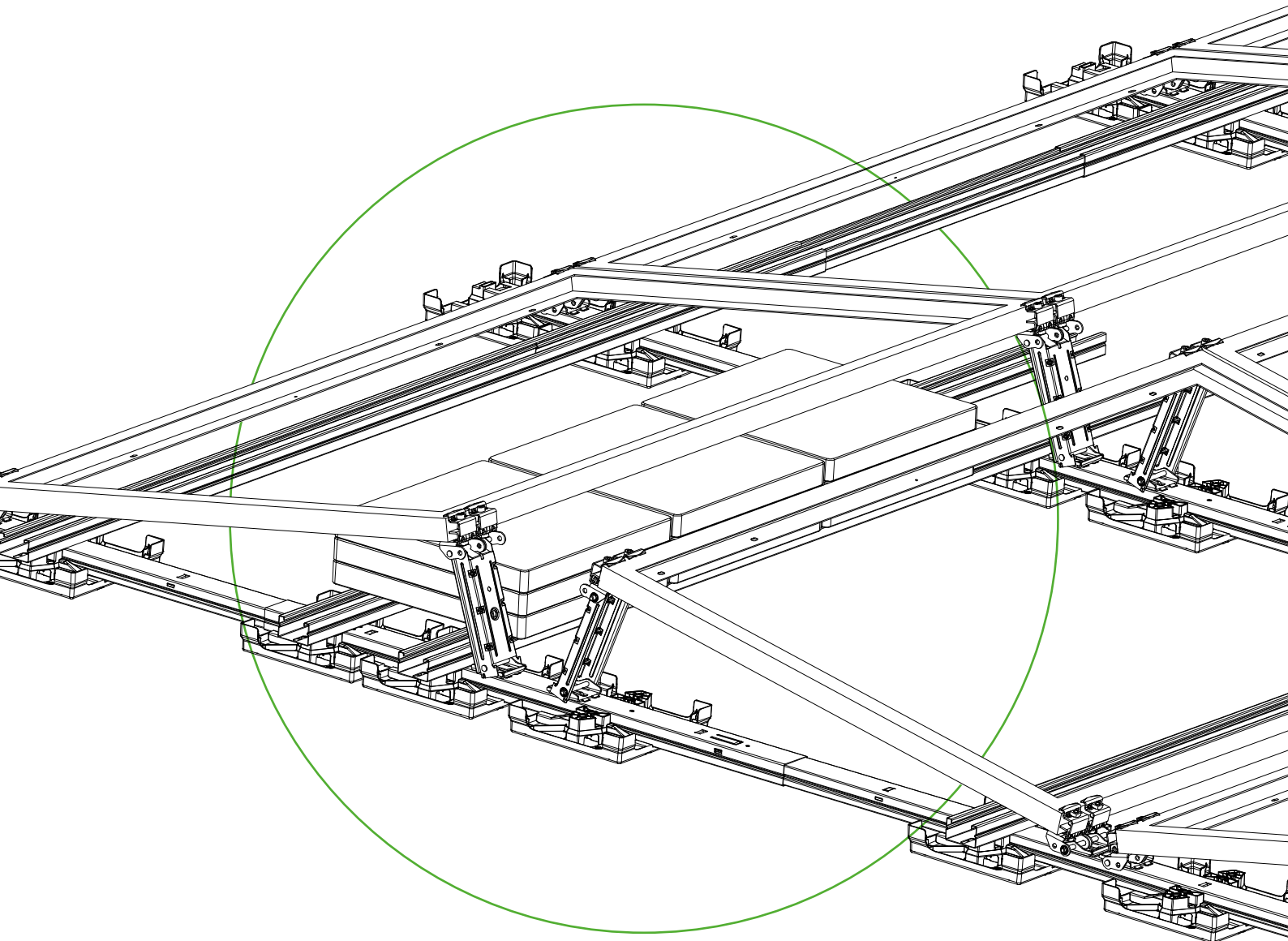


PMT X118

ASSEMBLY INSTRUCTIONS
EDGE CLAMPING



TO A FINISHED SYSTEM IN
JUST **SEVEN STEPS**

Contents

PMT X118 EDGE CLAMPING

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INTERACTIVE ASSEMBLY INSTRUCTIONS

Page selection by click

General Safety Instructions



Please note that our general safety instructions must be observed.

Assembly only by qualified personnel

PMT photovoltaic substructures may only be assembled and commissioned by qualified personnel. These persons must be able to ensure the proper and professional assembly of our products on the basis of their professional aptitude, which they have acquired, for example, through training or professional experience.

Before assembly starts:

1. Check the structural requirements of the roof and the building:

Before installing the PMT photovoltaic substructure, it is imperative that the customer checks whether the roof and building structure permits the safe installation and operation of the photovoltaic system. This must be checked on site by a qualified person, e.g. a structural engineer, before installation. The information in the project report is based only on planning assumptions, which do not necessarily have to correspond to the conditions on site. Static requirements must therefore be clarified on site and in advance of assembly. Before proceeding, ensure you have confirmation from a qualified person and do not begin assembly without such a document.

2. Compliance with building and accident prevention regulations:

National and local building regulations, standards and environmental protection regulations must be strictly observed.

Occupational safety and accident prevention regulations as well as the regulations of professional associations must be observed.

In particular, the following must be taken into account:

- It is necessary to wear safety clothing [esp. safety helmet, work shoes and gloves].
- For roof work, the regulations for work on the roof must be observed [e.g. use of fall protection, scaffolding with safety gear from an eaves height of 3 m etc.].
- The presence of two people is mandatory for the entire assembly process in order to be able to provide rapid assistance in the event of an accident.

3. Check installation instructions for updates:

PMT assembly systems are subject to continuous further development. Assembly procedures can change as a result. Therefore, be sure to check the assembly instructions for updates before assembly. They can be found at <https://pmt.solutions/downloads/>. On request, we will also be happy to send you the current version of the assembly instructions.

During the entire assembly time, it must be ensured that a copy of the assembly instructions is available to each installer.

4. The module manufacturer's assembly instructions must also be observed.

5. Equipotential bonding between the individual system components must be carried out in accordance with the respective country-specific regulations.

PMT assumes no liability for damages resulting from non-compliance with general safety instructions.

General System Notes

a. Basics of planning with PMT PLAN

What is PMT PLAN for?

PMT PLAN is used to plan the substructures distributed by PMT on roofs on the basis of data entered by the user and the planning assumptions based on this, which are stored in PMT PLAN.

Who can plan with PMT PLAN?

Requirement of expertise for planning with PMT PLAN

The proper and correct use of PMT PLAN requires expertise and experience not only in the field of substructures for solar power systems, but also in the construction industry with regard to the roofs on which the entire system is to be used by the end customer.

How does PMT PLAN make plans?

1. Data input by the user as the basis for planning

The starting point and basis for planning with PMT PLAN is always and exclusively the project data entered by the user. PMT does not check this data for correctness. Rather, the user is solely responsible for correct data collection and entry in PMT PLAN.

Attention: If the data is not collected and/or entered correctly by the user, this will have an impact on planning. Changes may lead, among other things, to deviating quantities of material and deviating static requirements. This may lead to personal injury as well as financial losses for which PMT assumes no liability.

2. Planning assumptions in PMT PLAN

PMT PLAN processes data entered by the user and uses certain planning assumptions in the process. These planning assumptions in turn result from technical regulations that underlie the calculations of PMT PLAN.

Which planning assumptions underlie the concrete planning can be taken from the project report?

PMT PLAN takes into account the Eurocodes, i.e. the European-wide uniform rules for measurement in the construction industry, including national annexes, as well as national building regulations.

PMT endeavours to ensure the up-to-dateness of the Eurocodes taken into account by means of updates. However, we would like to point out that after the publication of new rules, a certain period of time is always required to implement them in the software, which is why there is no entitlement to appropriate updates and the user is always responsible for observing the latest state of the rules on which the program is based.

The rules are applied on the basis of the specified location. It is the responsibility of the user to check planning assumptions for their correctness.

Attention: If planning assumptions are not checked by the user for correctness, this has an impact on the planning. Changes may lead, among other things, to deviating quantities of material and deviating static requirements. This may lead to personal injury as well as financial losses for which PMT assumes no liability.

3. What is the purpose of the project report?

What does “What’s important is what’s on the roof” mean?

PMT PLAN creates a project report based on the user’s input. However, this planning report cannot and should not replace the expert planning based on actual conditions on site.

With the project report, the planning of your project is therefore not completed, but only begins.

The only appropriate professional approach is the following, which is the sole responsibility of the user:

First step: Before ordering the photovoltaic substructures and even more so before assembling them on the roof, the user must check the correctness and plausibility of the data, planning assumptions and results in the project report.

Second step: ("What's important is what's on the roof!") It is imperative that the user verifies the project report also on the basis of the actual conditions on the roof. In our experience, project-specific features must be taken into account for each roof, which usually only arise on the roof on site.

If the user does not have the necessary expertise to review the project report, they must consult an expert for this purpose.

If changes arise from these mandatory audit steps compared to the project report, a new planning must be carried out with the changed data in PMT PLAN.

Attention: If the data is not and/or not correctly verified by the user based on the actual circumstances, this has an impact on the planning. Changes may lead, among other things, to deviating quantities of material and deviating static requirements. This may lead to personal injury as well as financial losses for which PMT assumes no liability.

4. In addition, which other technical requirements must always be observed by the customer and checked independently?

a. Technical requirements for the roof and its components

PMT PLAN assumes that the roof and its components are suitable for the installation of a photovoltaic system and that the customer has had this verified by an expert prior to planning.

PMT PLAN does not guarantee the compatibility of the PMT photovoltaic substructure with the roof in terms of roof covering, roof substructure and roof construction. Rather, this is to be checked by the user themselves.

Before assembly, the user must ensure that the functional layers of the roof structure (e.g. waterproofing layer, thermal insulation layer) are suitable and designed for the assembly of solar power systems. In particular, it must be ensured by the user that the suitability for use of the thermal insulation layer continues to exist despite the additional loads which arise as a result of the assembly of the solar power system (substructure and solar modules).

Tip: To do this, obtain the approval of the manufacturer of the individual components and verify the manufacturer's specifications with the conditions on site on the roof.

The user must check the suitability, load-bearing capacity and serviceability of the entire roof structure for the assembly of the solar power system as a whole.

A structural engineer must be consulted to check the loadbearing capacity. PMT-PLAN does not replace this check under any circumstances.

Attention: If the user does not check the compatibility of the photovoltaic substructure with the roof and/or does not check it properly, this will have an impact on the planning. Changes may lead, among other things, to deviating quantities of material and deviating static requirements. This may lead to personal injury as well as financial losses for which PMT assumes no liability.

b. Static requirements

PMT PLAN does not take into account the static requirements of the building on the roof of which the solar power system is to be built.

Building and roof statics must therefore be professionally checked by the user before assembly on his own responsibility.

A structural engineer must be consulted for this purpose. PMT-PLAN does not replace this check under any circumstances.

Attention: If the building statics are not checked or not checked correctly by the user, this has an impact on the planning. Changes can lead, among other things, to deviating quantities of material and deviating static requirements. This may lead to personal injury as well as financial losses for which PMT assumes no liability.

c. Photovoltaic modules

PMT-PLAN enables planning with a variety of photovoltaic modules. However, due to the large number of photovoltaic modules available on the market, not all modules are stored in the database. Missing modules are added to the database on a separate request based on the module manufacturer's data sheet.

PMT does not guarantee that the module data is up to date. In particular, dimensions and weight parameters must be verified by the customer before planning.

PMT-PLAN only takes into account the dimensions and weight of the modules. Other parameters are not taken into account.

Therefore, please check the compatibility of the module with the substructure before assembly on the basis of the assembly guidelines of the module manufacturer.

PMT-PLAN requires that the module may also be used in the mounting form clamping on the short module sides. Therefore, please check whether the clamping points of the module comply with the manufacturer's specifications before assembly. If the connection points do not correspond to the specifications of the module manufacturer, it is recommended that the module manufacturer be contacted in order to obtain approval of the planning.

This approval can either be generally available as part of the module certification or possibly also be granted by the module manufacturer on a project-specific basis.

Attention: If the compatibility of the substructure with the solar modules is not clarified by the user, this can lead to financial losses for which PMT assumes no liability.

d. Securing the solar power system against shifts due to thermal expansion (so-called "caterpillar effect")

The solar power system is exposed to constant temperature fluctuations on the roof. As a result, very slow migration effects of the substructure on the roof waterproofing can occur over the course of the service life of the solar power system, even with a very flat roof inclination. This process is also referred to as "temperature migration" or more vividly as the "caterpillar effect".

The gradual displacement of the solar power system on the roof can lead to damage to the cabling, the roof covering (such as, for example, foil, bitumen, gravel, substrate, etc.) of the further functional layers and any rising components present (such as, for example, skylights, aeration and ventilation systems, drainage systems, chimneys etc.). In the worst case, the solar power system can gradually move beyond the roof edge over time.

In order to prevent this damage, we have decided to give a general recommendation for a connection from 1.0° roof pitch.

This follows from a recommendation of the German Solar Industry Association (Bundesverband Solarwirtschaft e. V. – BSW-Solar), titled: "Position Securing Due to Thermal Expansions ("Temperature Migration")".

Suitable measures for securing the solar power system against displacements due to thermal expansion are, for example, the coupling of module fields via the roof ridge or selective fastening of the system to the roof structure.

The connection to the roof must only be made from a gradient of about 2% (roof inclination about 1.15°), provided that the following requirements are met:

- The **PMT checklist** must be completed in full and has been taken into account in the planning.
- Compliance with the following **maintenance routine** by PMT's customer:

Maintenance interval	Shift	Measure
Annual maintenance	No shift	No need for action
Annual maintenance	up to approx. 2 cm	Inspect the situation with special attention during the next maintenance
Annual maintenance	2-3 cm	Intermediate inspection after approx. 6 months
Intermediate inspection (6 months)	further shift of 1.5 cm or more	subsequent mechanical connection

Attention: Failure to secure the solar power system against displacement due to thermal expansion may lead to personal injury as well as property and financial losses for which PMT assumes no liability.

Assembly Instructions and Maintenance

Assembly instructions

Assembly should not begin until the construction manager's written instructions have been received.

The components of PMT's installation system are used exclusively for fastening PV modules. Depending on the type of roof on the building and the characteristics of the roof, the components intended for this purpose should be used. The exact item details can be found in the project documents, consisting of the project report and the CAD plan.

When using the assembly system, it is essential to observe the assembly instructions, safety instructions and system instructions.

In the event of improper use of the components, noncompliance with the notes and the use of components not belonging to the system, all warranty, guarantee and liability claims against PMT are void. The user is liable for damage and consequential damage to other components, PV modules or the building, as well as for personal injury.

Before starting the assembly, the compatibility between the roof skin and the assembly system must be tested and ensured and the roof checked for damage of any kind. These must be recorded in the **Roof Inspection Protocol**. Repair work may be necessary.

In the case of very uneven roofs or roof seals, compensation measures must be taken if necessary to ensure uniform load introduction. In order to ensure a flat support of the main bottom profiles on the roof skin, the roof surface must be cleaned before construction begins and impurities, such as moss, leaves, dirt, stones, etc. removed.

The necessary distances to the roof edges specified in the project documents must be observed. The maximum module field size depends on the type of roof. In the case of roofs with substrate or gravel fill, it must be ensured that a sufficiently non-slip connection is made.

The surface load must not exceed the residual load-bearing capacity of the building. It must be ensured that the runoff of rainwater is not hindered. Roof drainage must be included in the assembly planning.

It must be checked whether lightning protection provisions have to be changed and reworked as a result of the assembly of the PV system. A thermal separation (distance between module fields) must be maintained according to the PMT PLAN project documents.

Attention: If the actual module dimensions exceed the module widths specified in the table, assembly must not be started.

