Connection

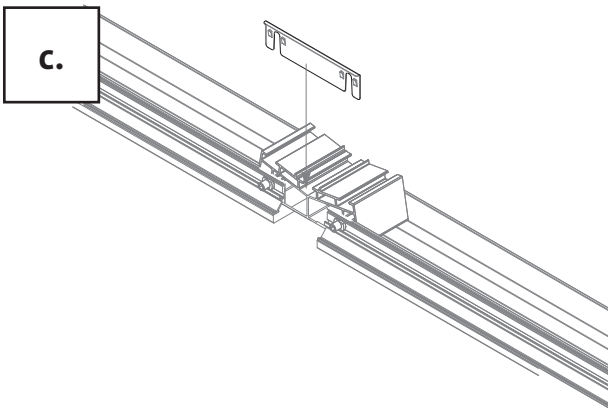
a.



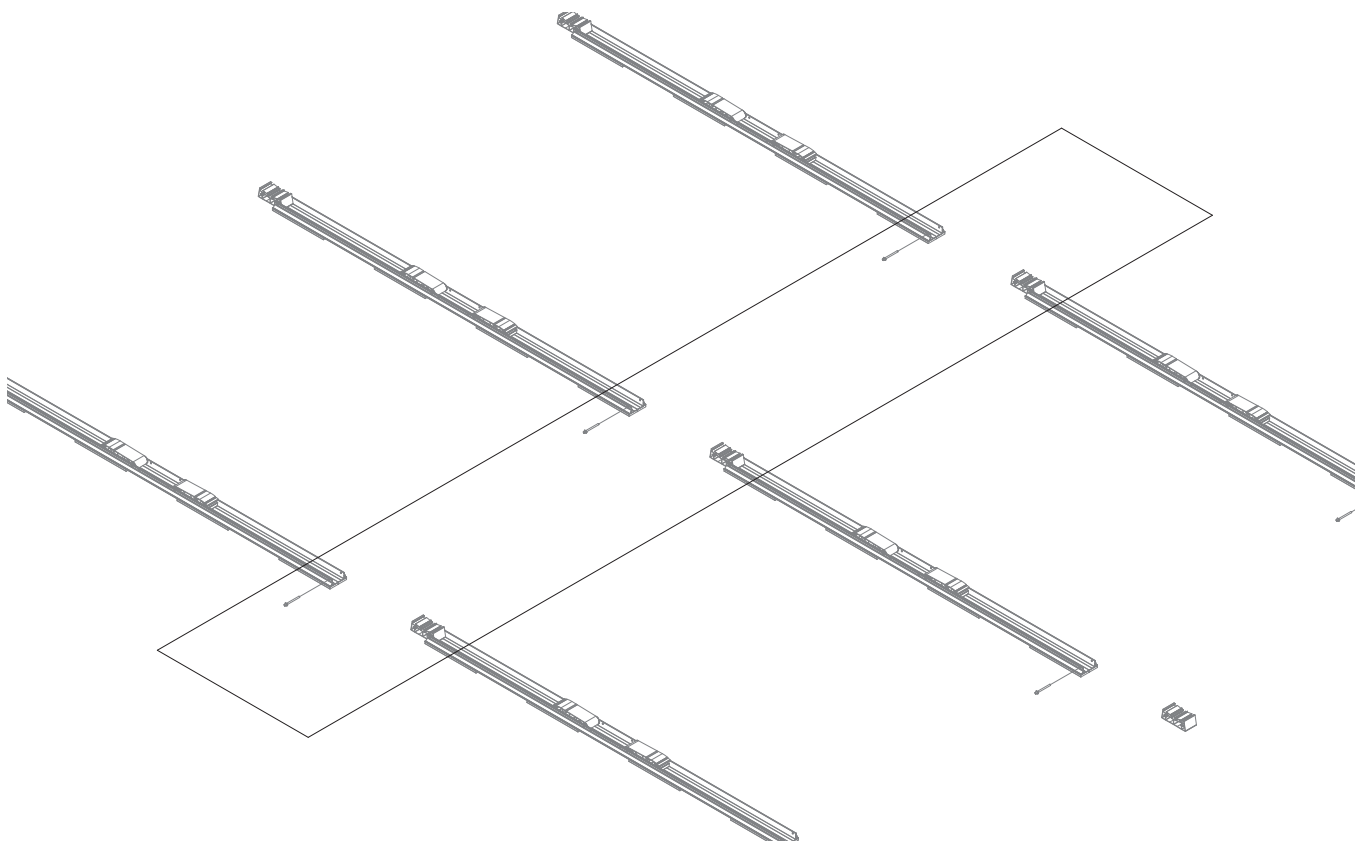
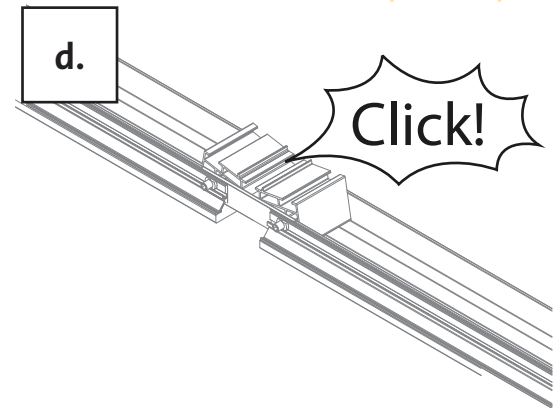
b.



c.



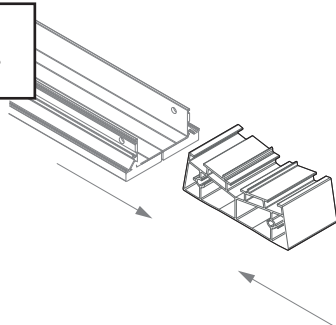
d.



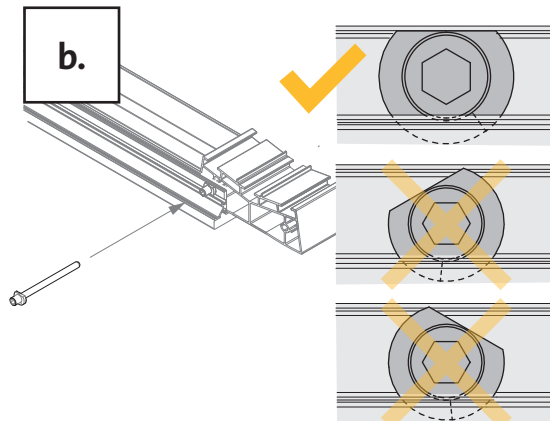
3.

Rail End

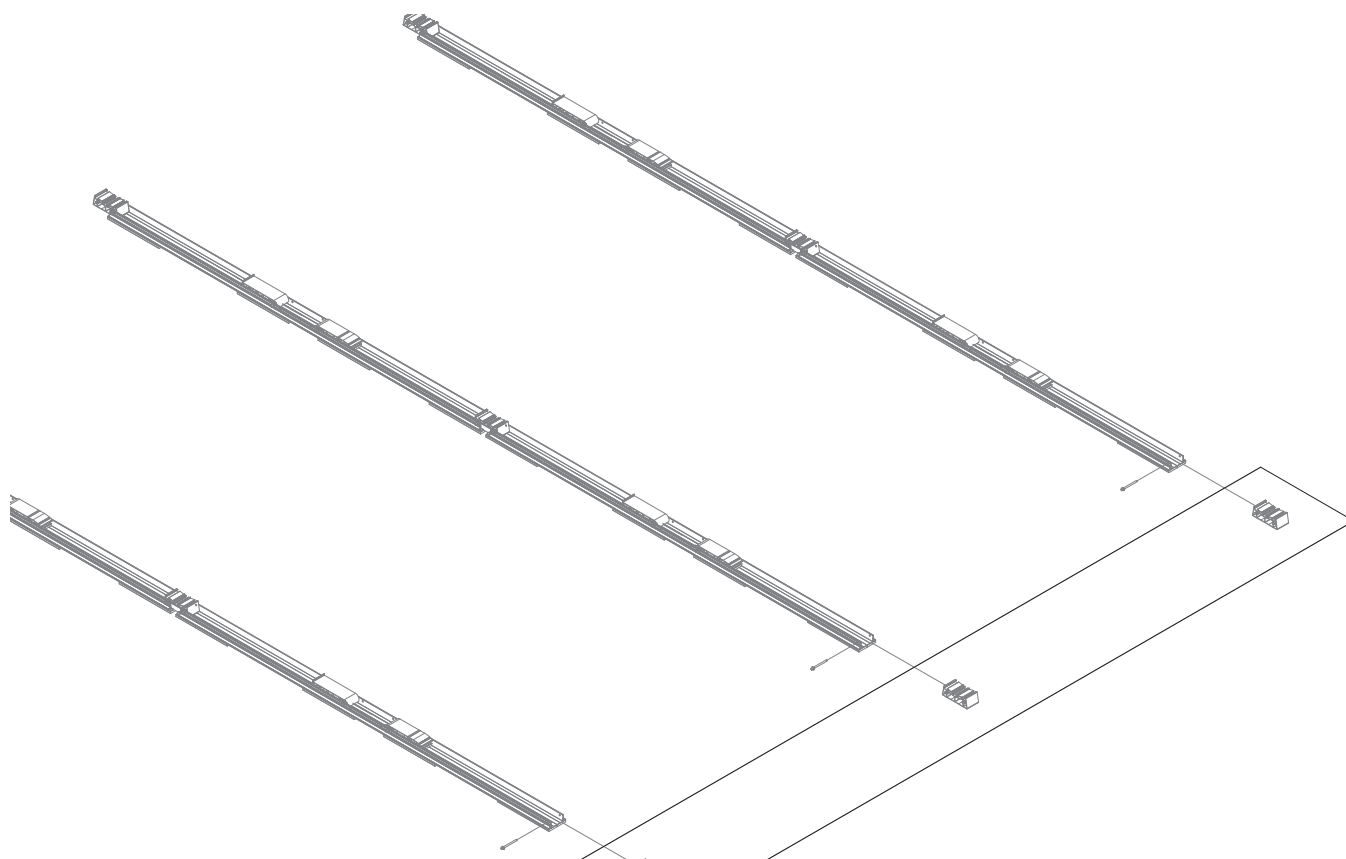
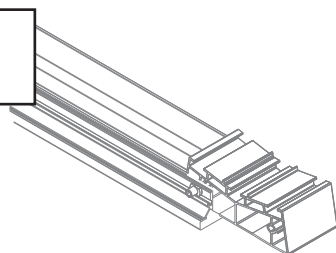
a.