The specified tightening torques in these assembly instructions must be strictly observed.

After events such as storms, heavy rain, earth movements, etc., the system must be checked by a specialist for damage. If damage is detected during the inspection, these must be remedied immediately. Defective components must be replaced by new components.

Maintenance

Photovoltaic substructures are not maintenance-free. Maintenance, in particular of the correct positioning of the ballast stones and the building protection mats, must be carried out annually and documented in a maintenance log. Furthermore, all components of the PMT mounting system must be checked at regular intervals and documented accordingly. We recommend annual maintenance as per our **Maintenance Protocol**.

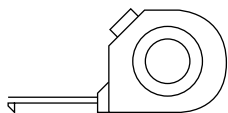
The recommendations for maintenance routines of the PMT X118 system due to thermal expansion must be observed.

After exceptional strong-wind events, we recommend maintenance immediately after the strong-wind event.

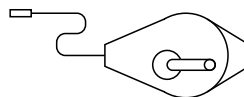
Attention: Failure to maintain the assembly may lead to personal injury as well as financial losses for which PMT assumes no liability.

Required Tools

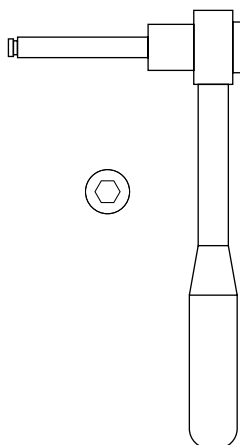
1 Tape measure



2 Chalk line



3 Torque-wrench with attachment Hexagon socket SW 6 mm



4 Spacing template (optional tool)



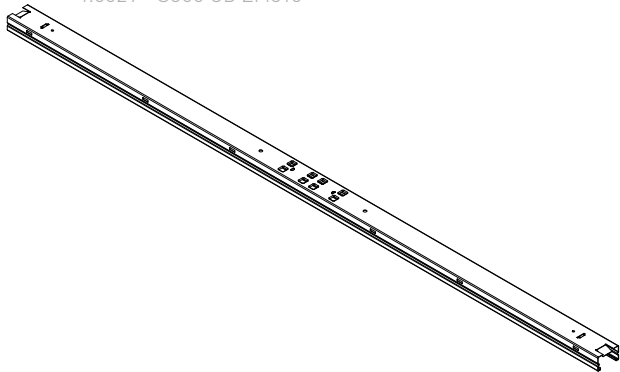


Attention! Some components are available in different lengths and versions.
The exact article versions can be found in the project documents.

Component Types

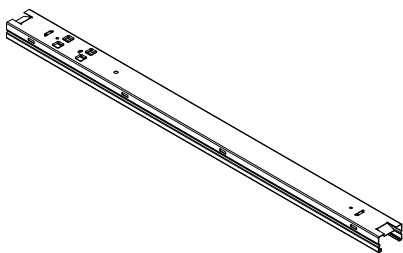
A Swift Rail

1.0529 - S350 GD ZM310



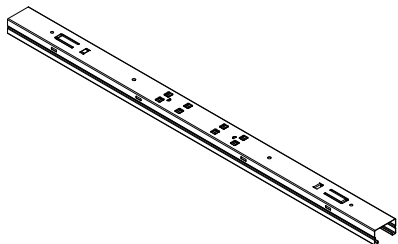
B Swift Rail Short

1.0529 - S350 GD ZM310



C Swift Connector

1.0529 - S350 GD ZM310

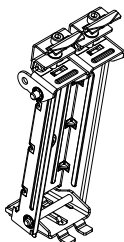


D Summit Double

1.0529 - S350 GD ZM310

1.0531 - S550 GD ZM310

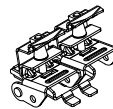
1.4301 - S235



E Pivot Double

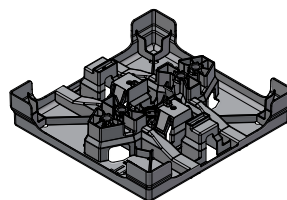
1.0531 - S550 GD ZM310

1.4301 - S235



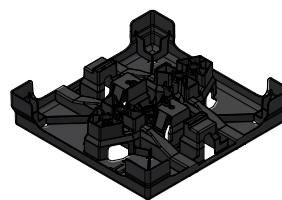
F EasyPlate Connection (iron gray)

PE-HD GF 20

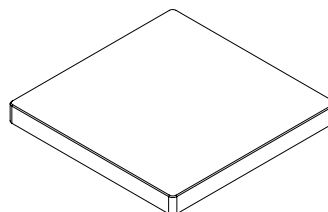


G EasyPlate Support (black)

PE-HD GF 20



H Ballast stone with the standard dimensions 40 × 40 × 4 cm (not included in delivery)



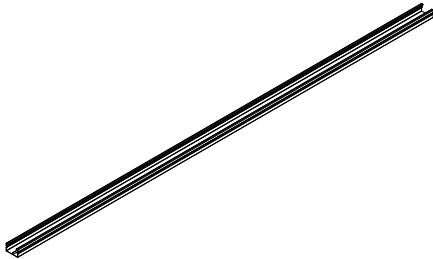


Attention! Some components are available in different lengths and versions.
The exact article versions can be found in the project documents.

Component Types

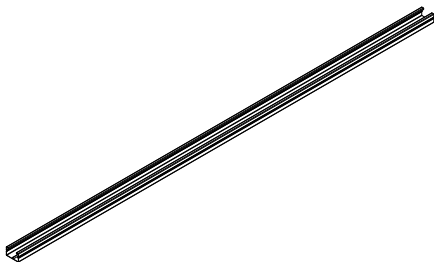
I Row Connector Edge

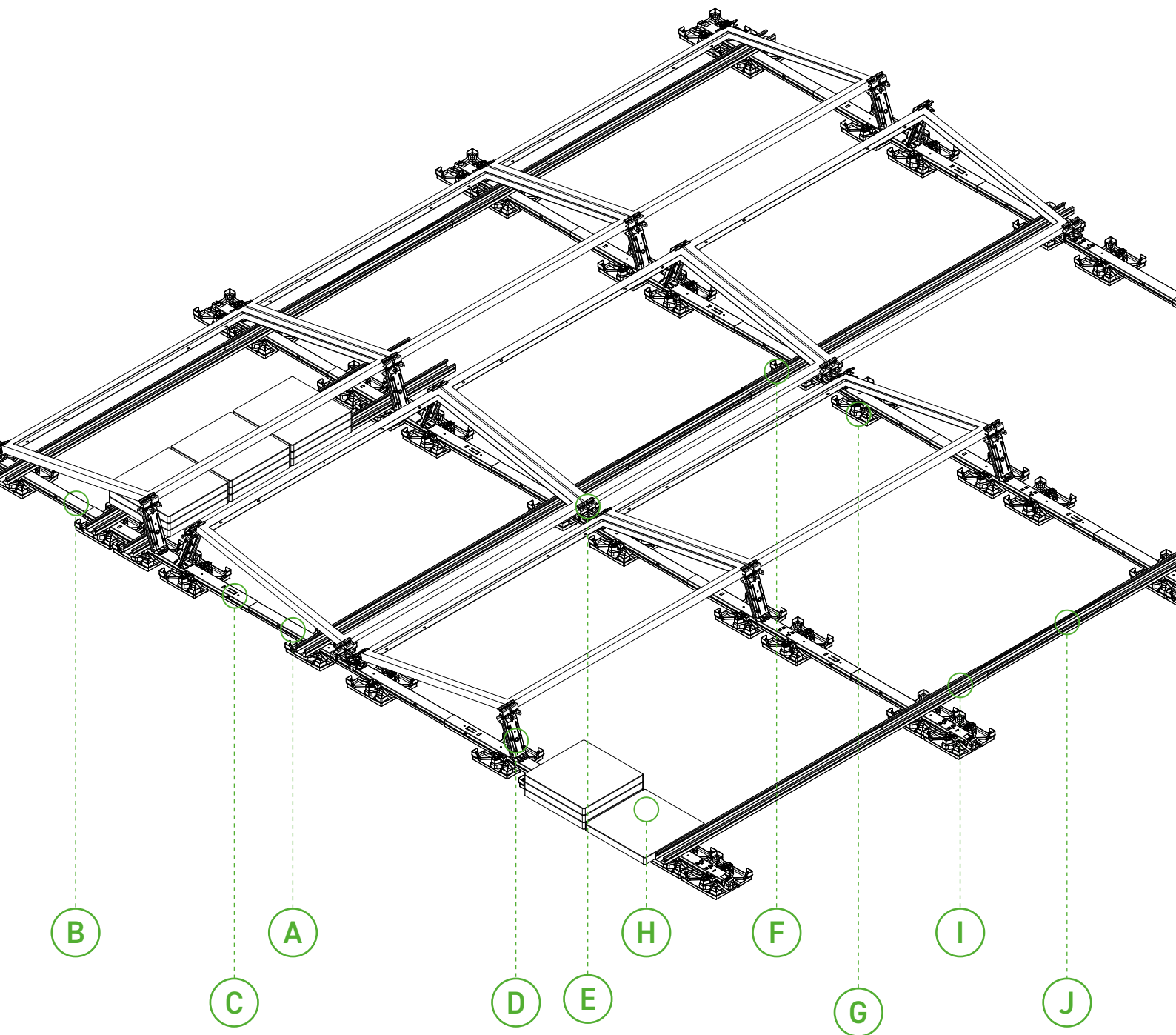
1.0529 - S350 GD ZM310



J Row Link Edge

1.0529 - S350 GD ZM310





A Swift Rail

B Swift Rail Short

C Swift Connector

D Summit Double

E Pivot Double

F EasyPlate Connection

G EasyPlate Support

H Standard ballast stone

I Row Connector Edge

J Row Link Edge

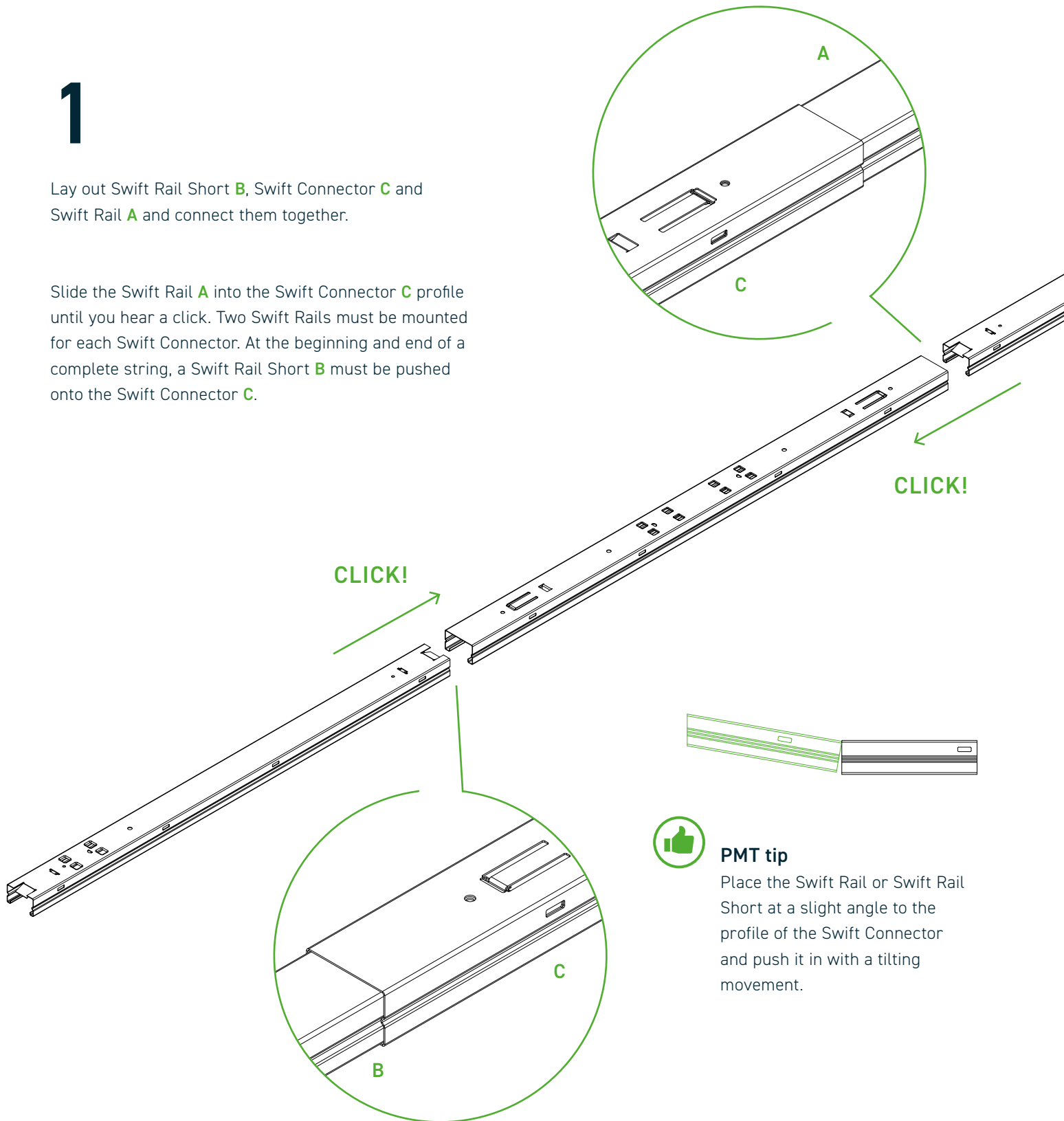
Swift Connection = Connection of Swift Rail and Swift Connector

Row Connection = Row Connector/Link to connection of Swift Connection rows

1

Lay out Swift Rail Short **B**, Swift Connector **C** and Swift Rail **A** and connect them together.

Slide the Swift Rail **A** into the Swift Connector **C** profile until you hear a click. Two Swift Rails must be mounted for each Swift Connector. At the beginning and end of a complete string, a Swift Rail Short **B** must be pushed onto the Swift Connector **C**.



PMT tip

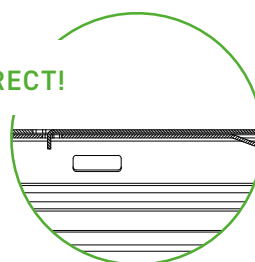
Place the Swift Rail or Swift Rail Short at a slight angle to the profile of the Swift Connector and push it in with a tilting movement.



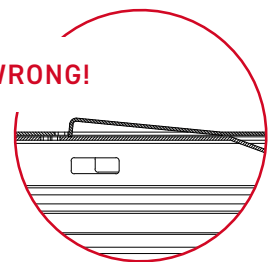
Attention!

Check the snap-lock joint for strength and to ensure it fits perfectly.

CORRECT!