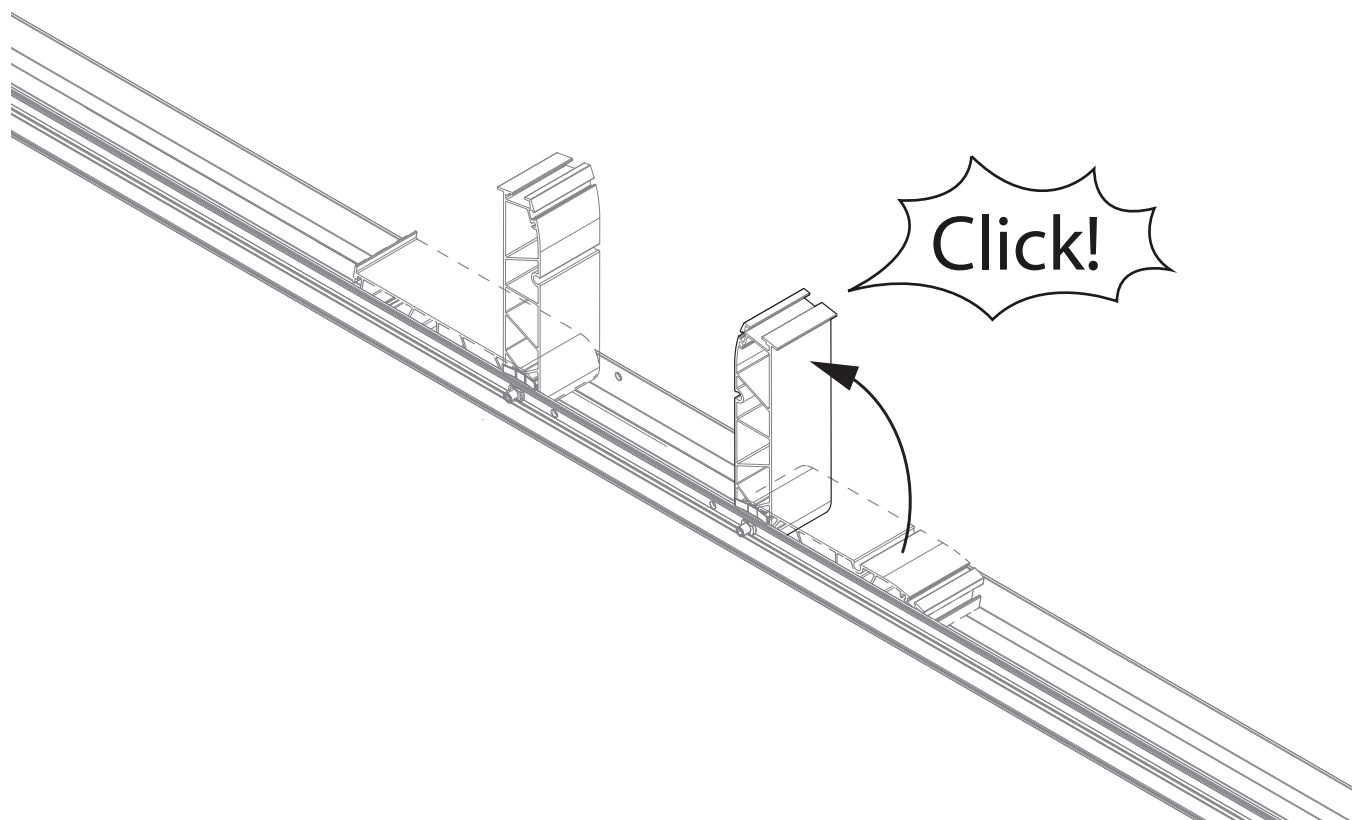
b.



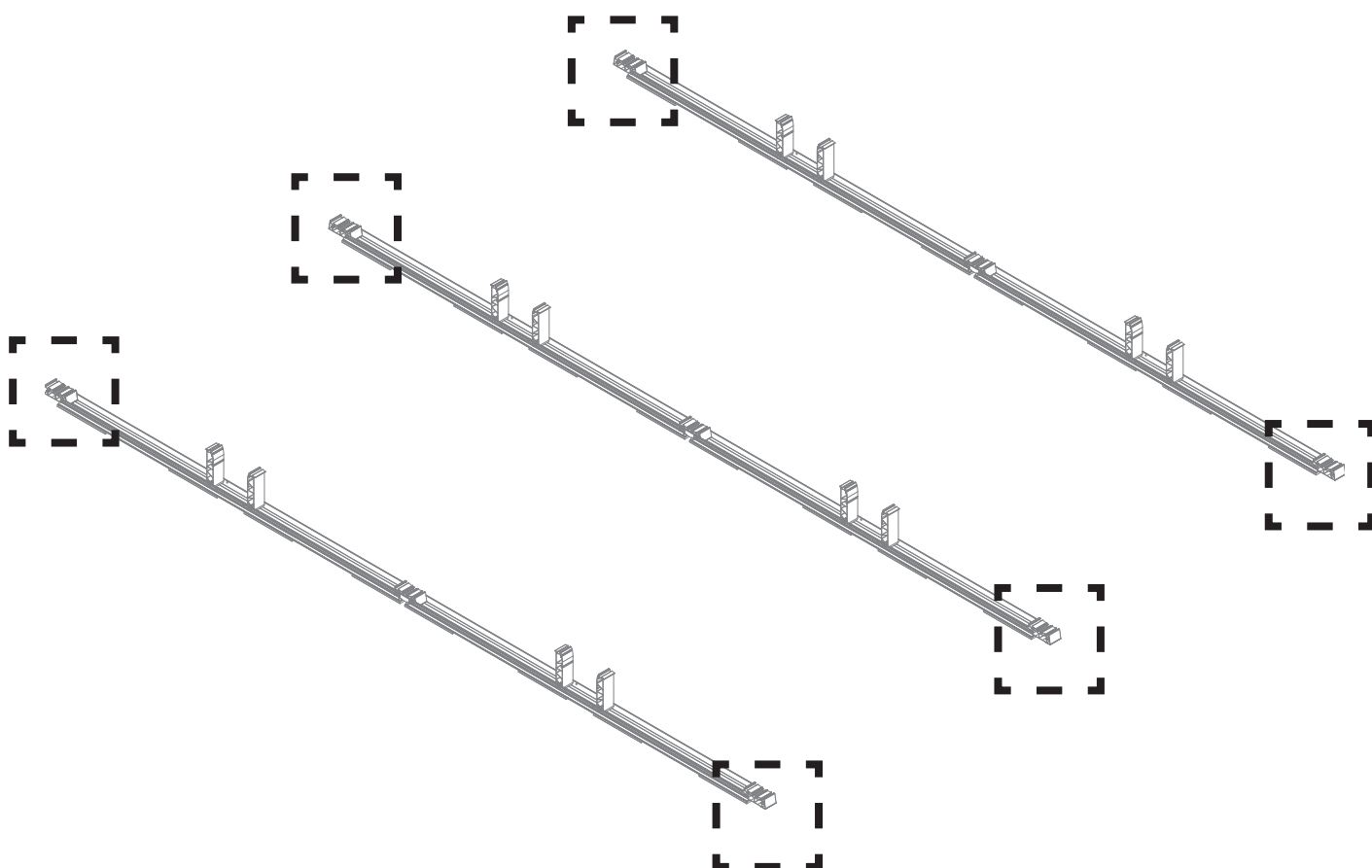
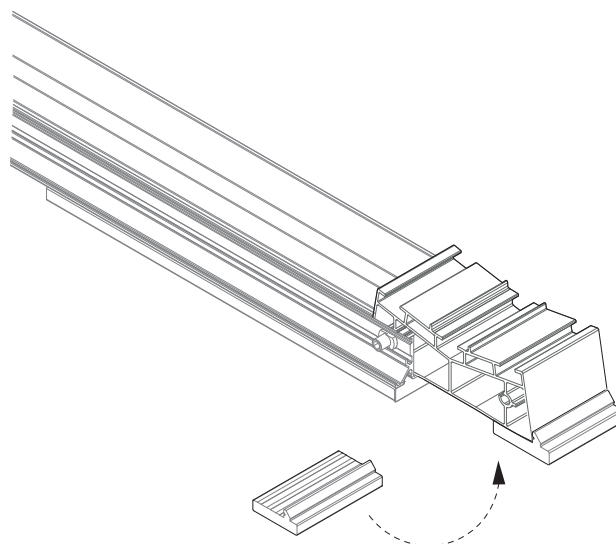
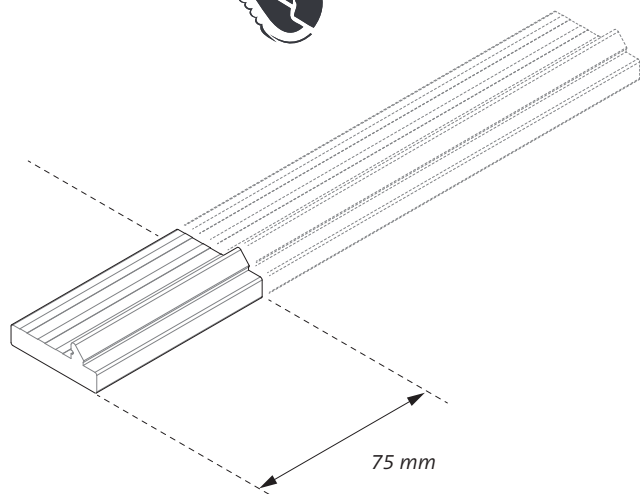
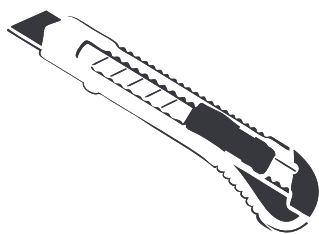
c.