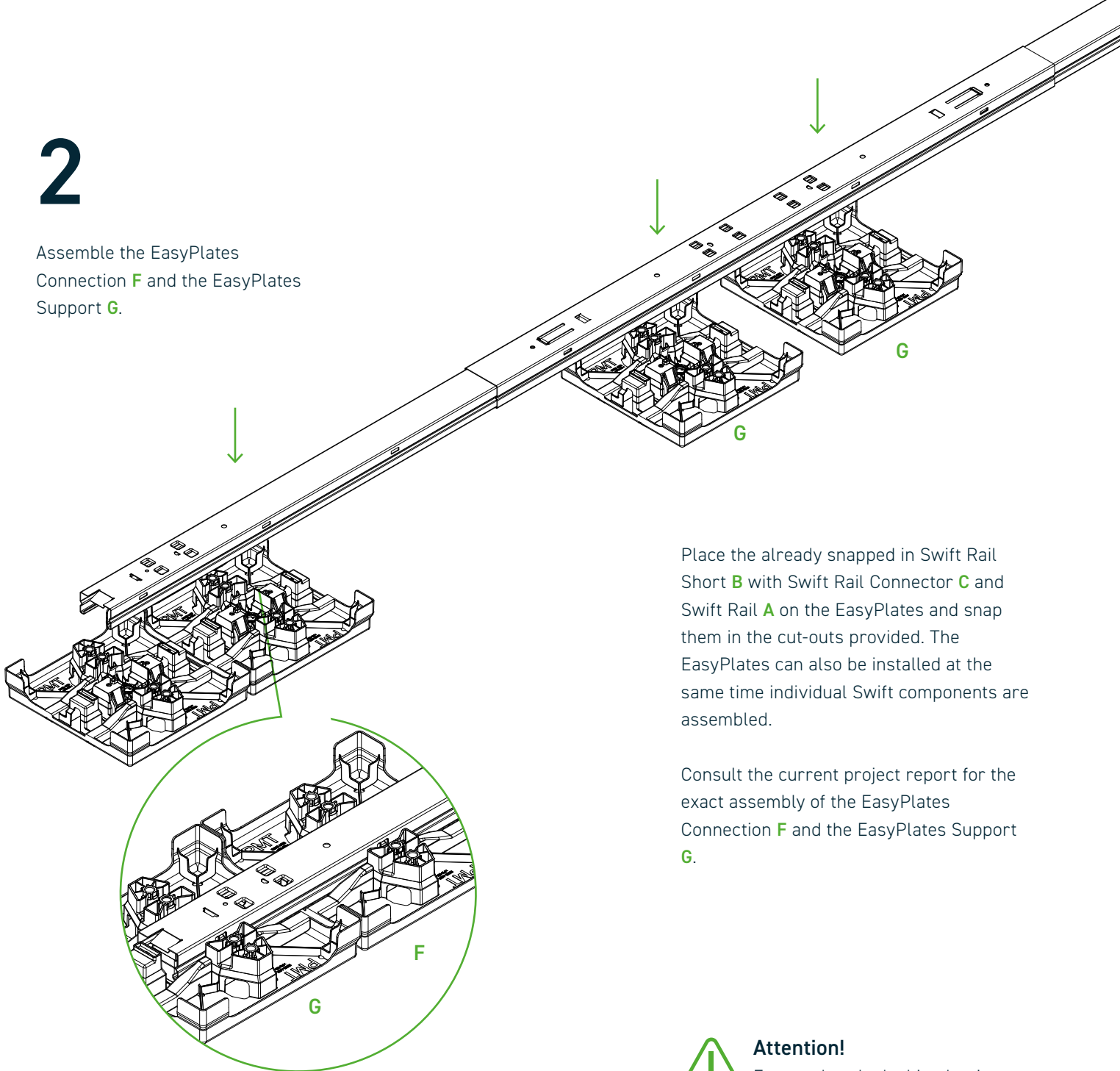


WRONG!



2

Assemble the EasyPlates Connection **F** and the EasyPlates Support **G**.



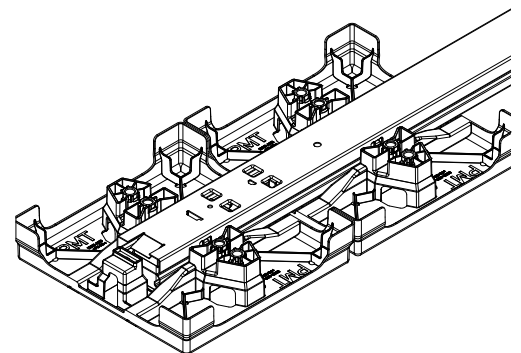
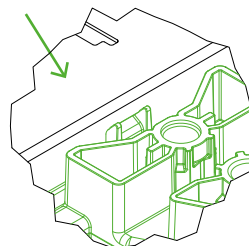
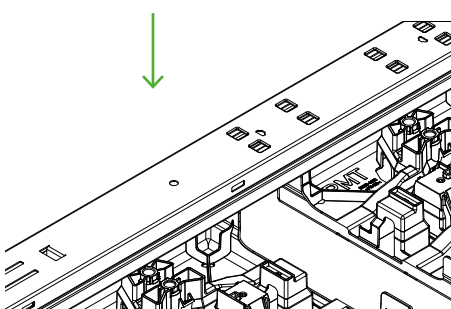
Place the already snapped in Swift Rail Short **B** with Swift Rail Connector **C** and Swift Rail **A** on the EasyPlates and snap them in the cut-outs provided. The EasyPlates can also be installed at the same time individual Swift components are assembled.

Consult the current project report for the exact assembly of the EasyPlates Connection **F** and the EasyPlates Support **G**.



Attention!

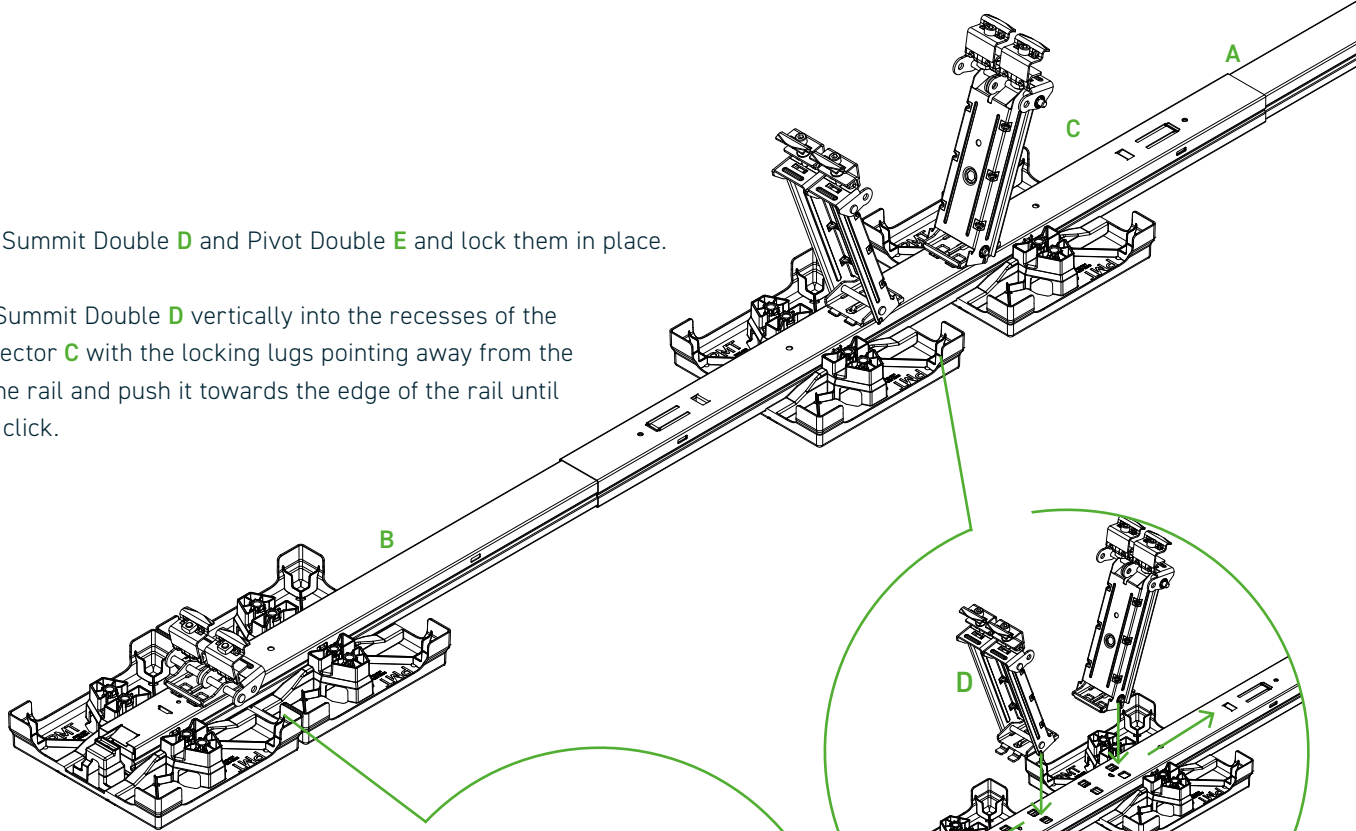
Ensure that the locking lug is appropriately locked to the Swift Rail, Swift Rail Short or Swift Connector.



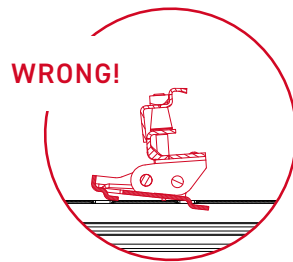
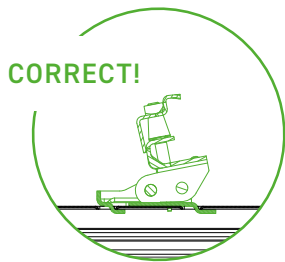
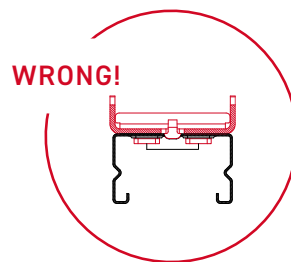
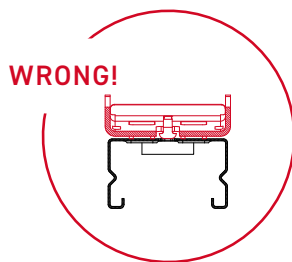
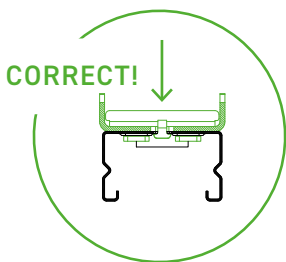
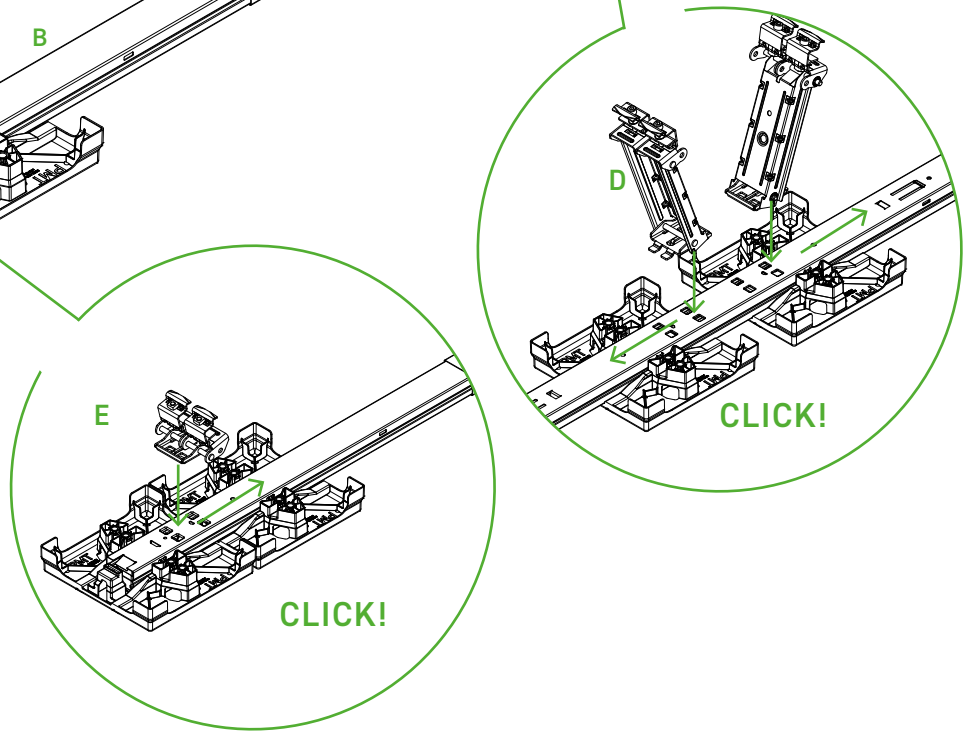
3

Put on the Summit Double **D** and Pivot Double **E** and lock them in place.

Press the Summit Double **D** vertically into the recesses of the Swift Connector **C** with the locking lugs pointing away from the centre of the rail and push it towards the edge of the rail until you hear a click.



Press the Pivot Double **E** with the locking lugs vertically into the recesses of the Swift Rail Short **B** and push it towards the middle of the rail until you hear a click. With Swift Rail **A**, the Pivot Double **E** must be placed with the locking lugs pointing away from the centre of the rail and locked in place.

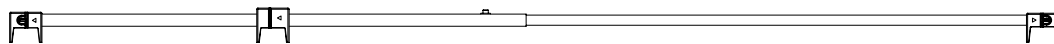


Attention!

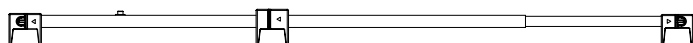
Check the snap-lock joint to ensure it fits perfectly. When assembling, ensure that all 4 locking tabs are inserted into the recess provided and that the hammer head engages in the corresponding T-recess. Apply light pressure to the hammer head to ensure that it assumes its final position.

4

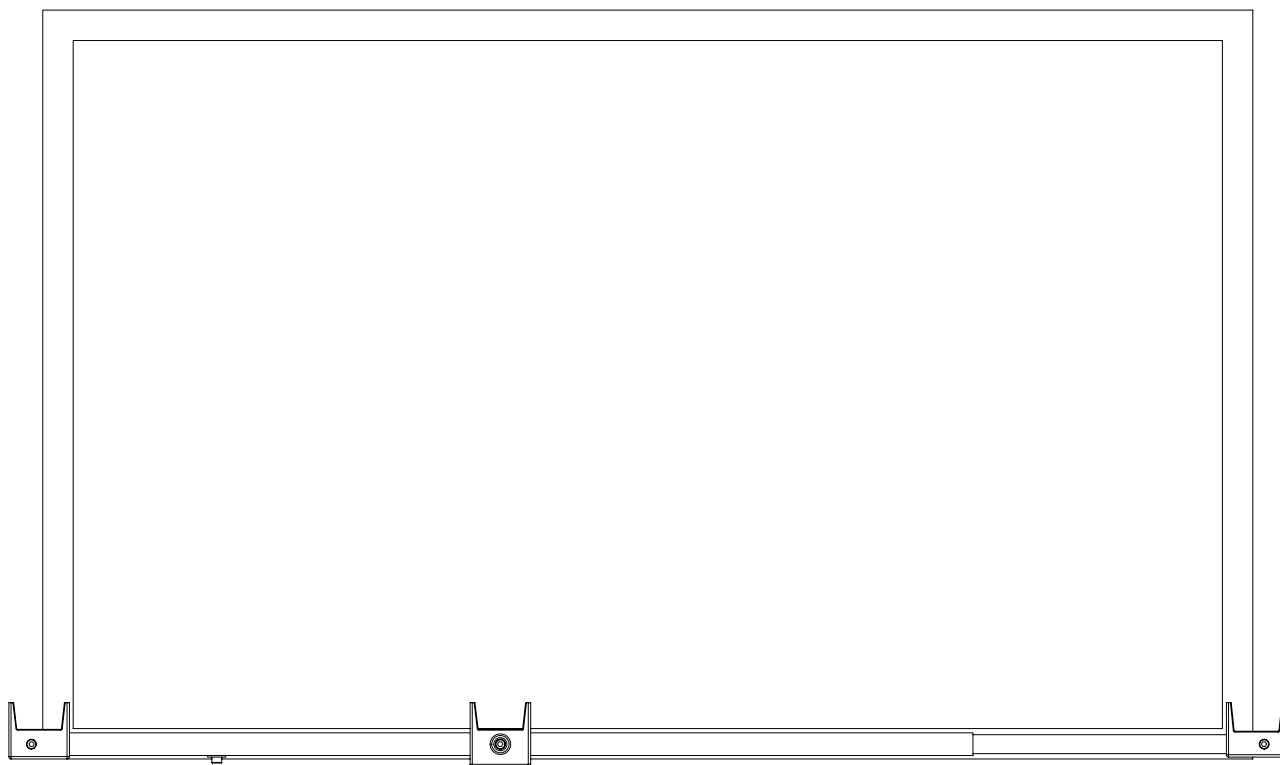
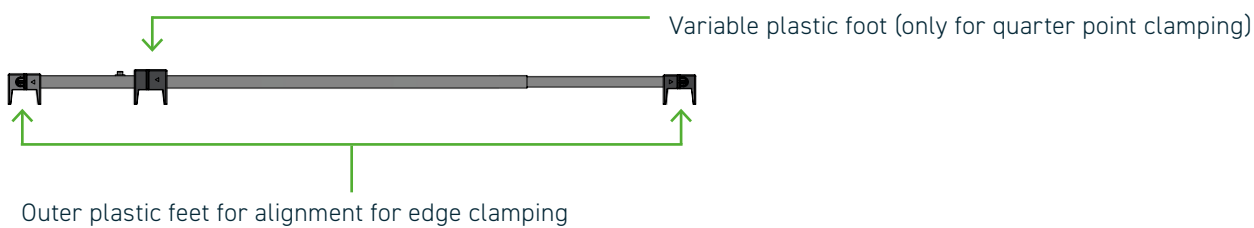
Determining the module length using the spacing template.



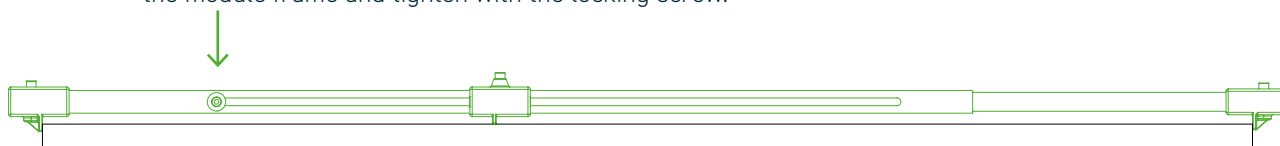
Maximum length: 2,500mm



Minimum length: 1,600mm

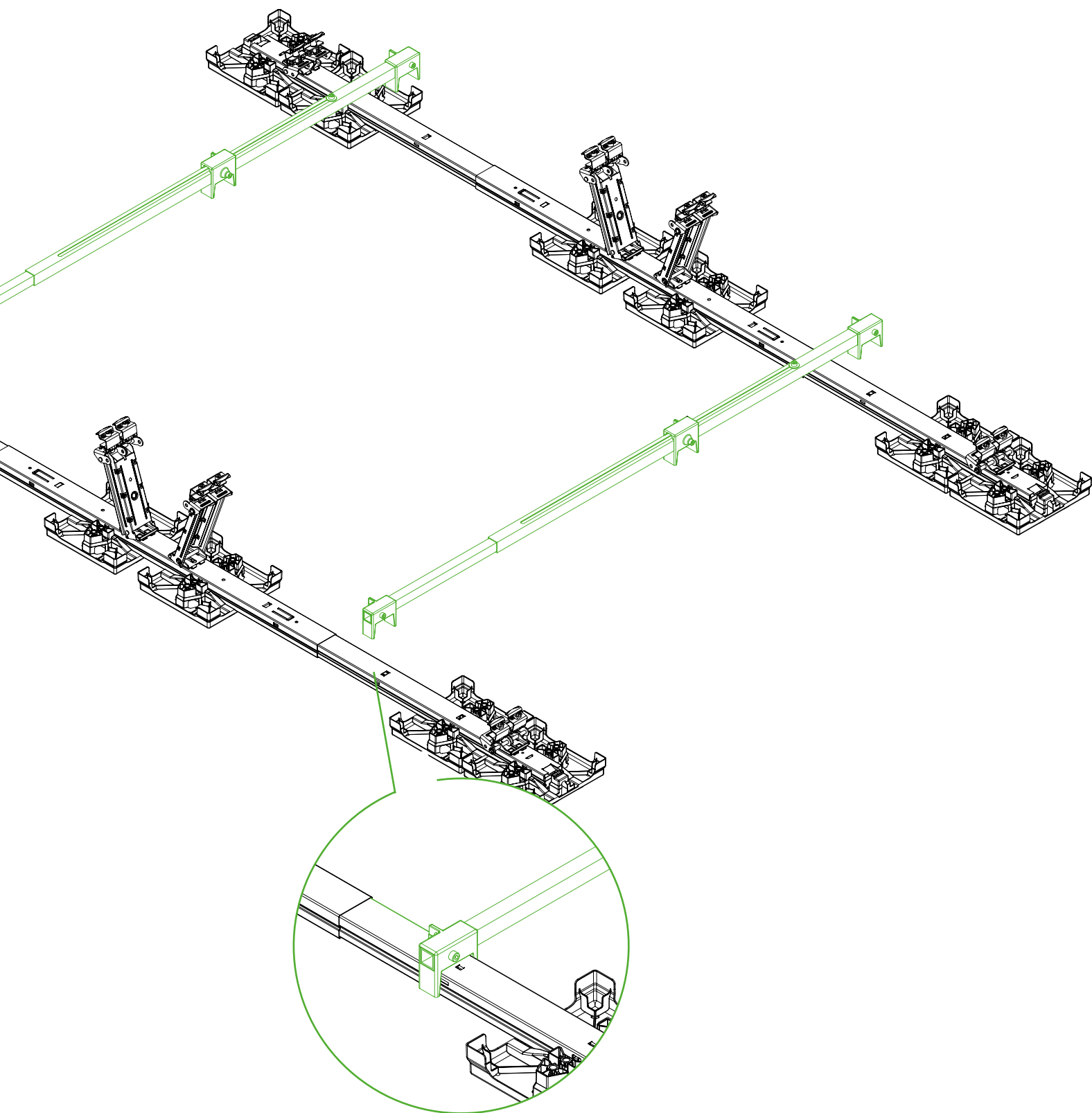


To determine the module length, rotate the spacing template, place the two outer spacing ribs against the module frame and tighten with the locking screw.



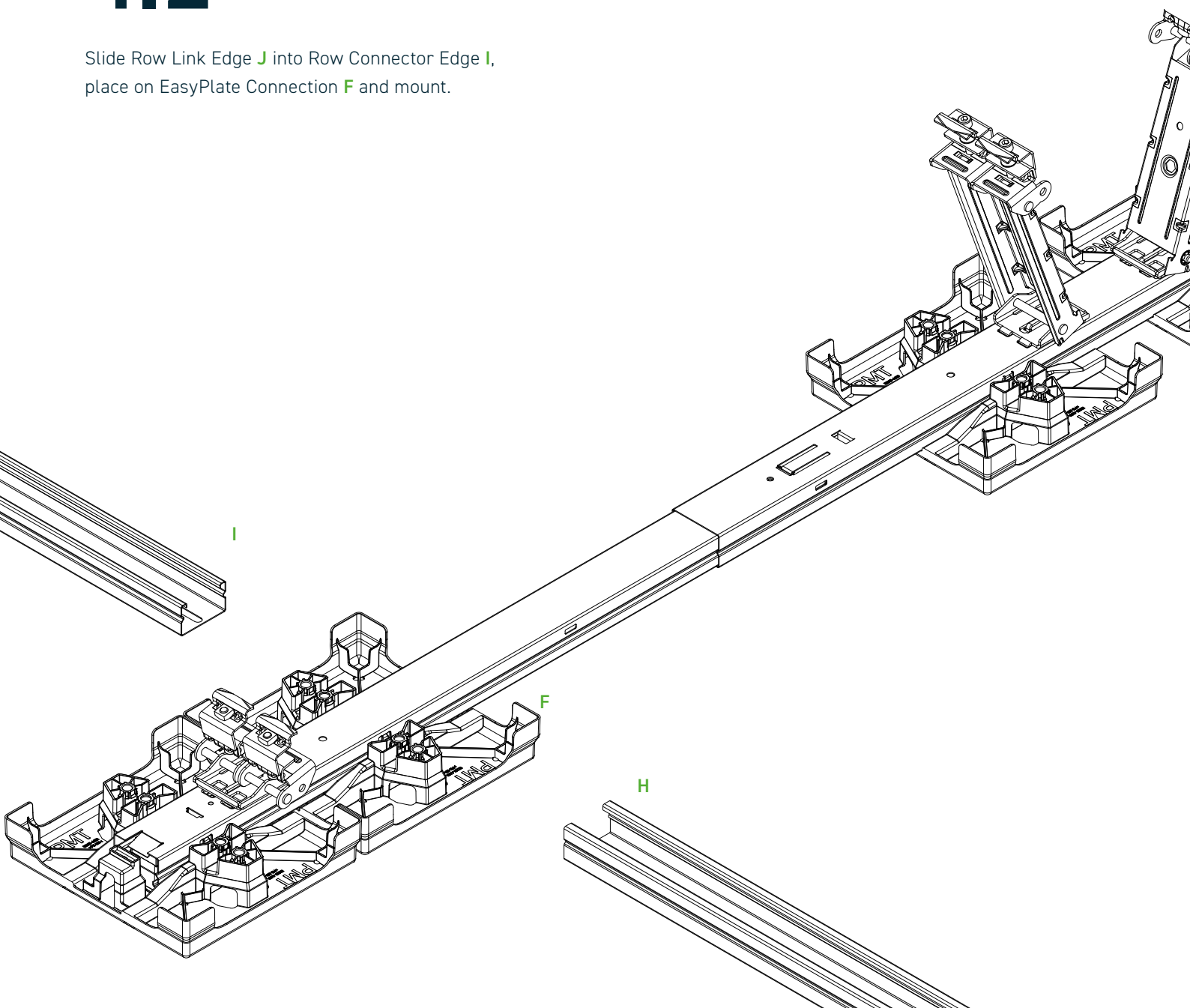
4.1

Align the mounted and positioned rails using the previously set spacing template.

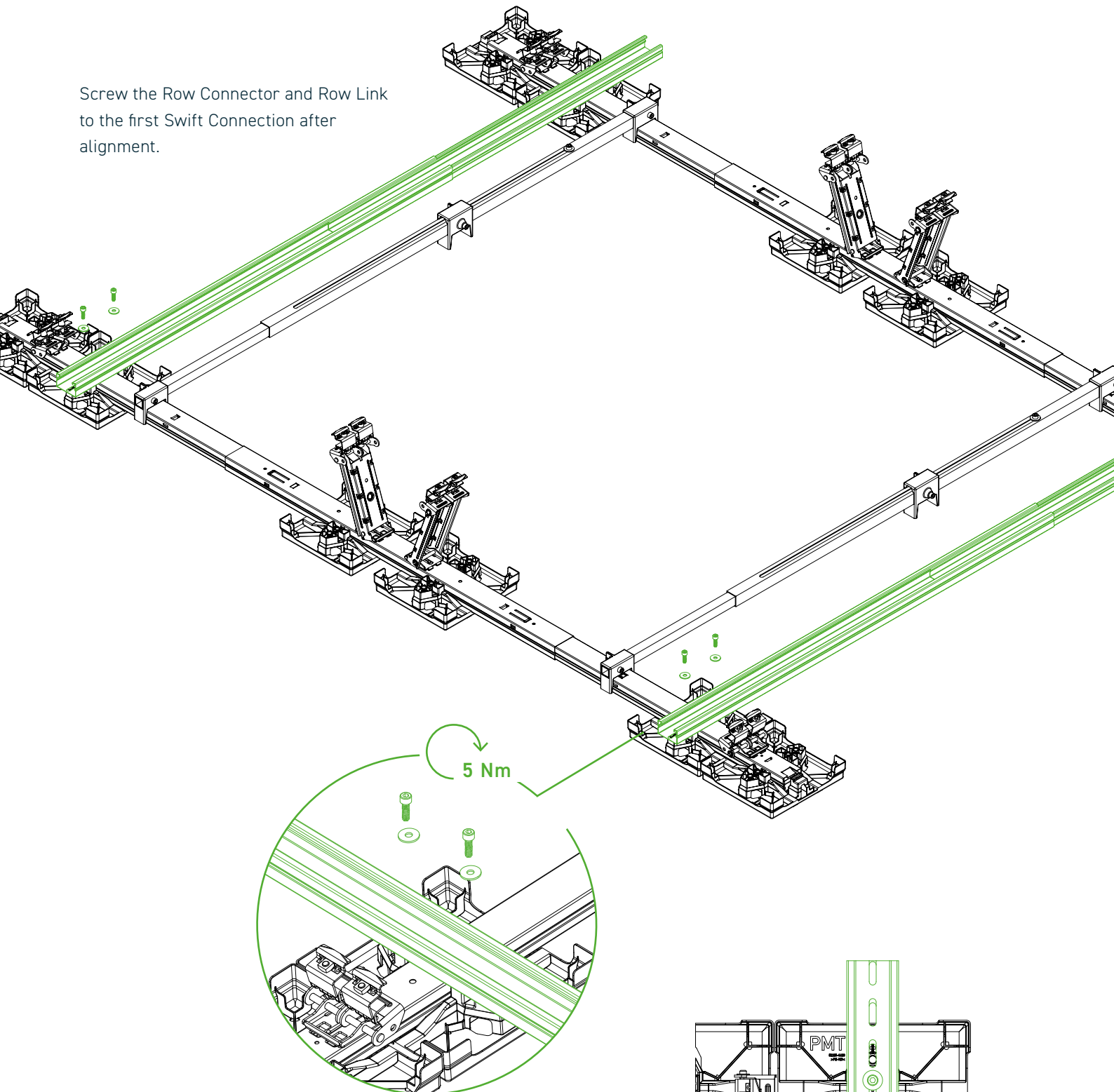


4.2

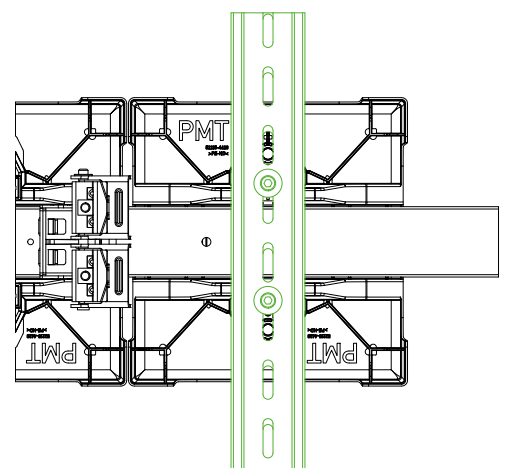
Slide Row Link Edge **J** into Row Connector Edge **I**, place on EasyPlate Connection **F** and mount.



Screw the Row Connector and Row Link to the first Swift Connection after alignment.