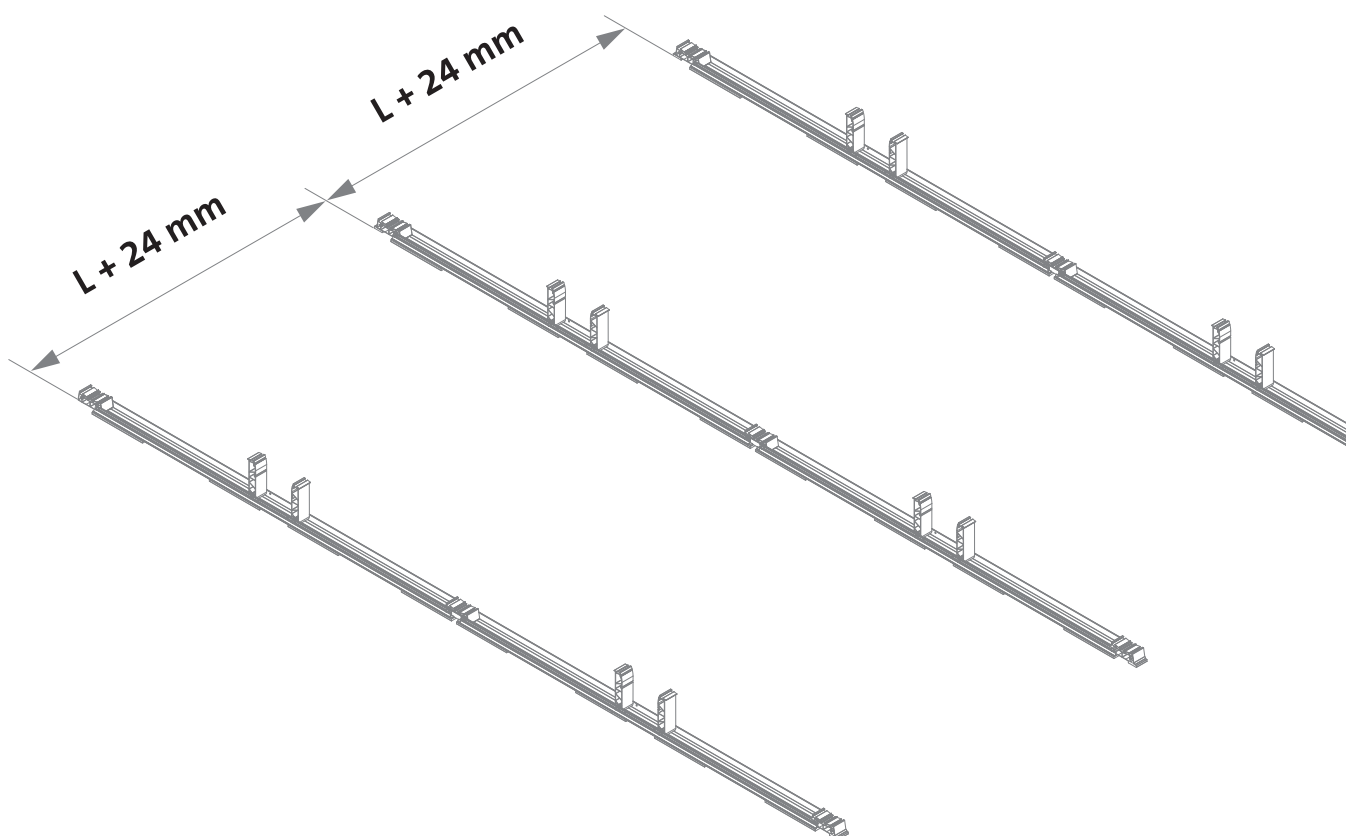
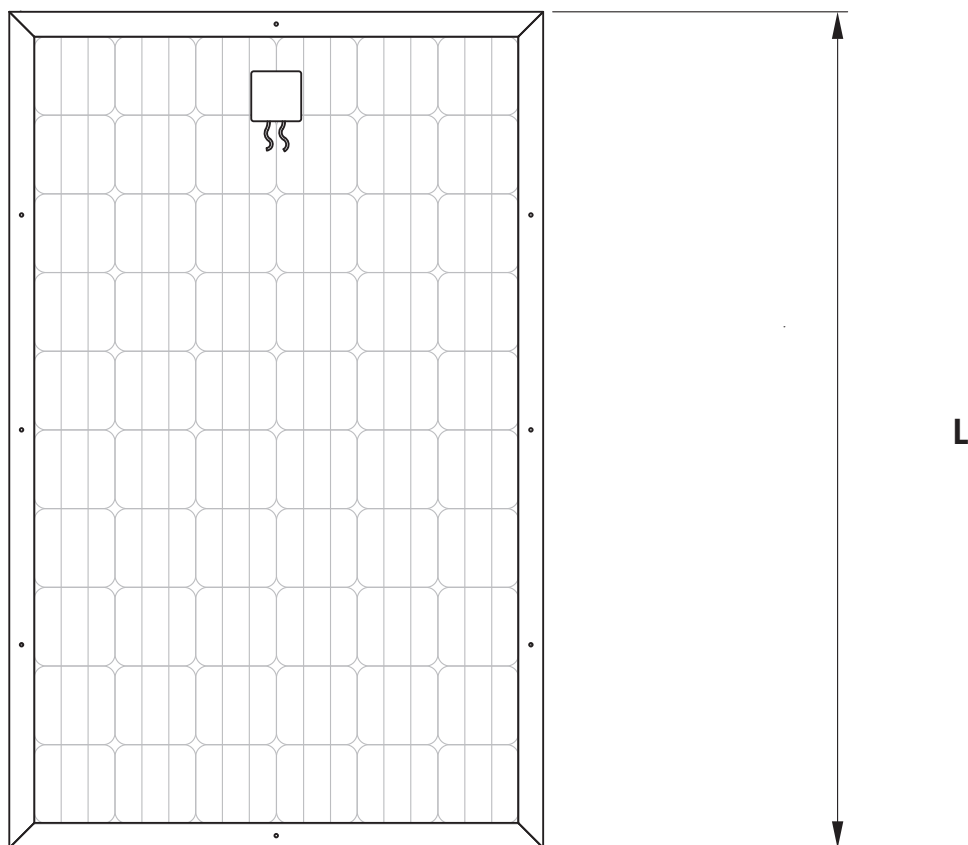
4.



5.



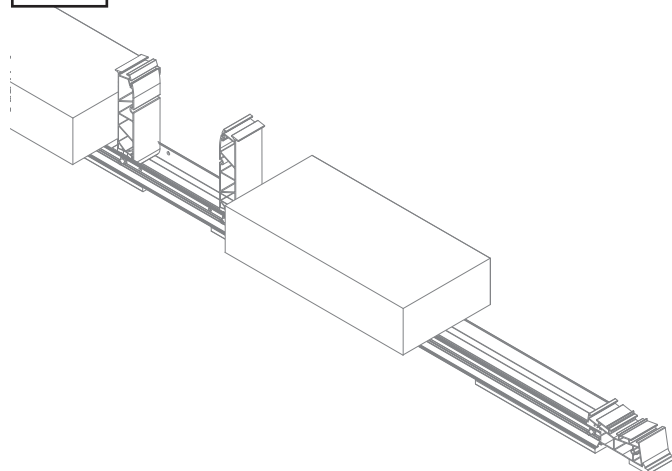
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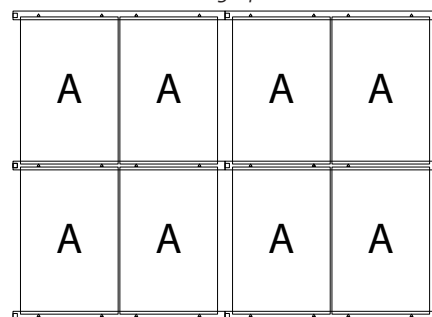
7.

Various ballasting options are possible (see project report)

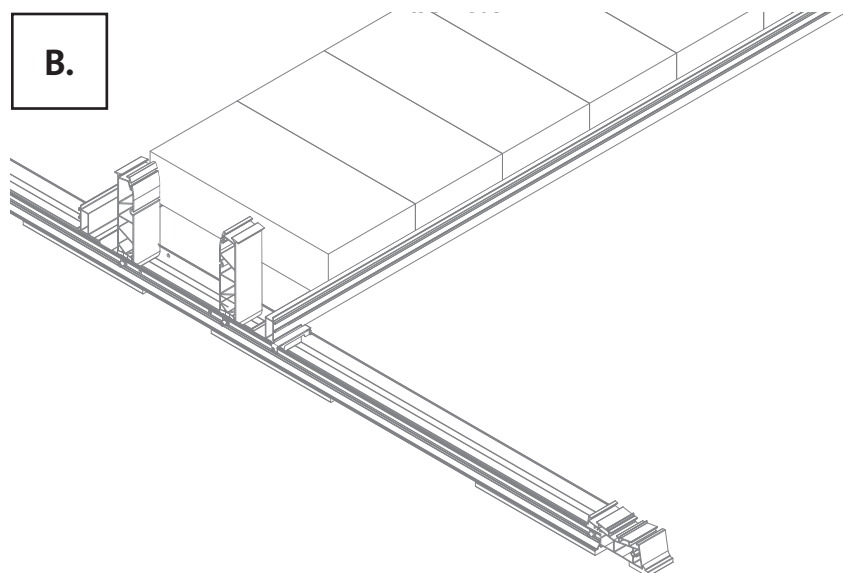
A.



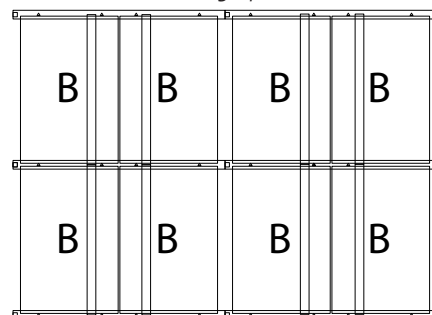
Ballasting Option A



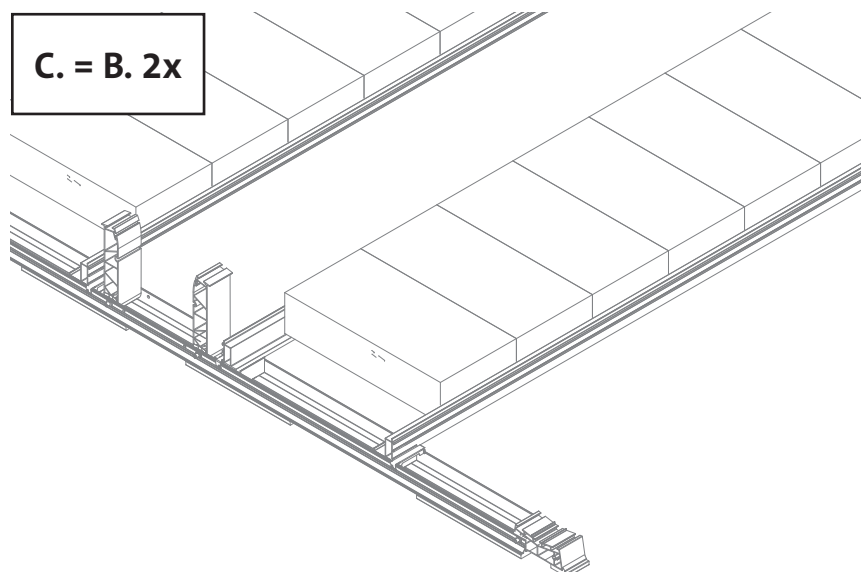
B.



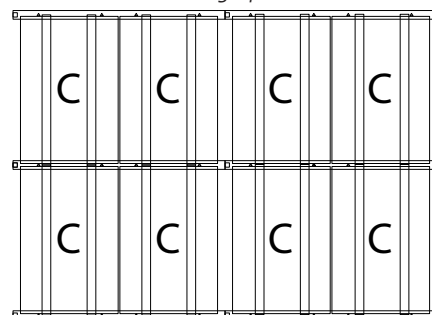
Ballasting Option B

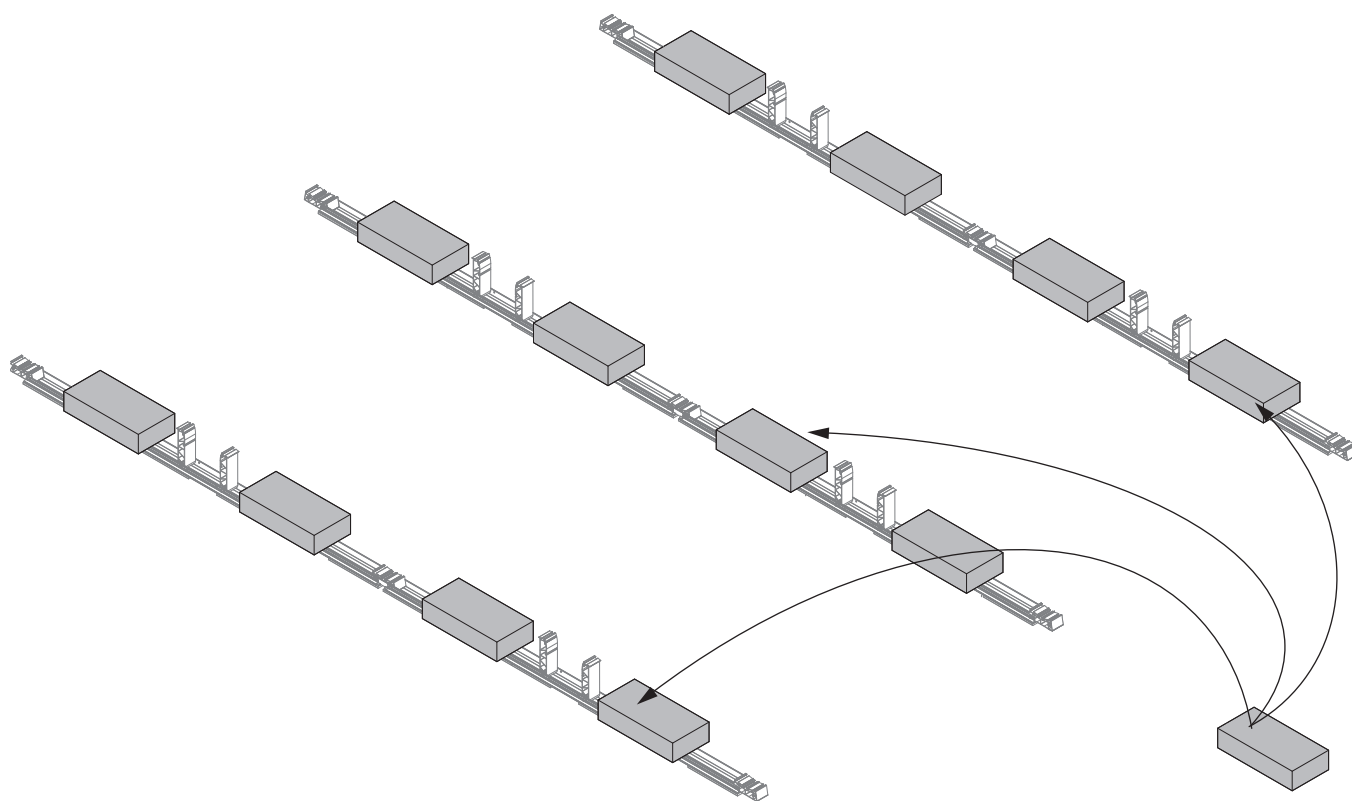


C. = B. 2x



Ballasting Option C

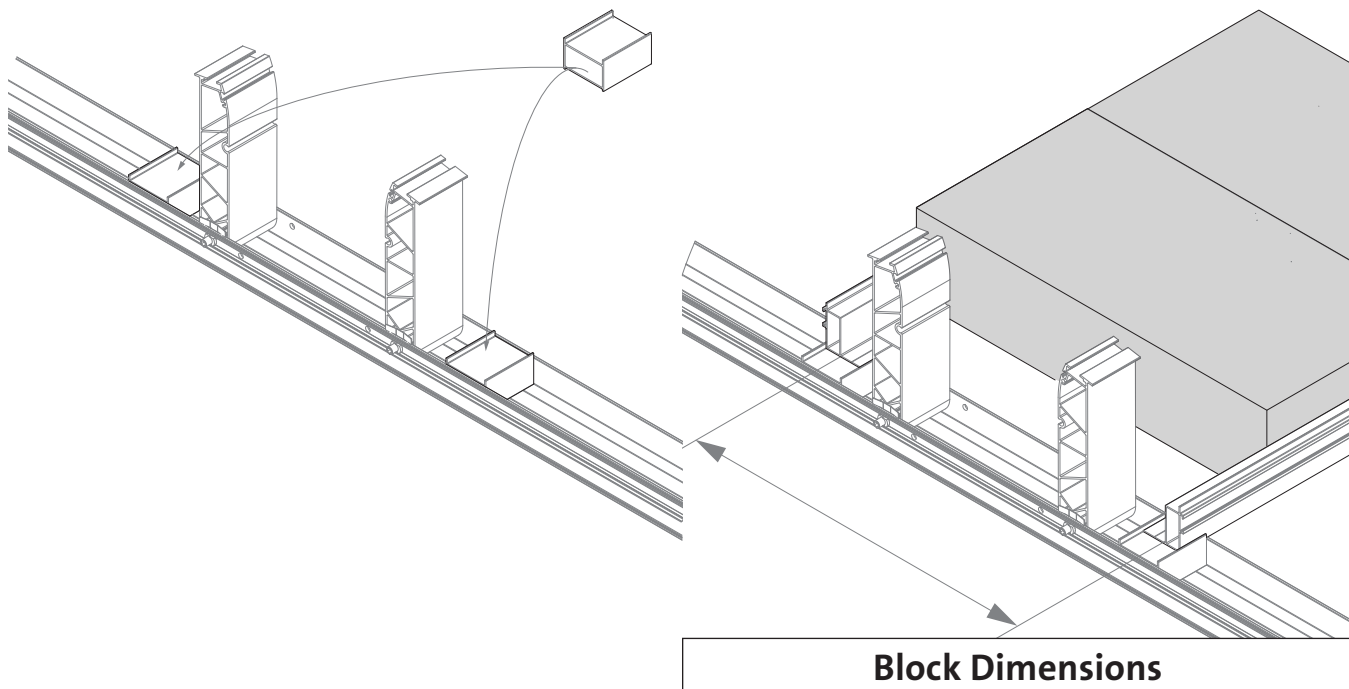




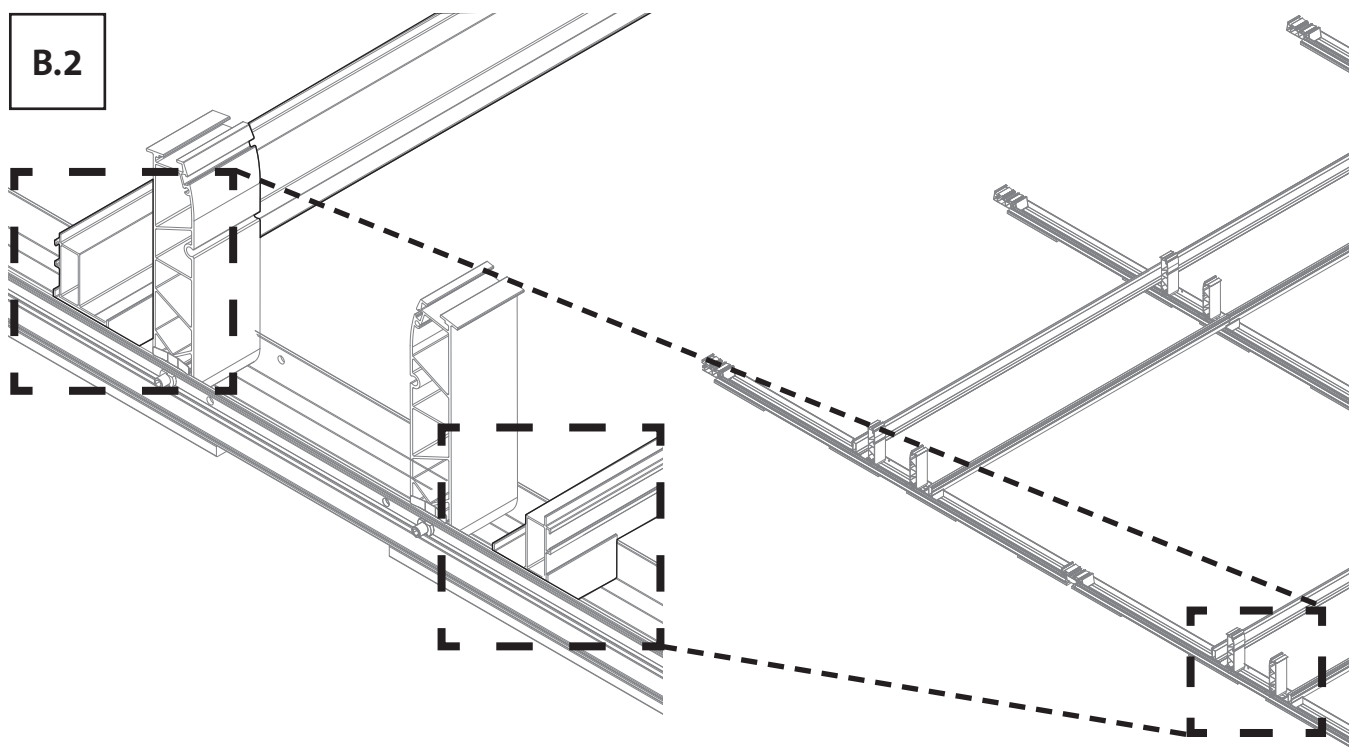
7.B

Ballasting Option B (see project report)