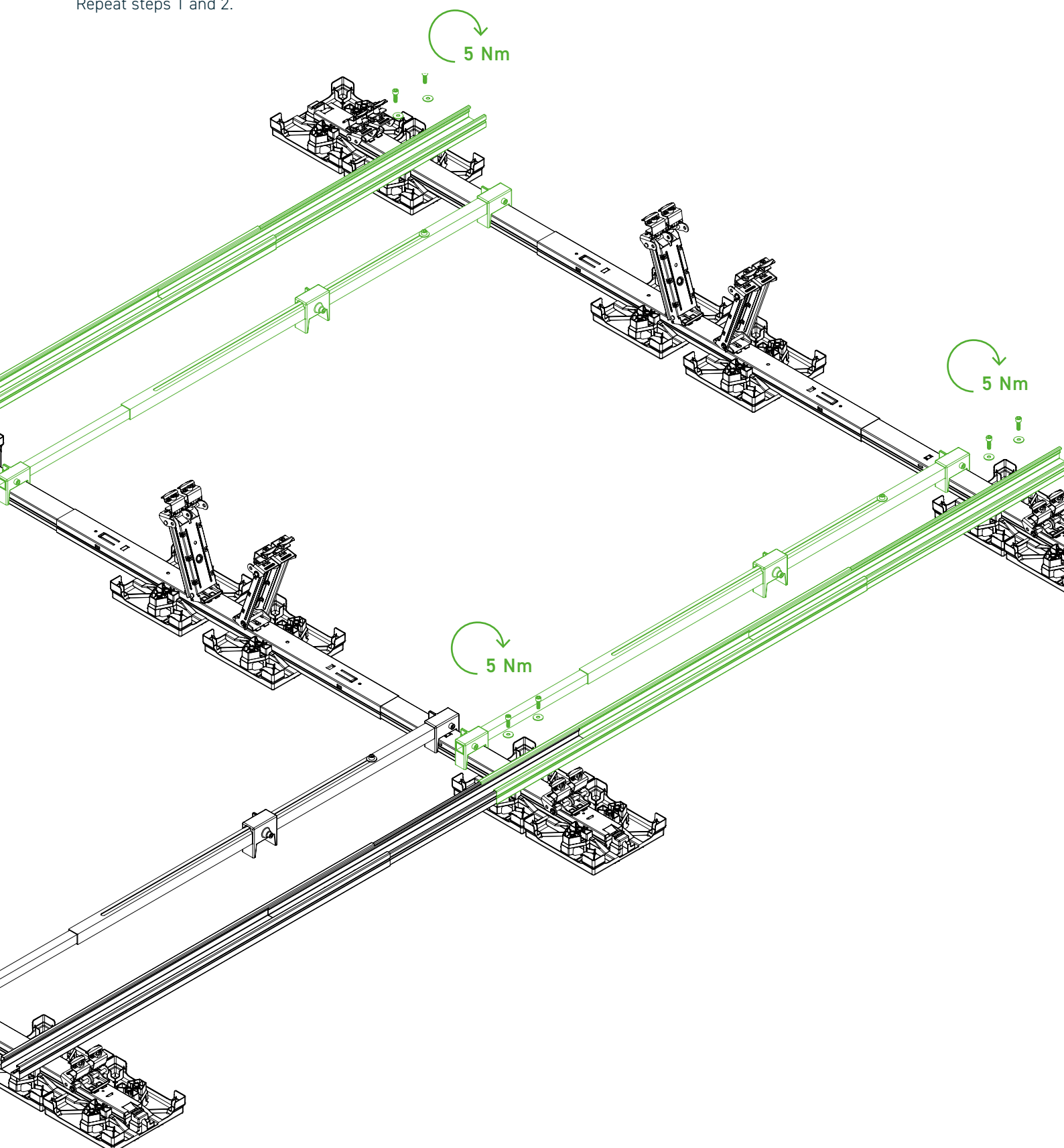


Row Connector Edge **I**, Row Link Edge **J** and EasyPlate Connection **F** must be mounted at the specified locations in accordance with the project report.

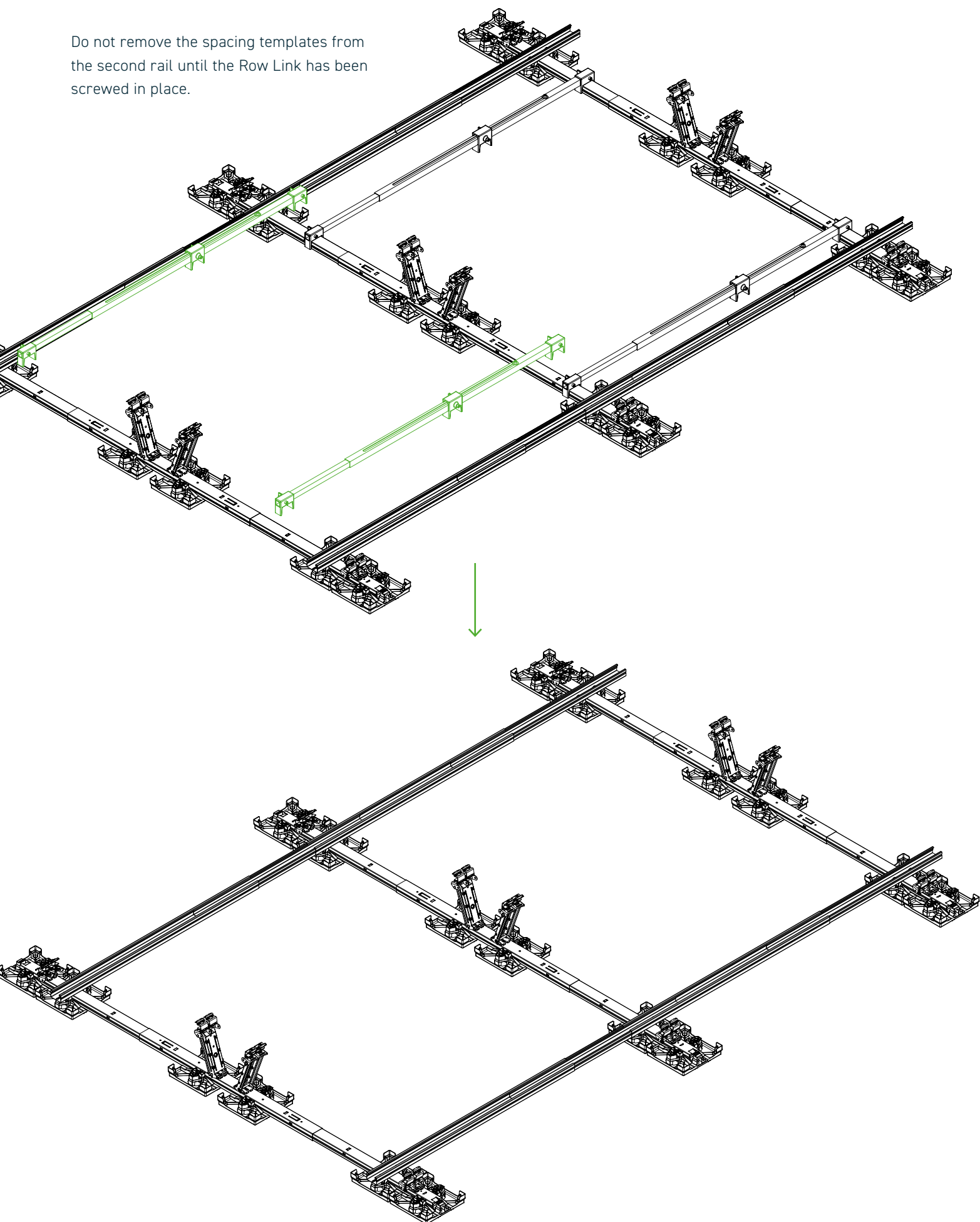


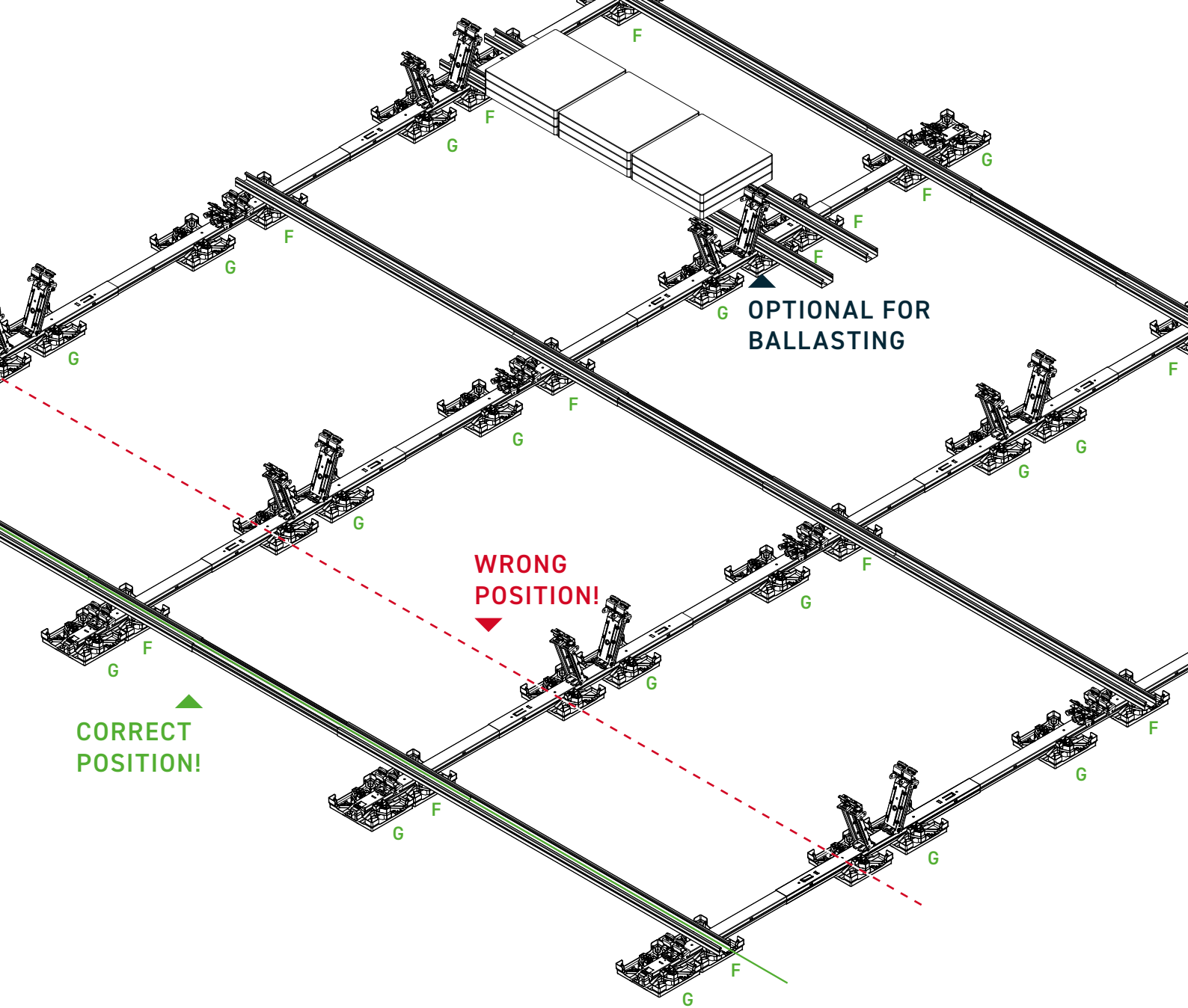
4.3

Repeat steps 1 and 2.



Do not remove the spacing templates from the second rail until the Row Link has been screwed in place.





NOTE

Please always refer to the current project documents for the exact location / position of the Row Connector Edge **I**, Row Link Edge **J** and EasyPlate Connection **F**.

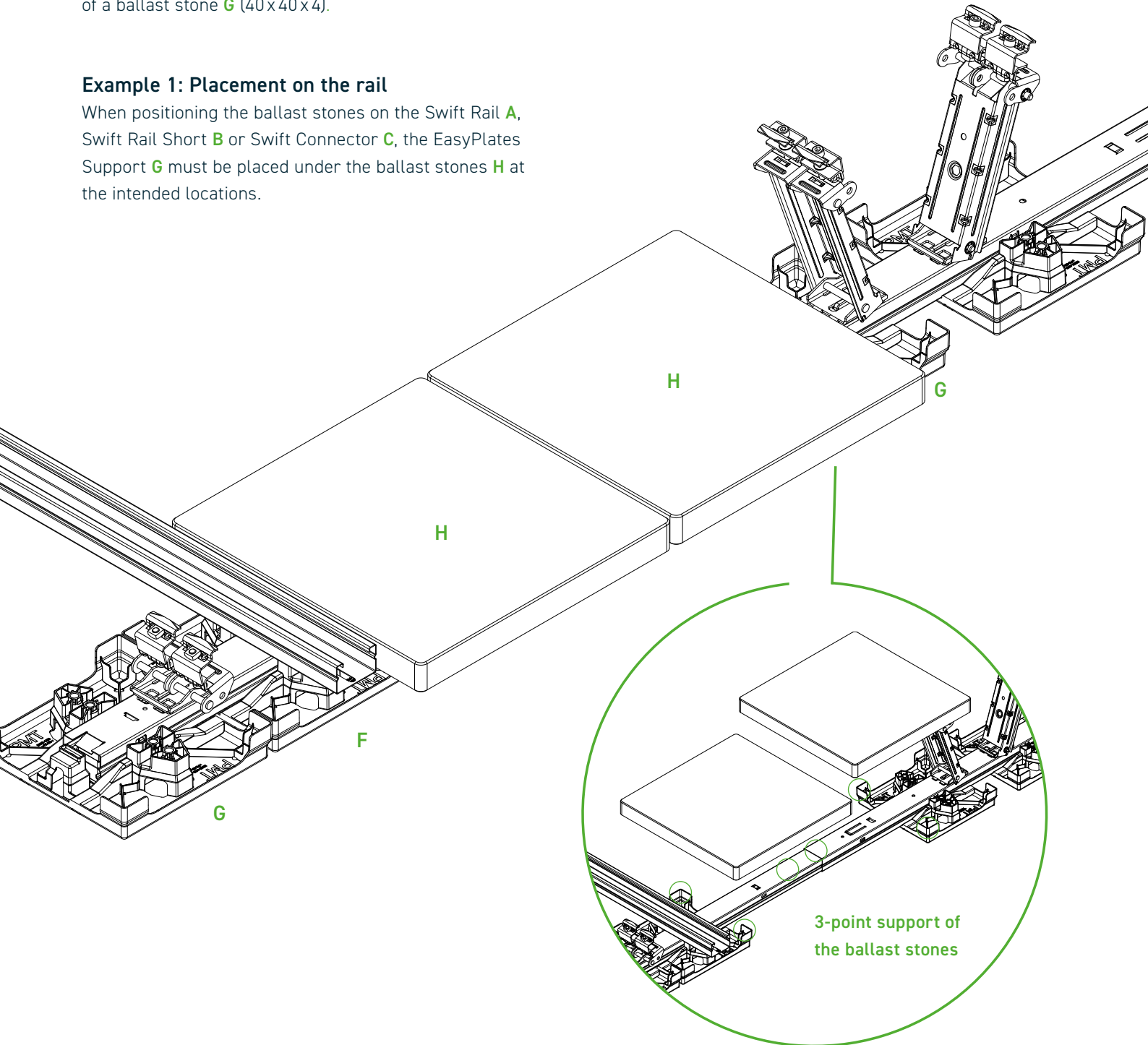
Row Connector Edge **I** and Row Link Edge **J** must always be mounted once per double module on a pivot and at the end of a system. Ensure that the assembly is always carried out on the same side of the double module unit.

5

Options for ballasting using the example of a ballast stone **G** (40 x 40 x 4).

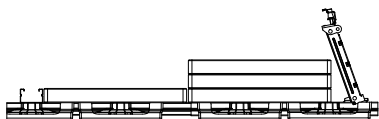
Example 1: Placement on the rail

When positioning the ballast stones on the Swift Rail **A**, Swift Rail Short **B** or Swift Connector **C**, the EasyPlates Support **G** must be placed under the ballast stones **H** at the intended locations.