B.1



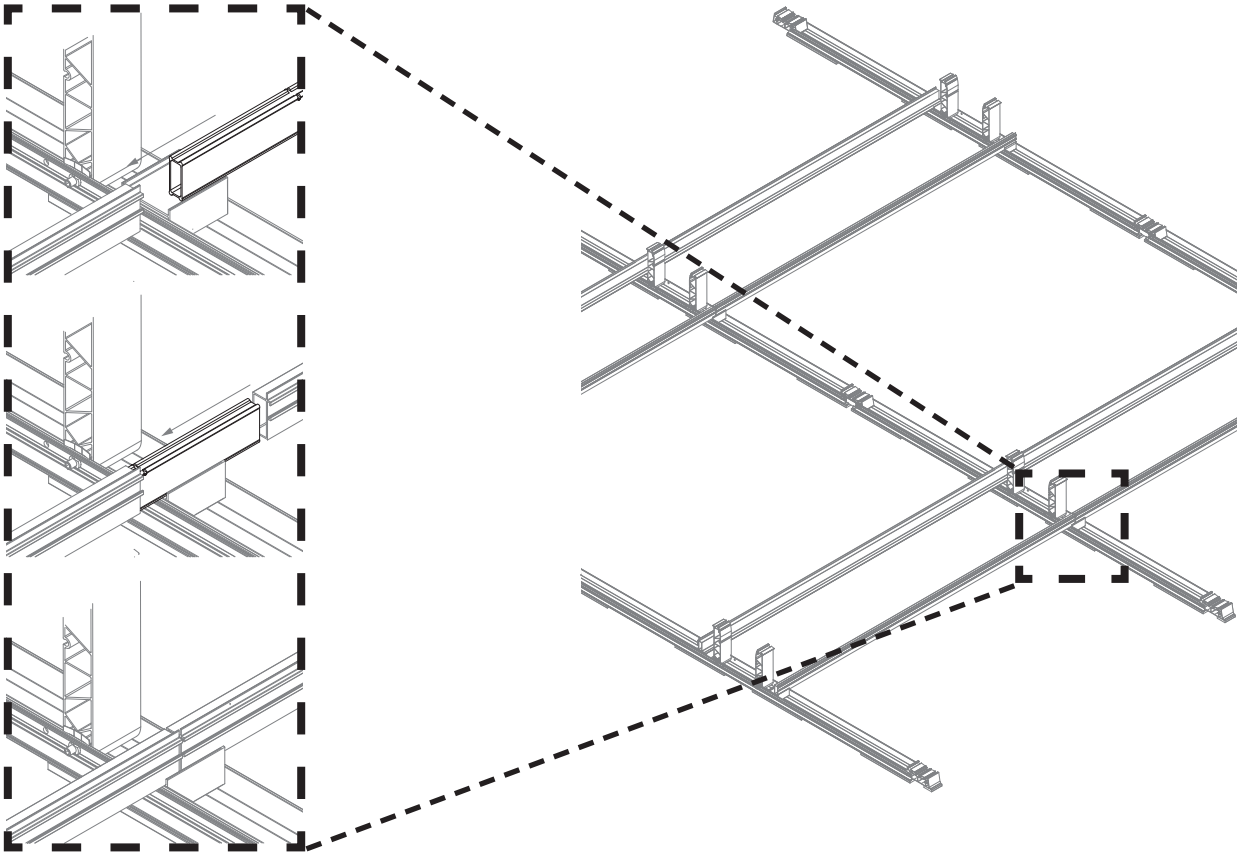
B.2



7.B

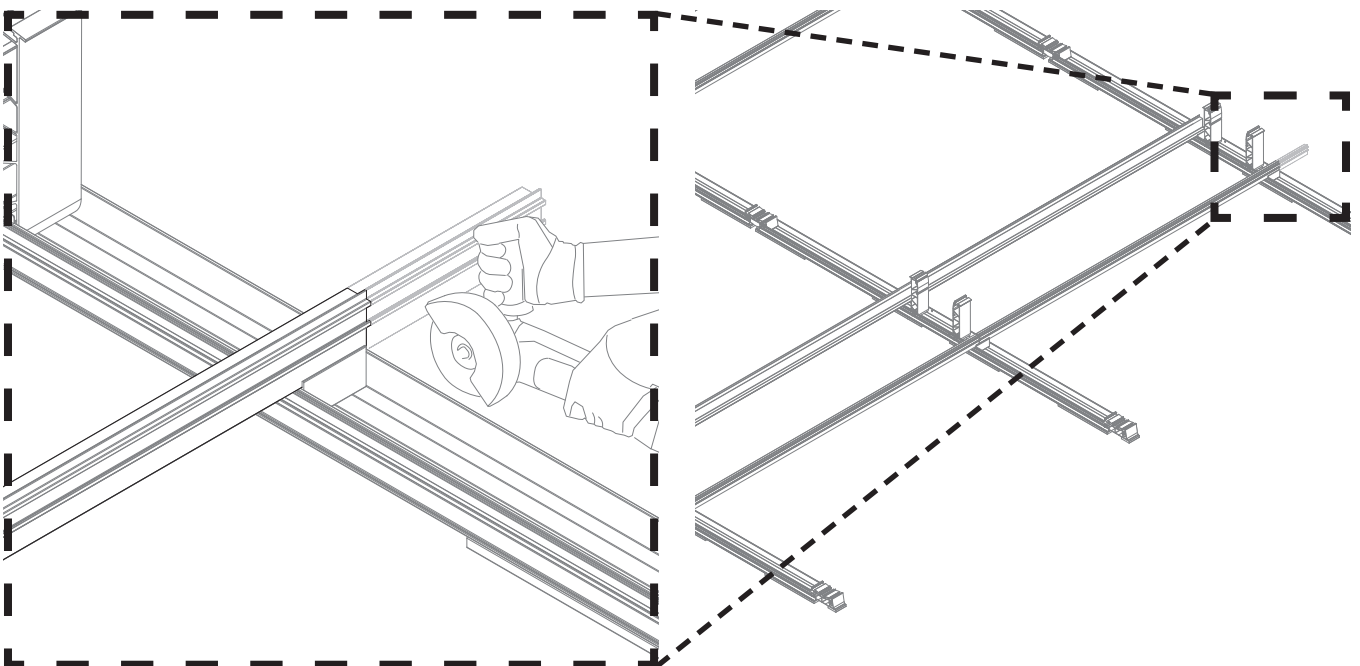
Ballasting Option B (see project report)

B.3



B.4

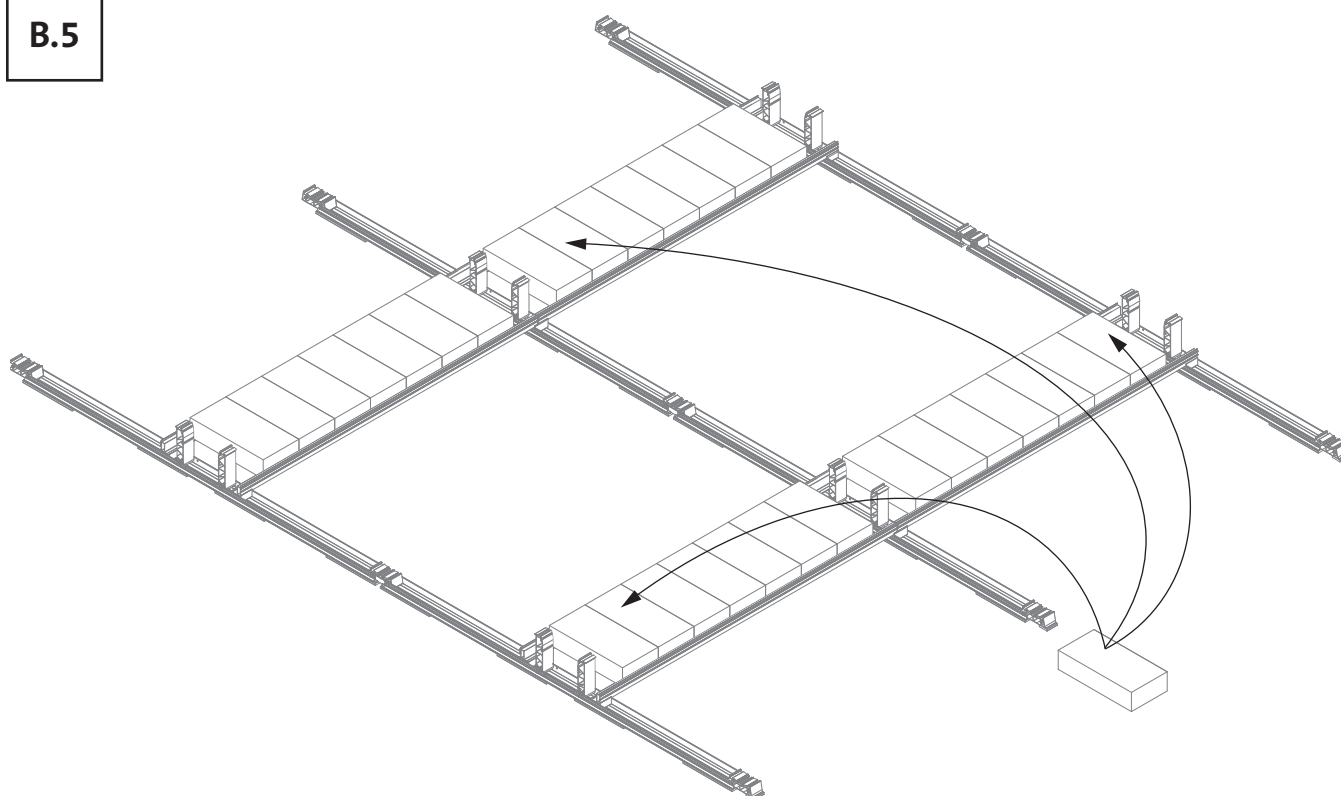
Please do not cut on the roof!



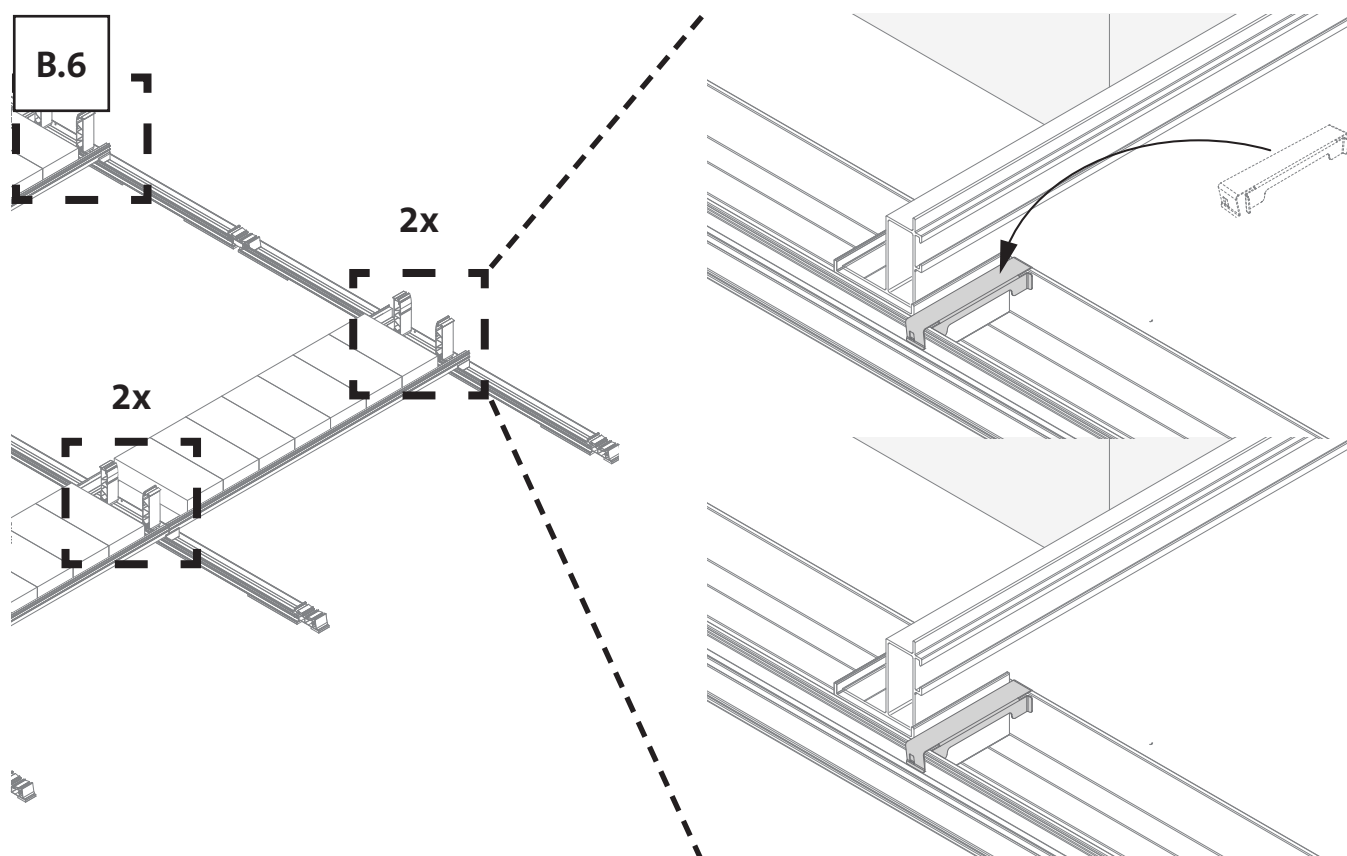
7.B

Ballasting Option B (see project report)

B.5

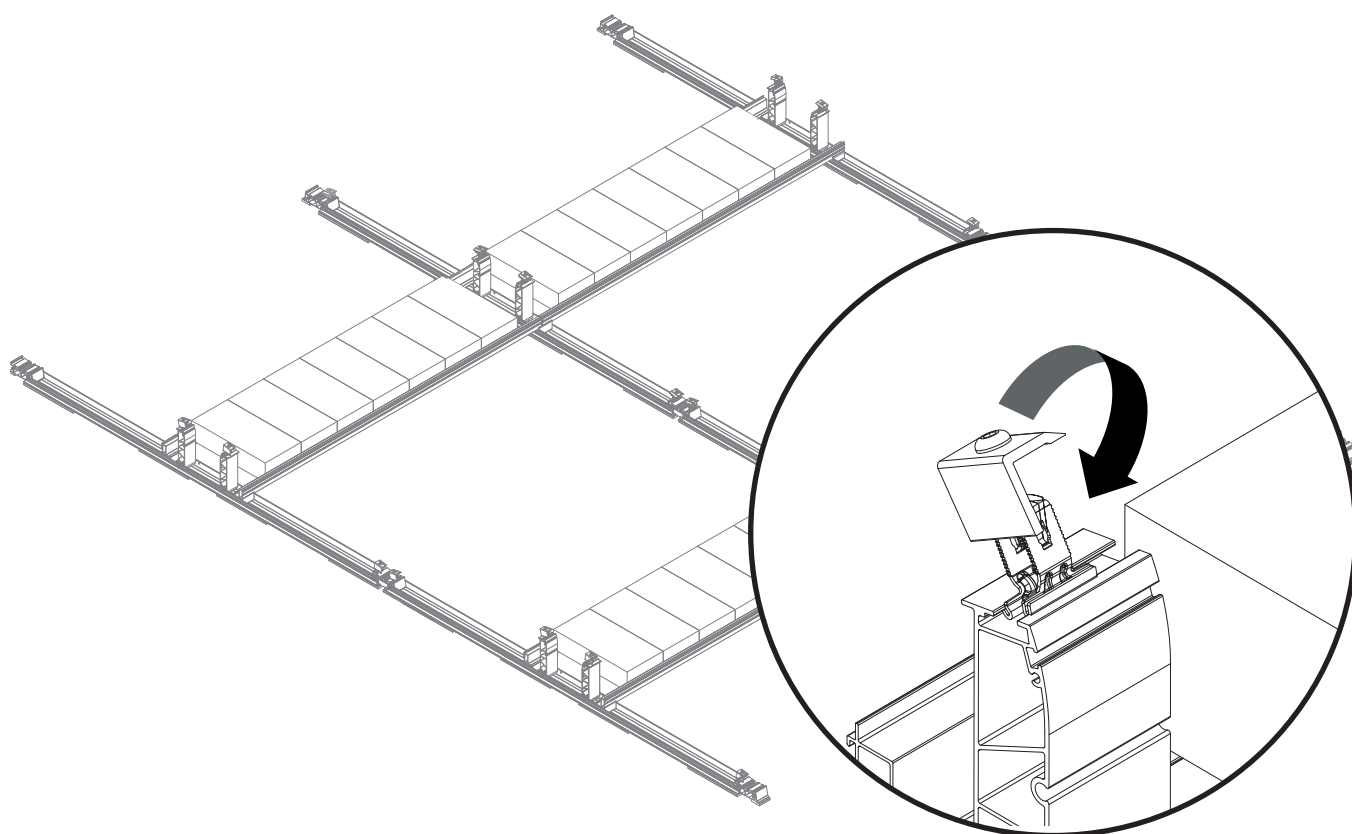


B.6

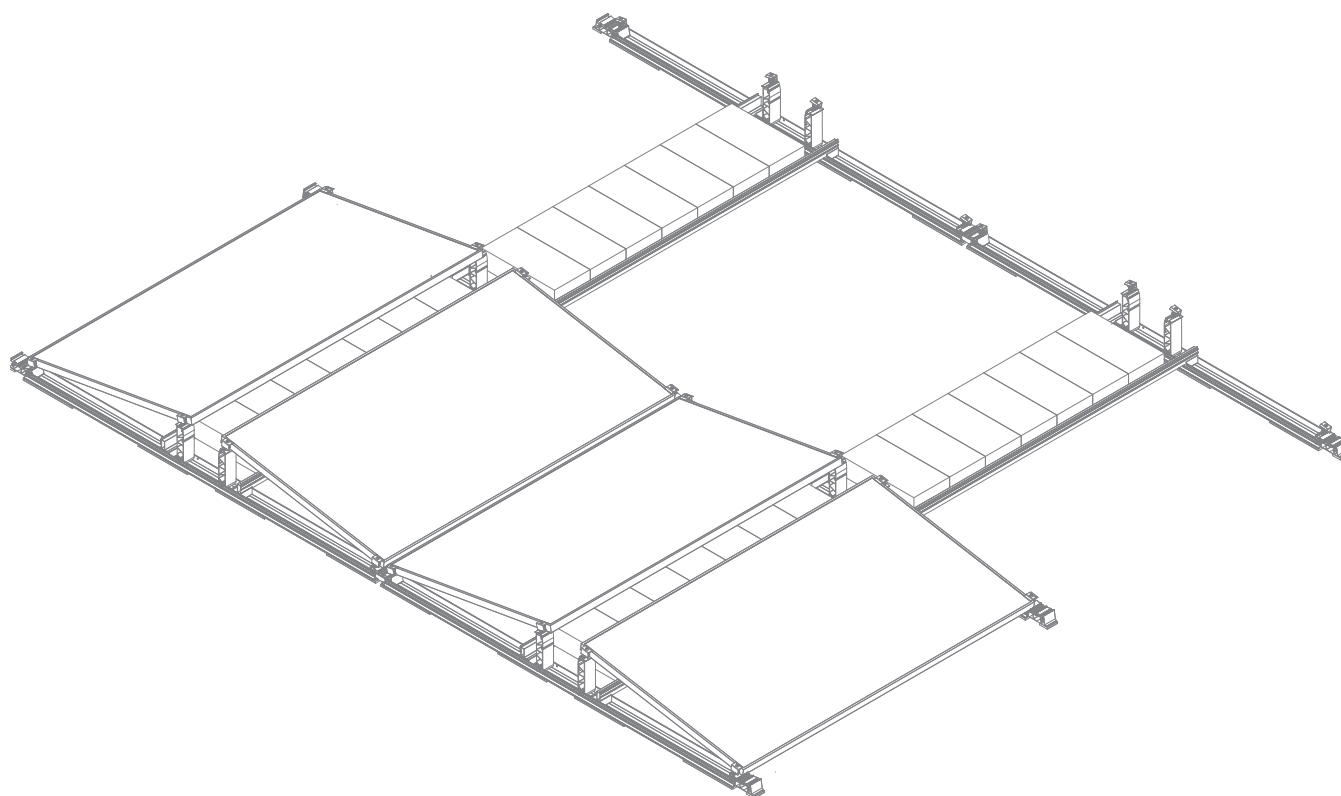


8.

Depending on the installation variant, the following graphics may vary slightly.

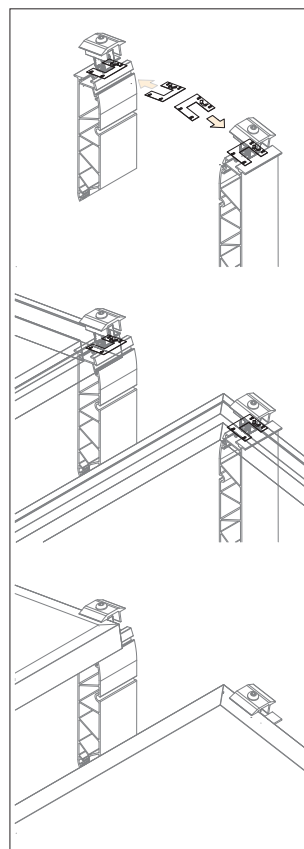
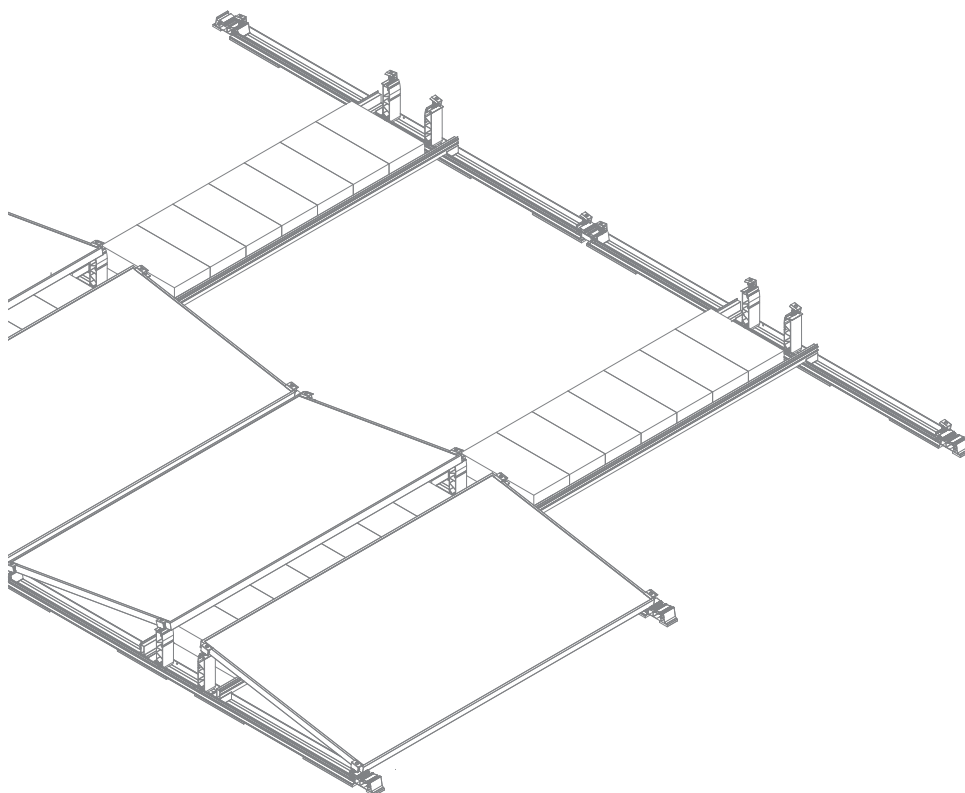


9.