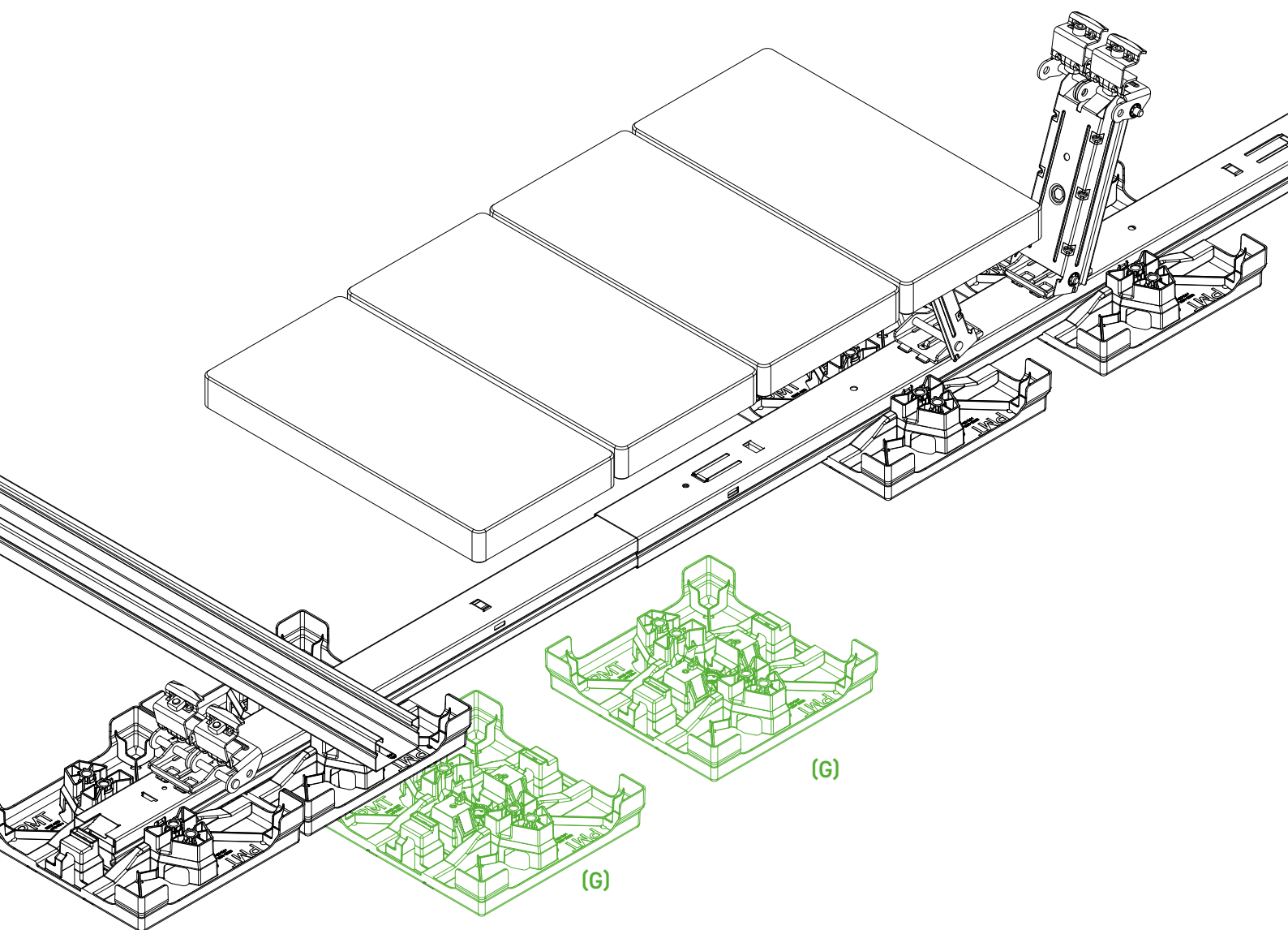


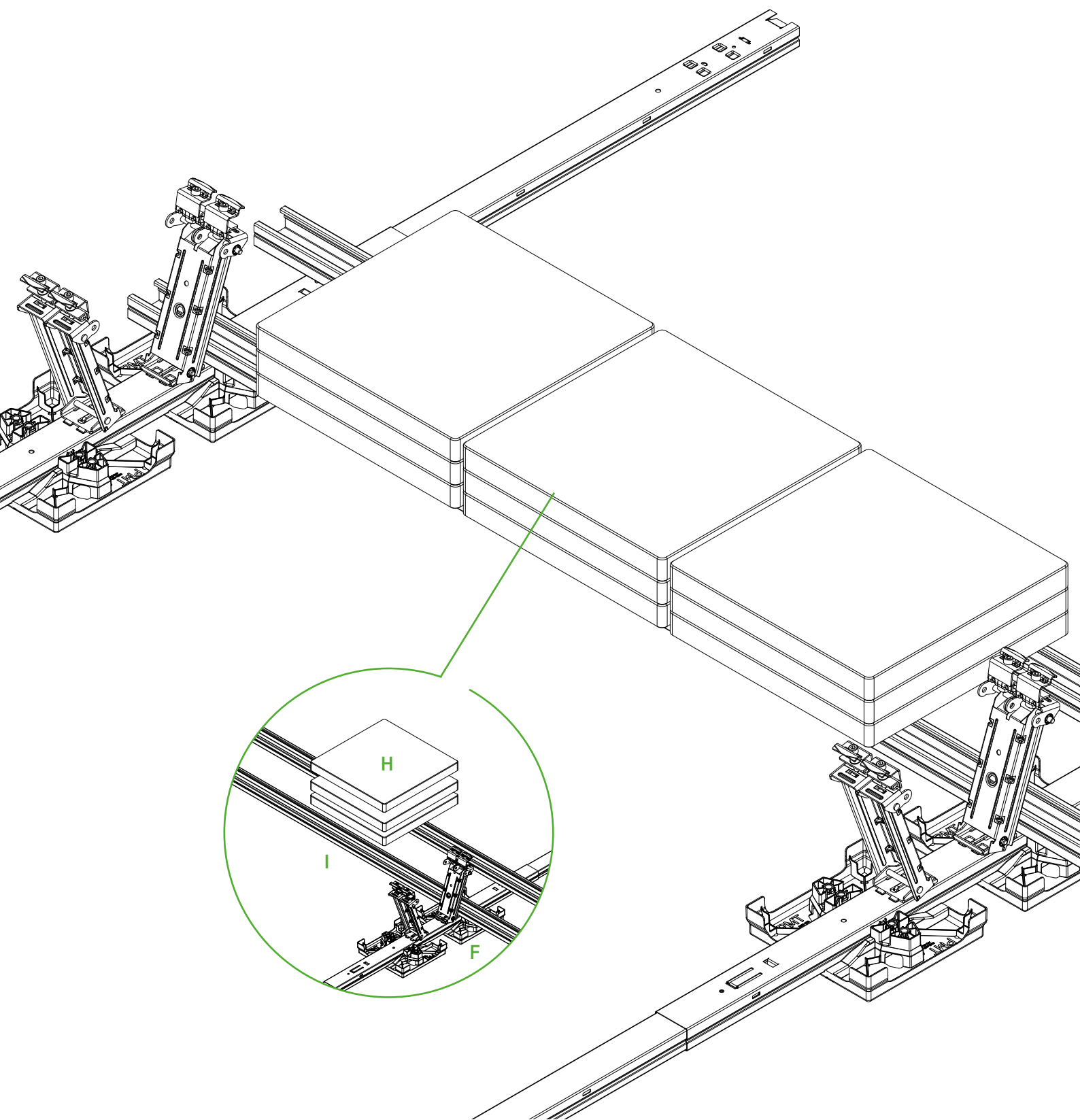
Attention!

It must be ensured that the ballast stone has at least the 3-point support shown. See the current project report for the number of the EasyPlate Support.



Optionally, depending on the insulation and size of the ballast stones, more EasyPlates Support (G) can also be installed.





Example 2: Placement on Row Connector Edge / Row Link Edge

With this placement variant, Row Connector Edge **H** and Row Link Edge **I** are additionally mounted within the system on which the ballast stones are placed.

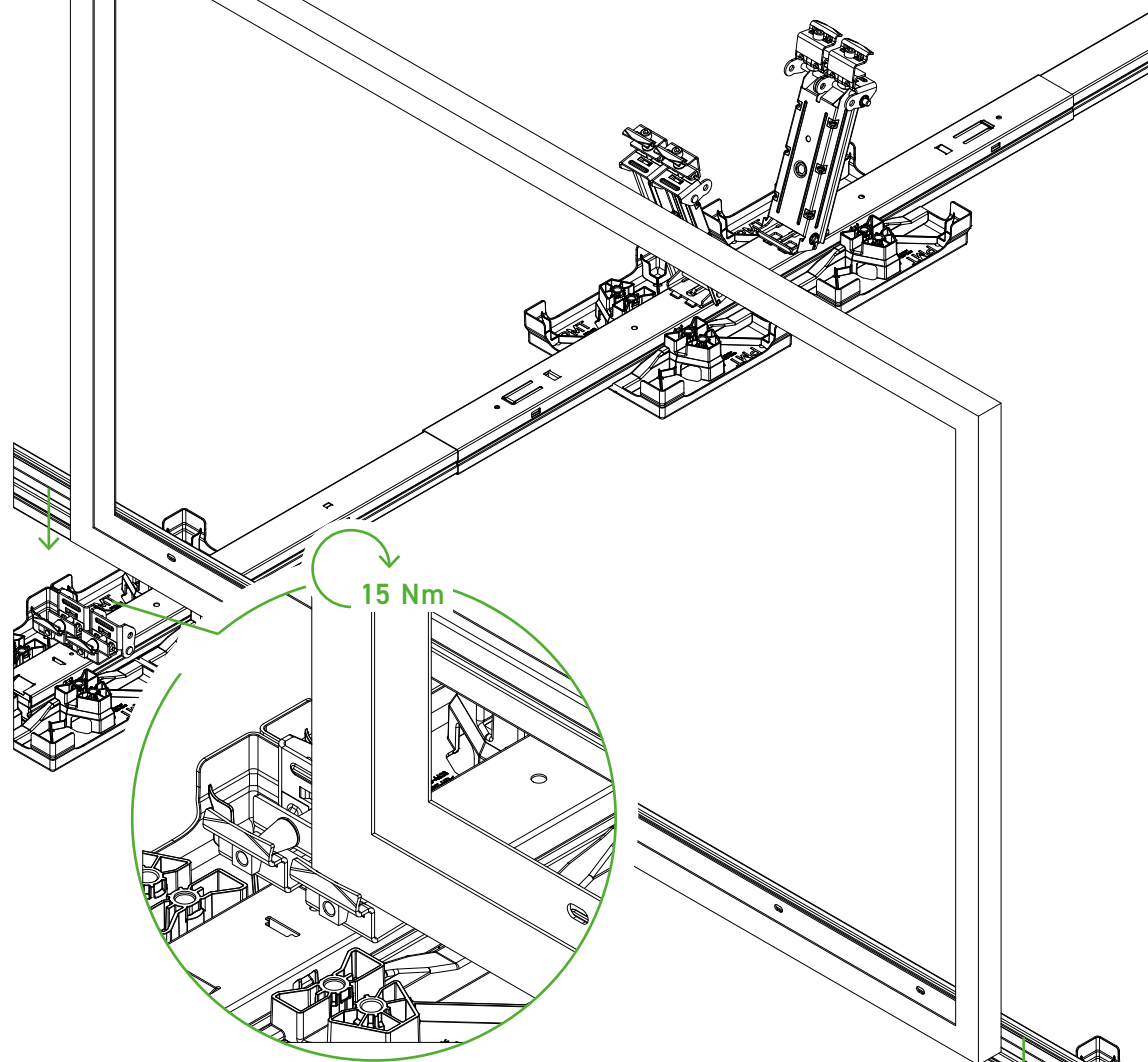


Note

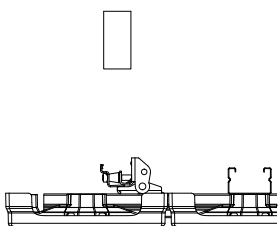
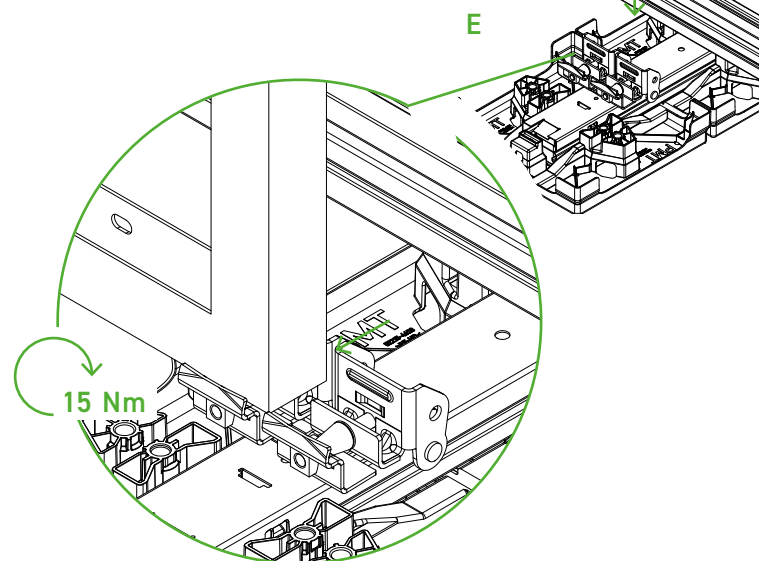
See the current project report for the number and location of ballasting.

6

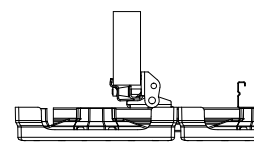
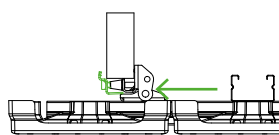
Insert the modules vertically into the Pivot Double **E** and screw them in on the reverse side.



Move the Pivot Double **E** to the vertical position and insert the module into the clamps from above. Then screw on from the rear side, checking that it is firmly in place and in the correct position.

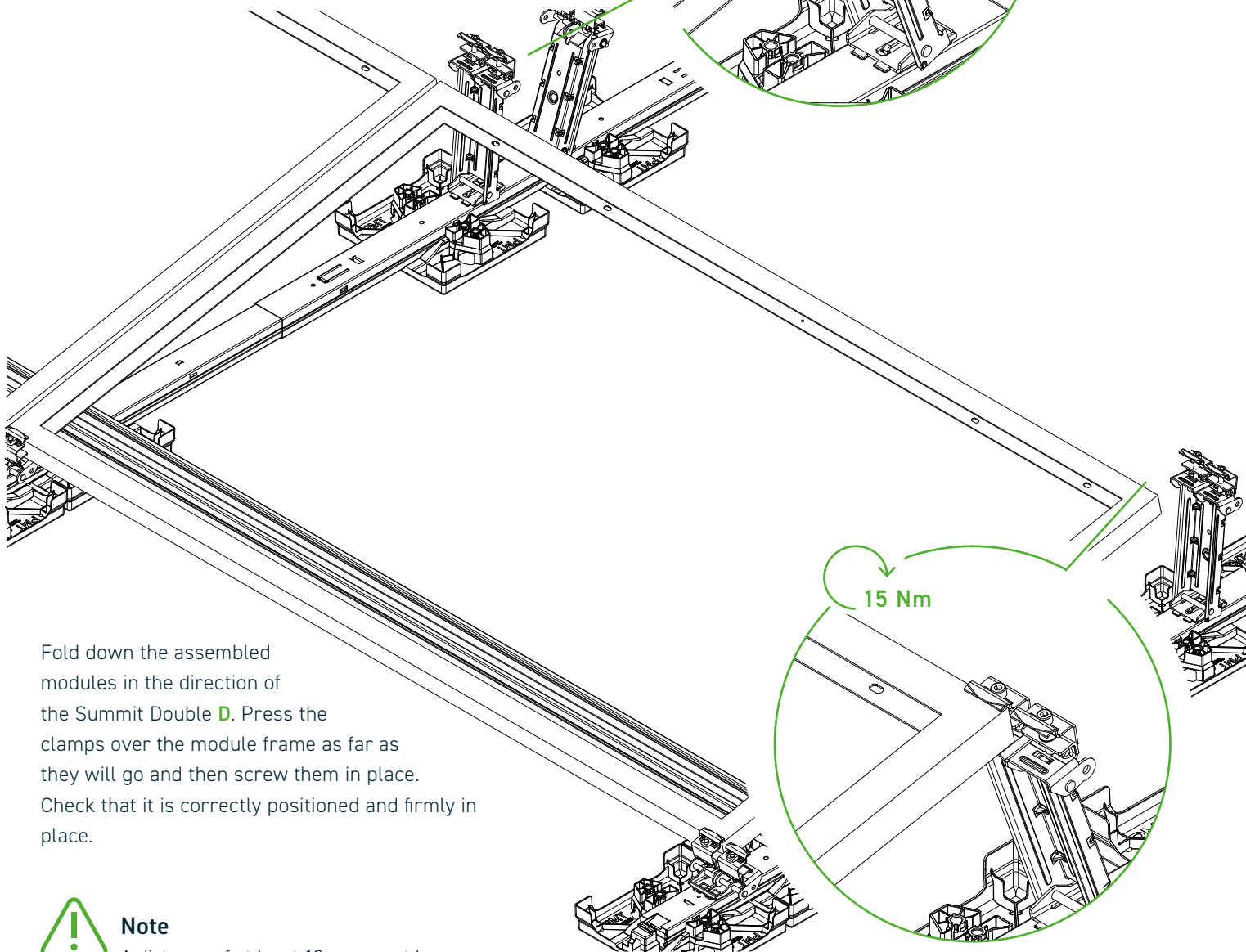


Screw them in on the reverse side.