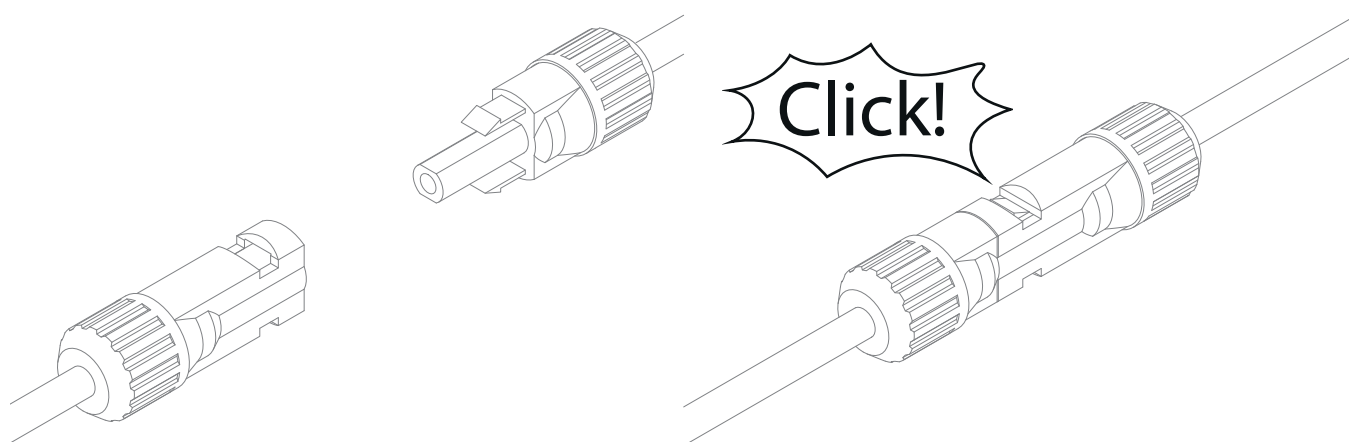


10.

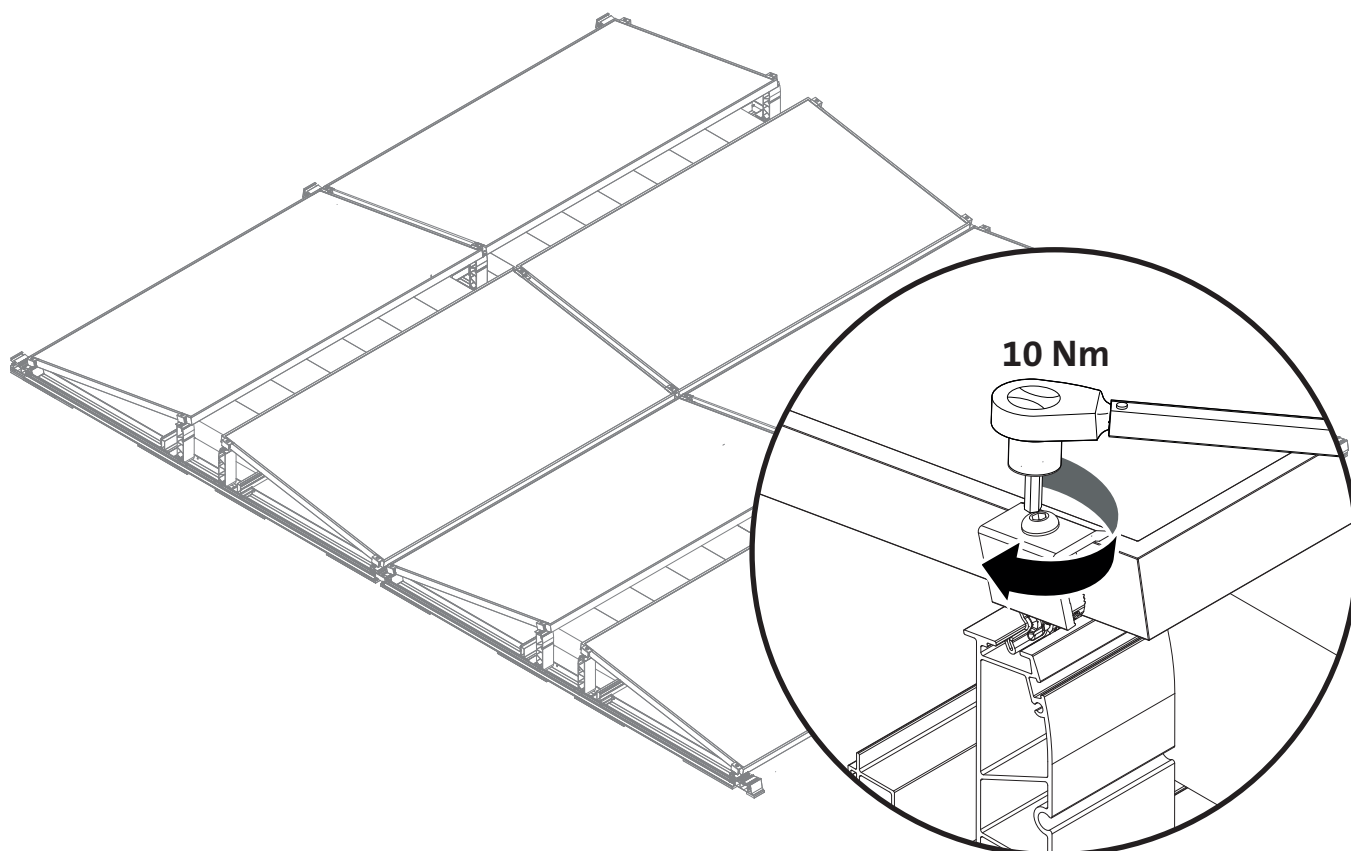
Potential equalisation (optional) - Article number R900268



11.

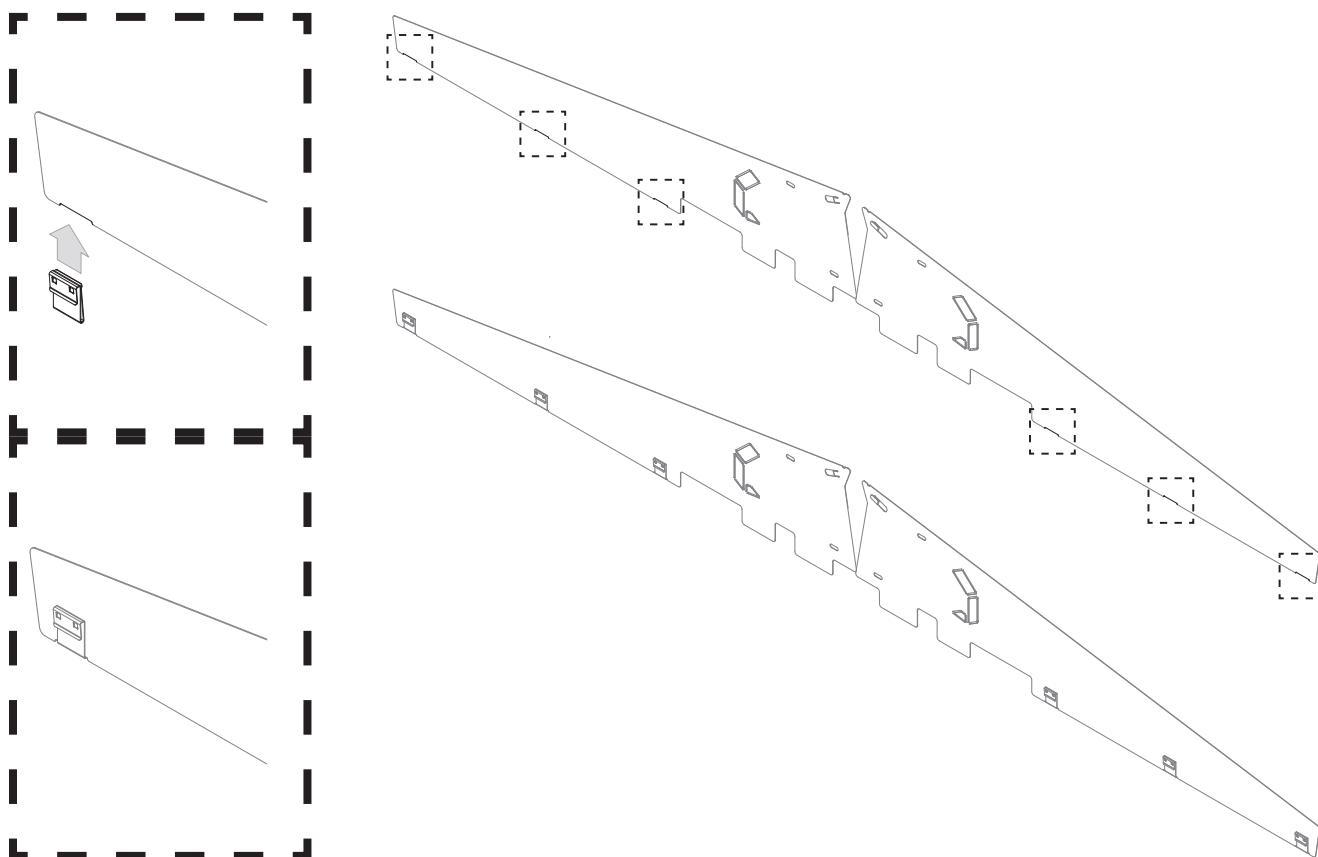


13.



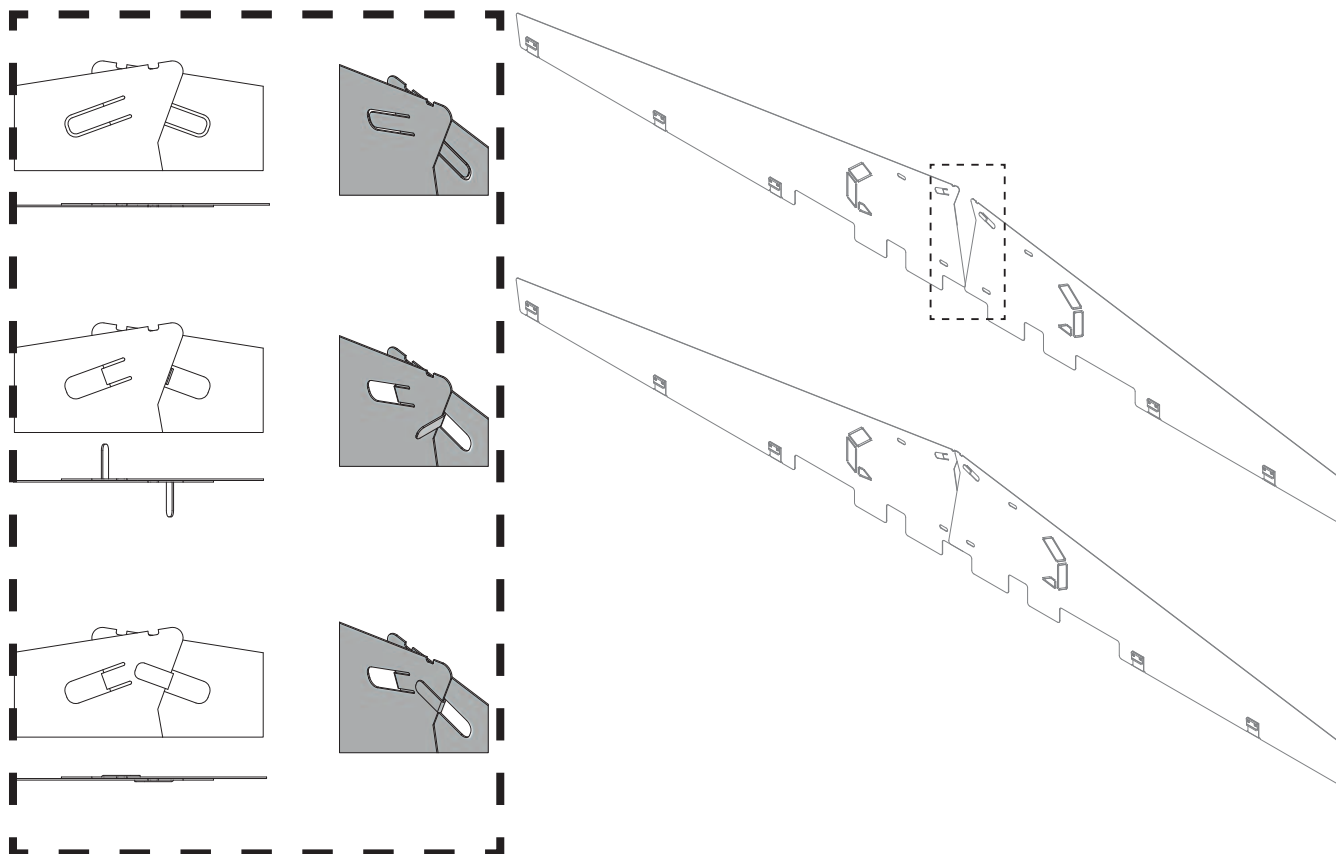
14.

Deflector (optional) - Article number R500265

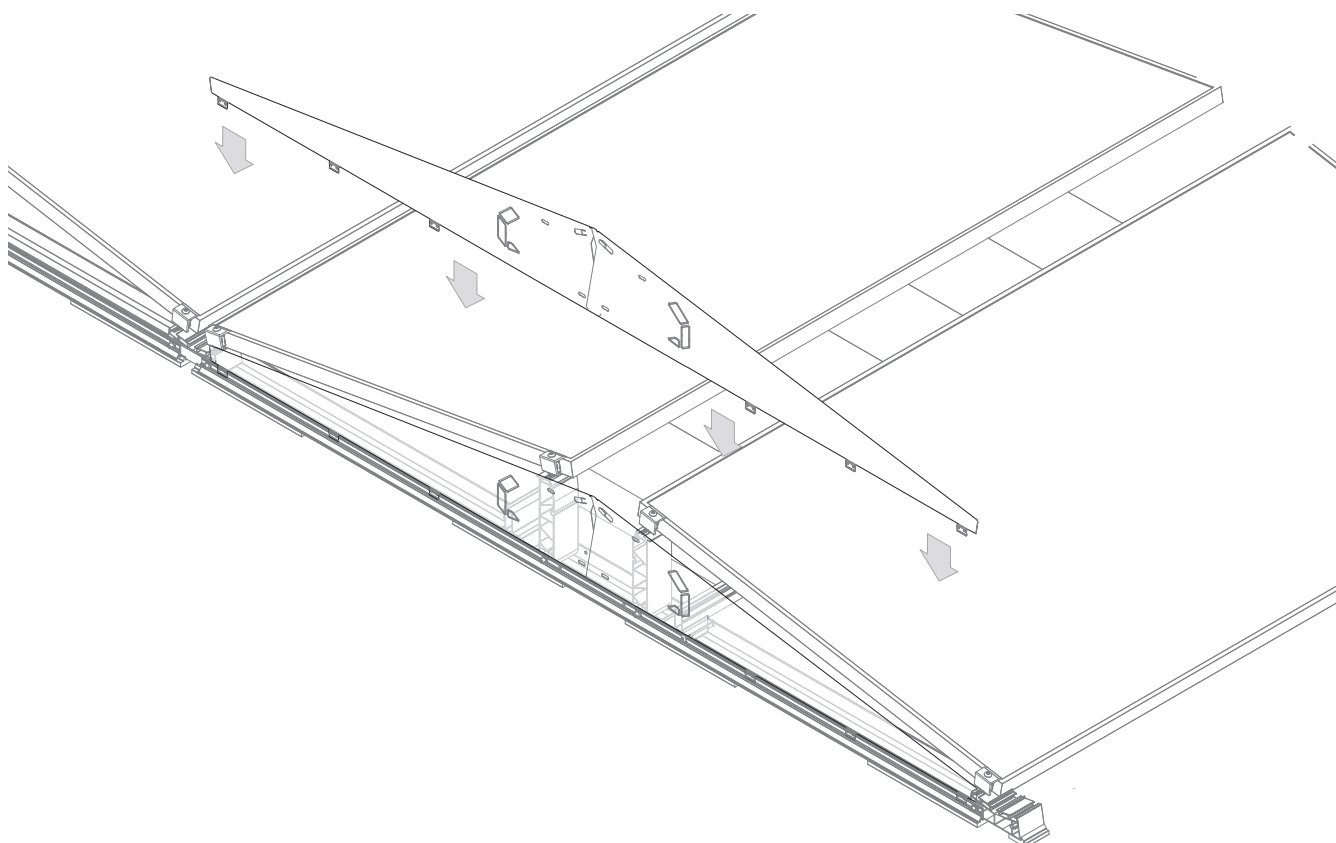


14.

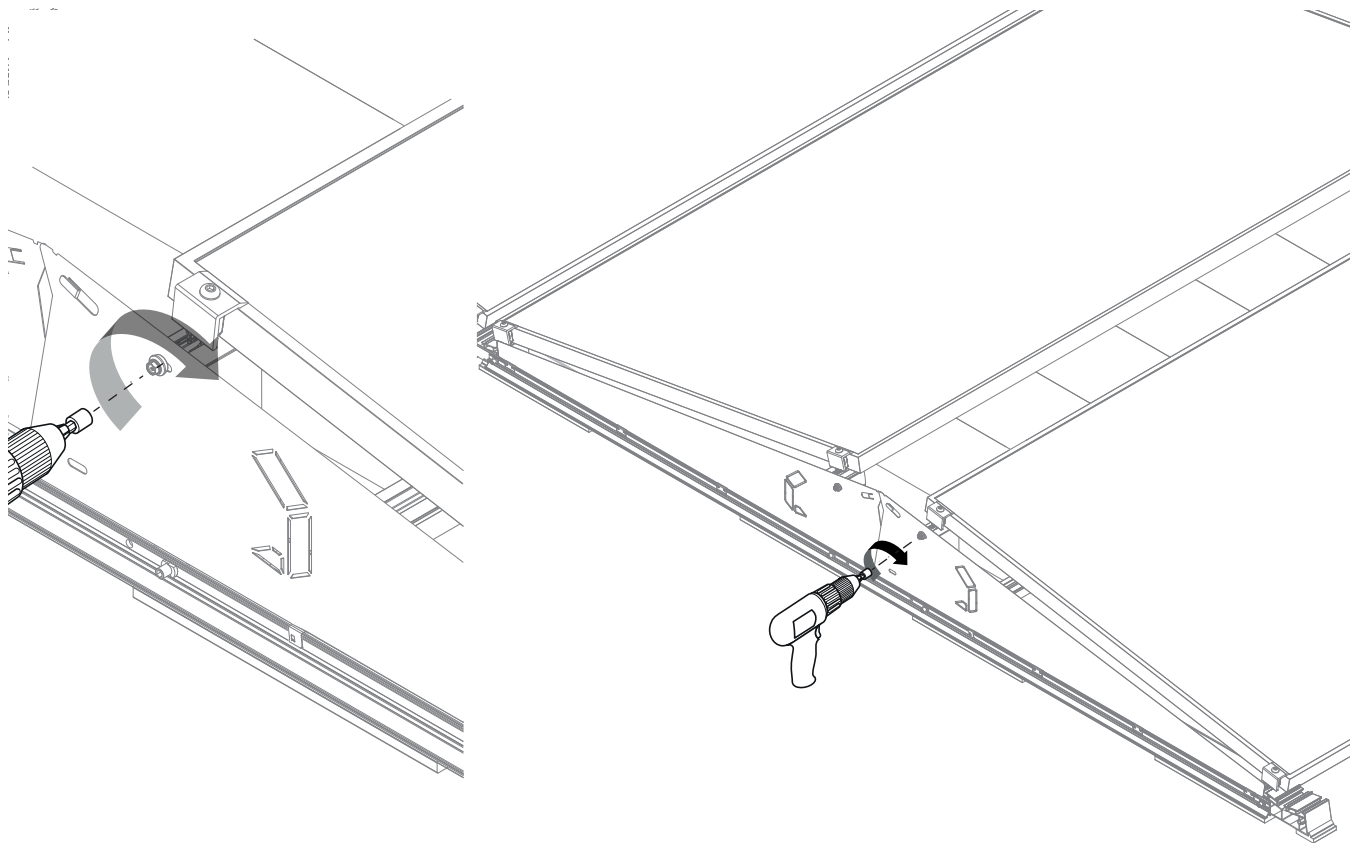
Deflector (optional) - Article number R500265 Only usable with base rail set R520222



14.



14.



- DE | Abbildungen und Texte entsprechen dem aktuellen technischen Stand bei Drucklegung, Änderungen vorbehalten.
- GB | The images and texts in these instructions relate to the latest technology at the time of printing, subject to modifications.
- FR | Les illustrations et textes sont conformes à l'état de la technique au moment de mise sous presse. Sous toutes réserves de modifications.
- IT | Figure e testi corrispondono allo stato più attuale della tecnica al momento dell'ordine di stampa. Con riserva di modifiche.
- ES | Las imágenes y los textos se corresponden al estado actual de la técnica en el momento de la impresión, reservado el derecho a las modificaciones.
- NL | Afbeeldingen en teksten voldoen aan de actuele stand van de techniek op het moment van ter perse gaan. Wijzigingen voorbehouden.
- DK | Afbildninger og tekster overholder den tekniske stand ved trykningen, der tages forbehold for ændringer.
- SE | Bilder och texter motsvarar den nuvarande tekniska tillstånd vid tidpunkten för tryckning, med förbehåll för ändringar.
- CZ | Vyobrazení a texty odpovídají aktuálnímu technickému stavu při odevzdání do tisku. Změny vyhrazeny.
- PL | Ilustracje i teksty odpowiadają stanowi techniki aktualnemu w chwili oddania instrukcji do druku. Zastrzega się prawo do zmian.
- LT | Spausdinami paveikslėliai ir tekstas atitinka naujausią technikos lygį. Pasilieka teisė į pakeitimus.
- HU | Az ábrák és a szövegek a nyomtatás időpontjában rendelkezésünkre álló legfrissebb műszaki ismereteknek felelnek meg; a módosítások jogát fenntartjuk.

Renusol Europe GmbH

Piccoloministr. 2

51063 Köln

Deutschland

Telefon: +49 221 788707-0

E-Mail: info@renusol.com

www.renusol.com