7

Fold down attached modules, insert into Summit Double **D** clamps and screw into place.



Fold down the assembled modules in the direction of the Summit Double **D**. Press the clamps over the module frame as far as they will go and then screw them in place. Check that it is correctly positioned and firmly in place.

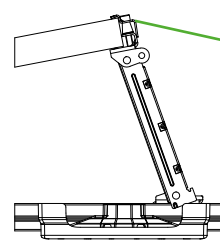
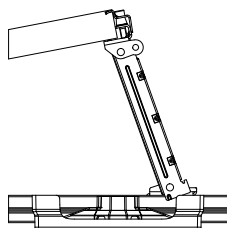
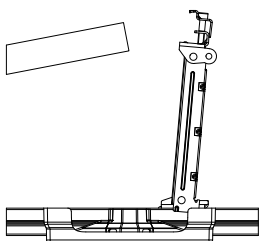


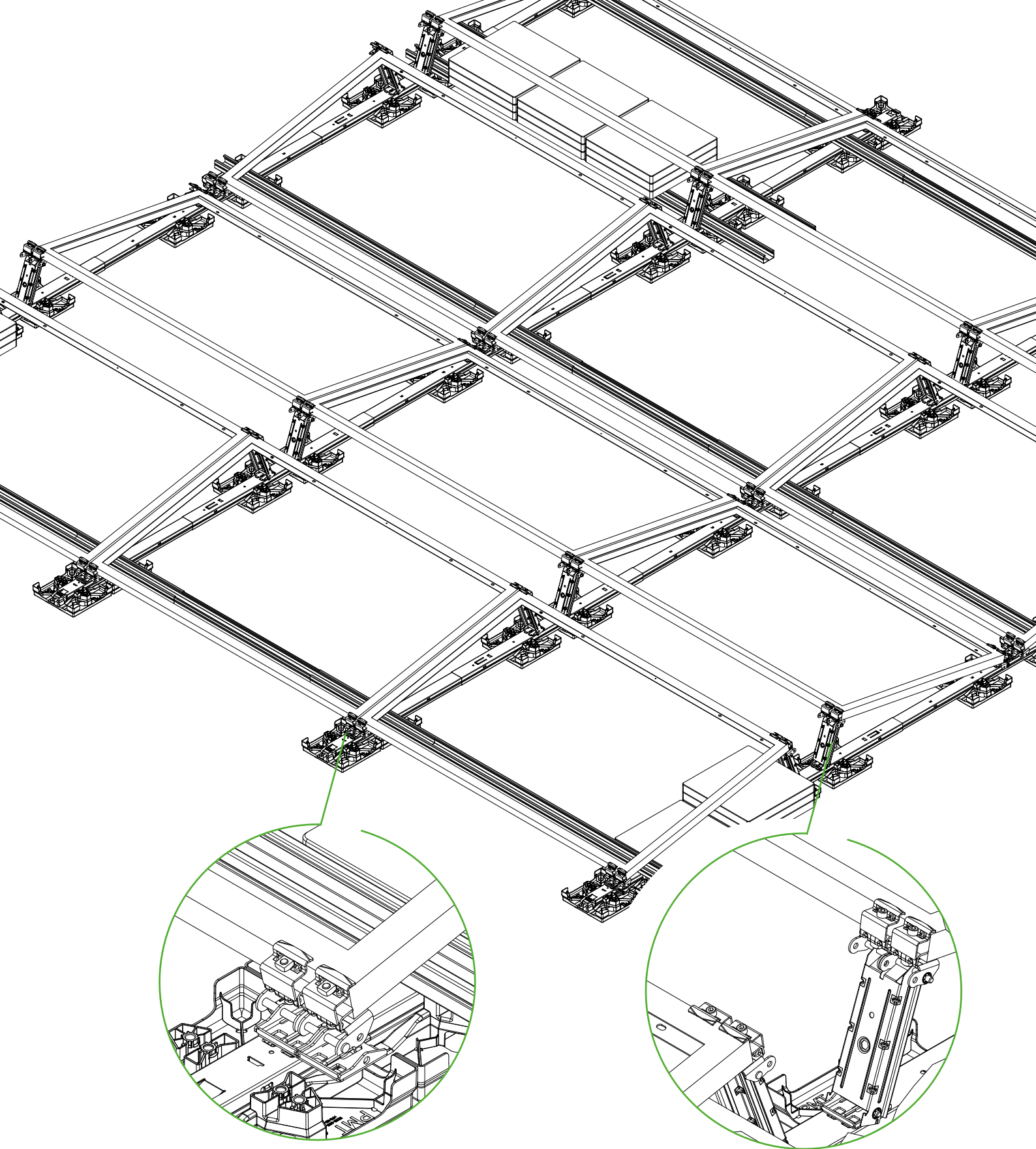
Note

A distance of at least 10 mm must be maintained between the module frames.



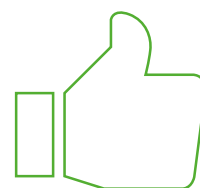
Screw them in from above.





At the end of a system, the Pivot Double and Summit Double can be mounted with both clamps over the module frame.

**DONE WITH THE
BASIC SYSTEM!**





Attention! Some components are available in different lengths and versions.
The exact article versions can be found in the project documents.

Optional component types

1 EasyPlate Gravel

PE-HD



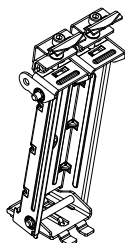
5 Swift Shield Bracket

1.0531 - S550 GD ZM310



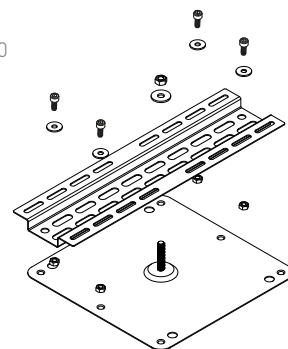
2 Summit Double+

1.0529 - S350 GD ZM310



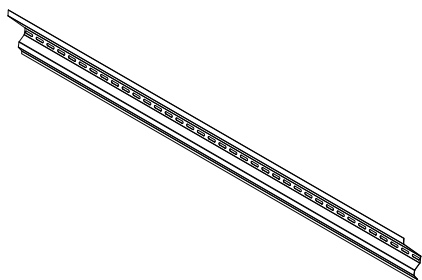
6 Stud Link

1.0529 - S350 GD ZM310



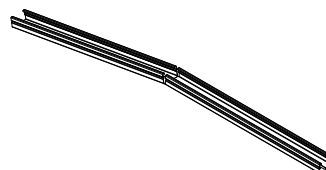
3 Swift Shield Link

1.0529 - S350 GD ZM310



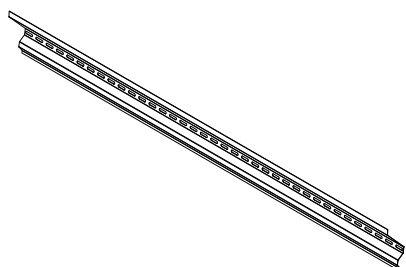
7 Row Ridge

1.0529 - S350 GD ZM310



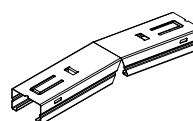
4 Swift Shield Edge

1.0529 - S350 GD ZM310



8 Swift Ridge

1.0529 - S350 GD ZM310



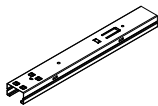


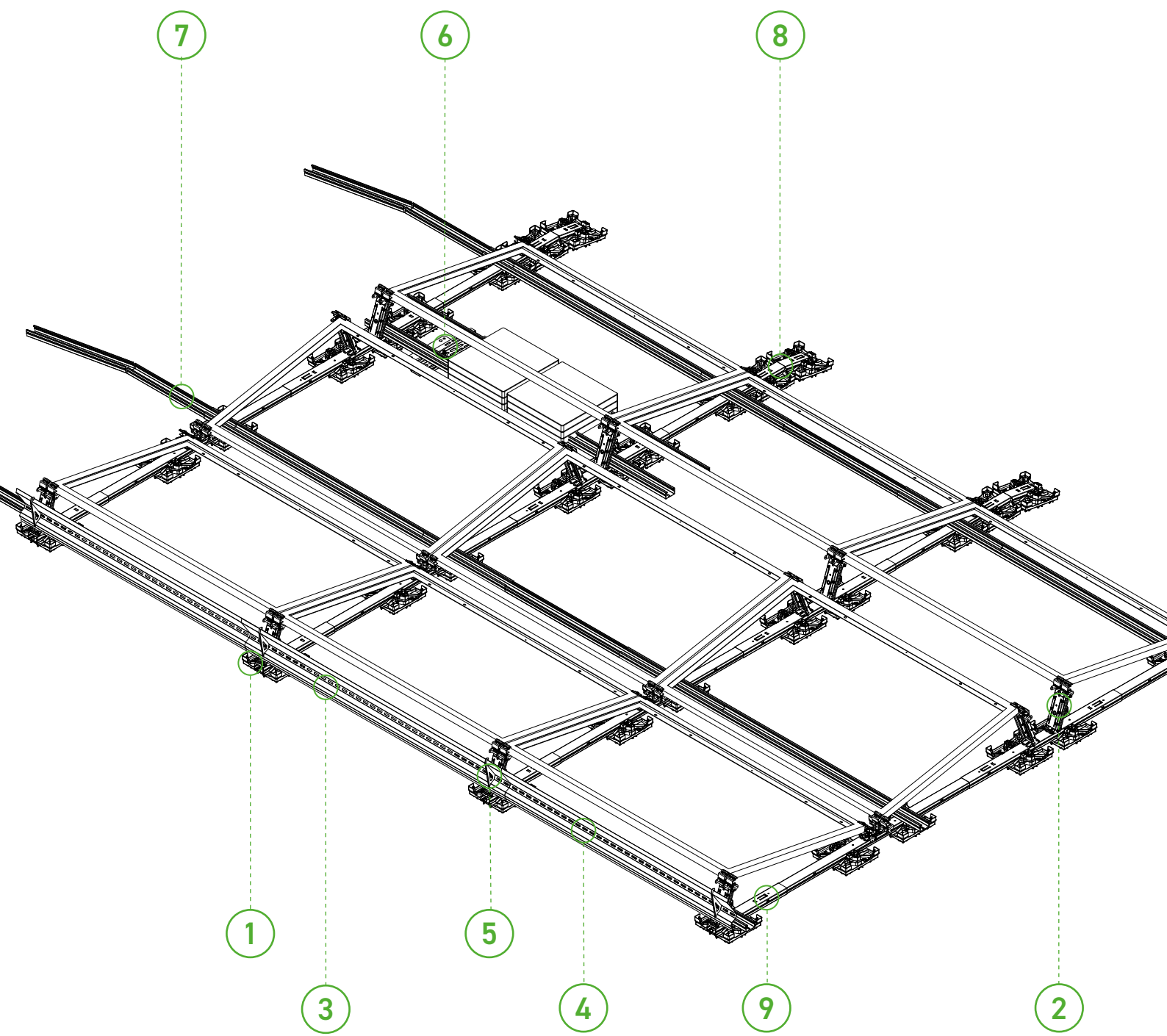
Attention! Some components are available in different lengths and versions.
The exact article versions can be found in the project documents.

Optional component types

9 Swift Edge

1.0529 - S350 GD ZM310





1 EasyPlate Gravel

2 Summit Double+

3 Swift Shield Link

4 Swift Shield Edge

5 Swift Shield Bracket

6 Stud Link

7 Row Ridge

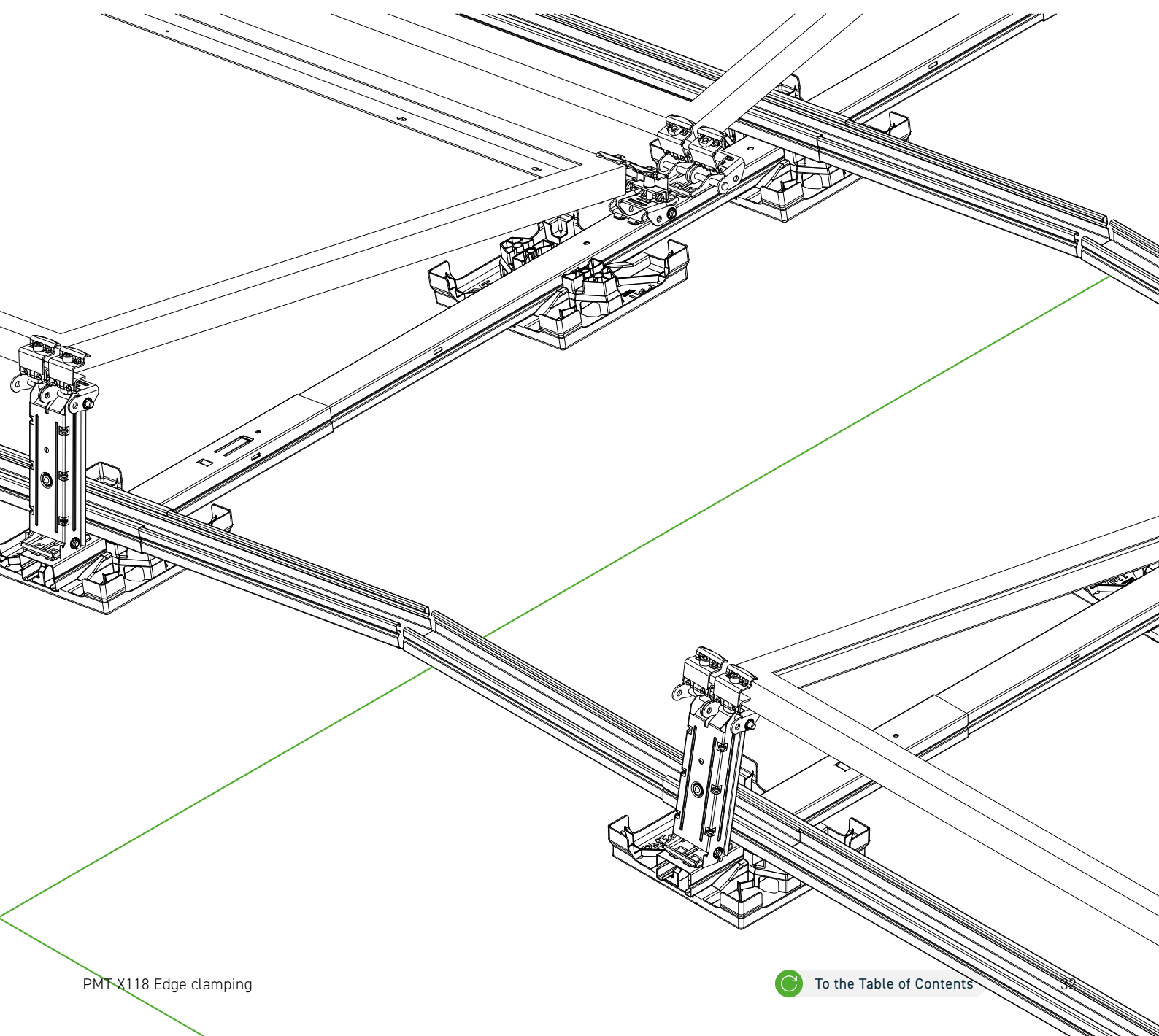
8 Swift Ridge

9 Swift Edge

Assembly of special components

Optional installation steps:

- | | | | |
|---|---------------------------------------|---|-------------|
| 1 | EasyPlate Gravel | 5 | Stud Link |
| 2 | Summit Double+ | 6 | Row Ridge |
| 3 | Swift Shield Link & Swift Shield Edge | 7 | Swift Ridge |
| 4 | Swift Shield Bracket | 8 | Swift Edge |

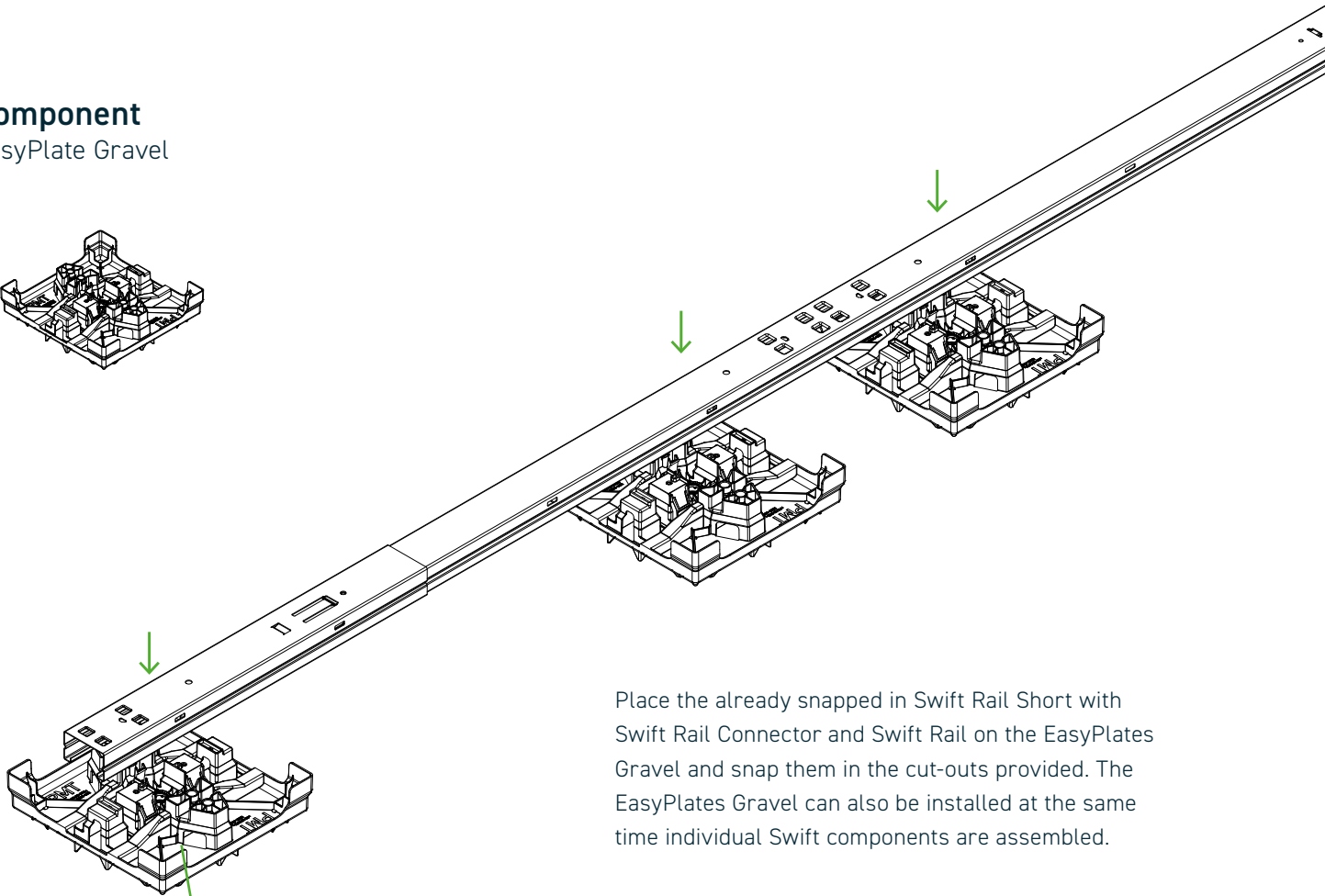
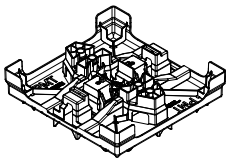


1

OPTIONAL INSTALLATION STEP **EASYPLATE GRAVEL**

Component

EasyPlate Gravel

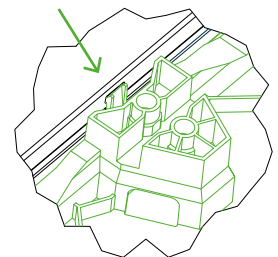
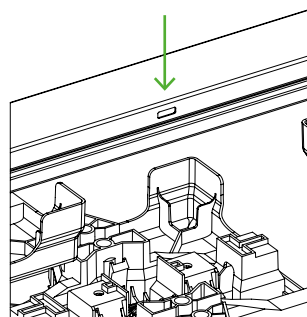
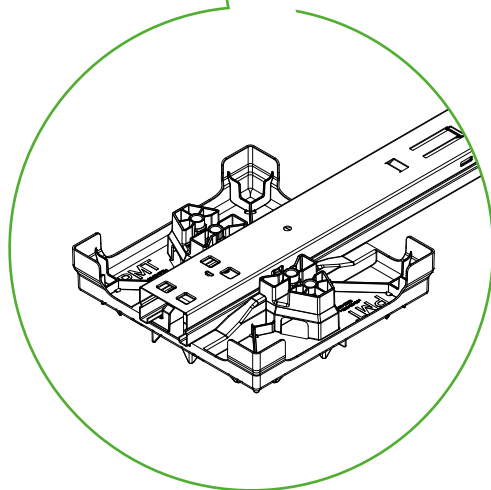


Place the already snapped in Swift Rail Short with Swift Rail Connector and Swift Rail on the EasyPlates Gravel and snap them in the cut-outs provided. The EasyPlates Gravel can also be installed at the same time individual Swift components are assembled.



Attention!

Consult the current project report for the exact installation of the EasyPlates Gravel.

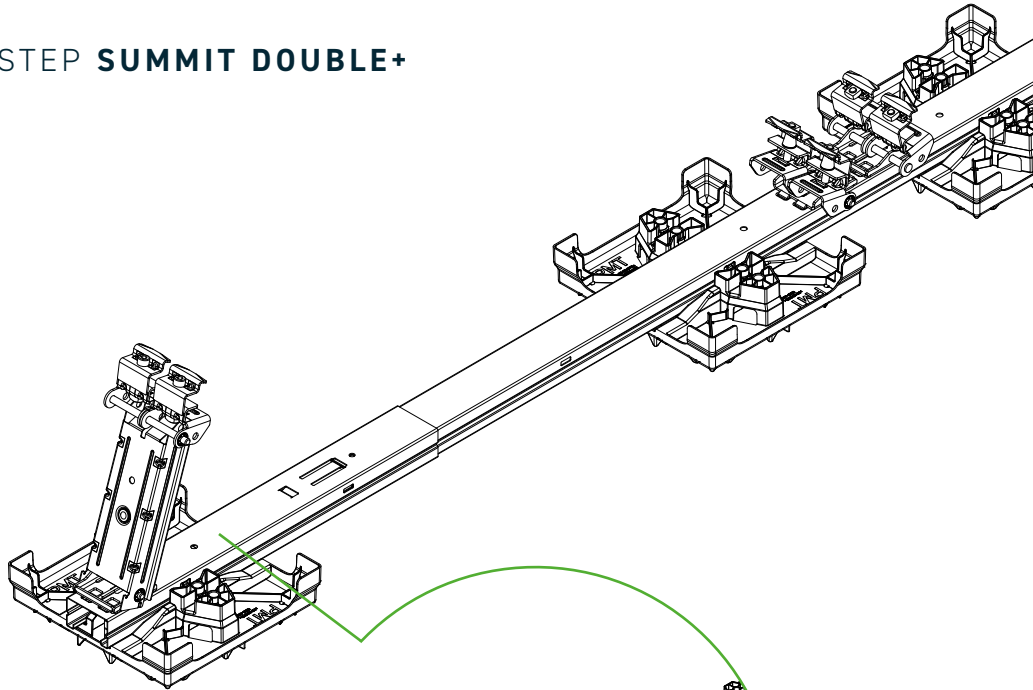
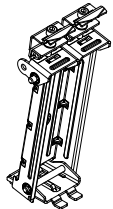


2

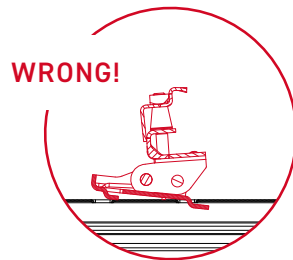
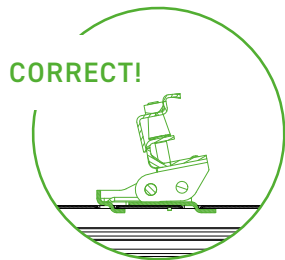
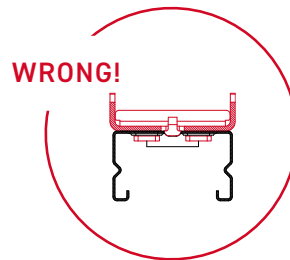
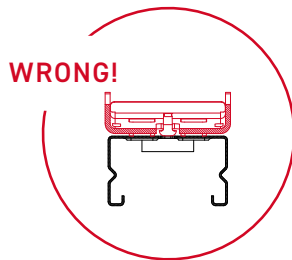
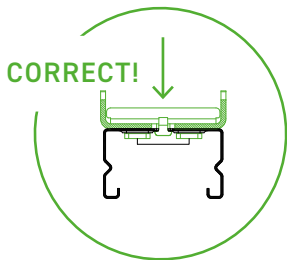
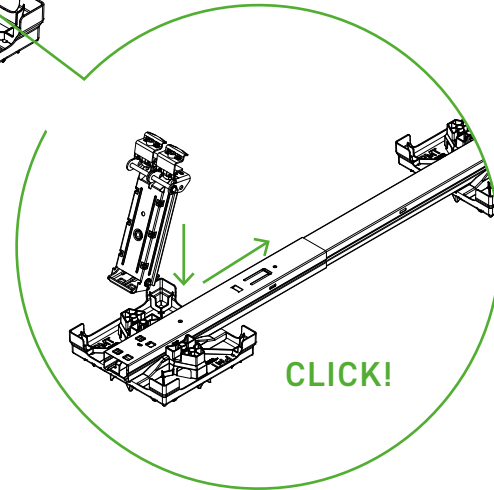
OPTIONAL INSTALLATION STEP **SUMMIT DOUBLE+**

Component

Summit Double+



Press the Summit Double+ with the locking lugs vertically into the recesses of the Swift Rail Short and push it towards the middle of the rail until you hear a click.



Attention!

Check the snap-lock joint to ensure it fits perfectly. When assembling, ensure that all 4 locking tabs are inserted into the recess provided and that the hammer head engages in the corresponding T-recess. Apply light pressure to the hammer head to ensure that it assumes its final position.

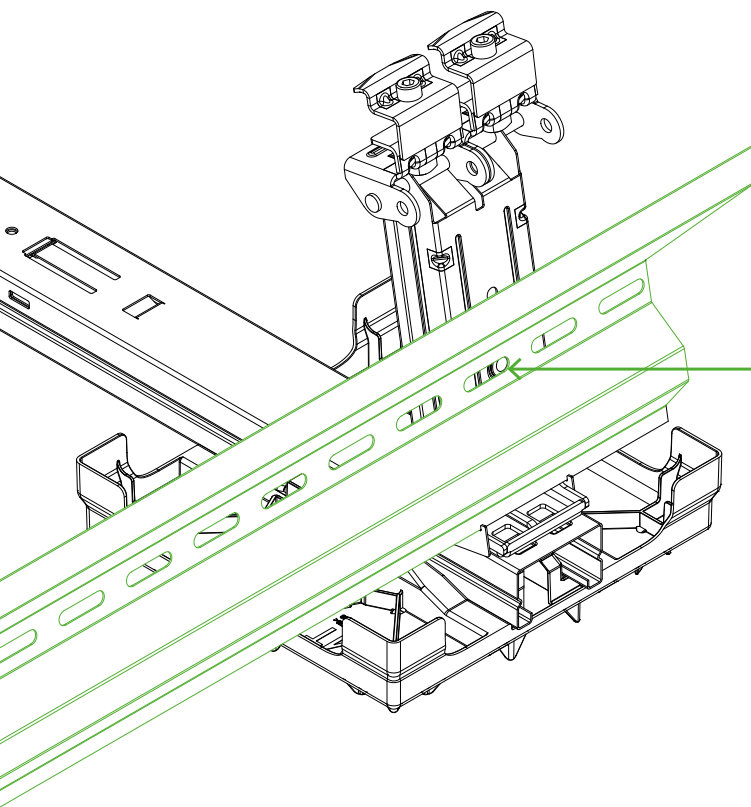
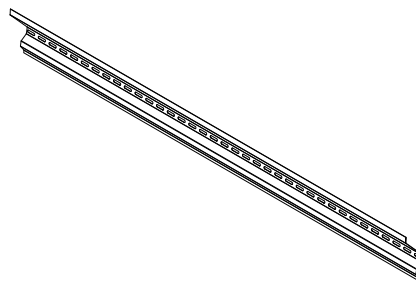
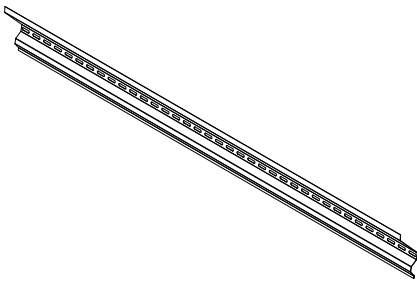
3

OPTIONAL INSTALLATION STEP **SWIFT SHIELD LINK & SWIFT SHIELD EDGE**

Component

Swift Shield Link

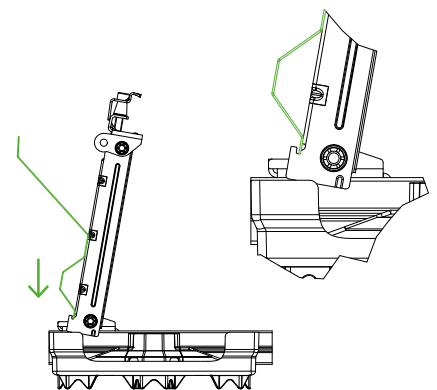
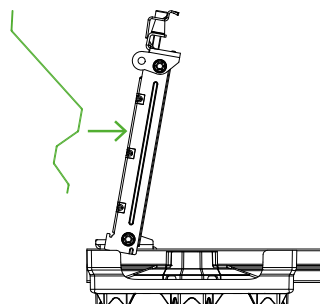
Swift Shield Edge



Attention!

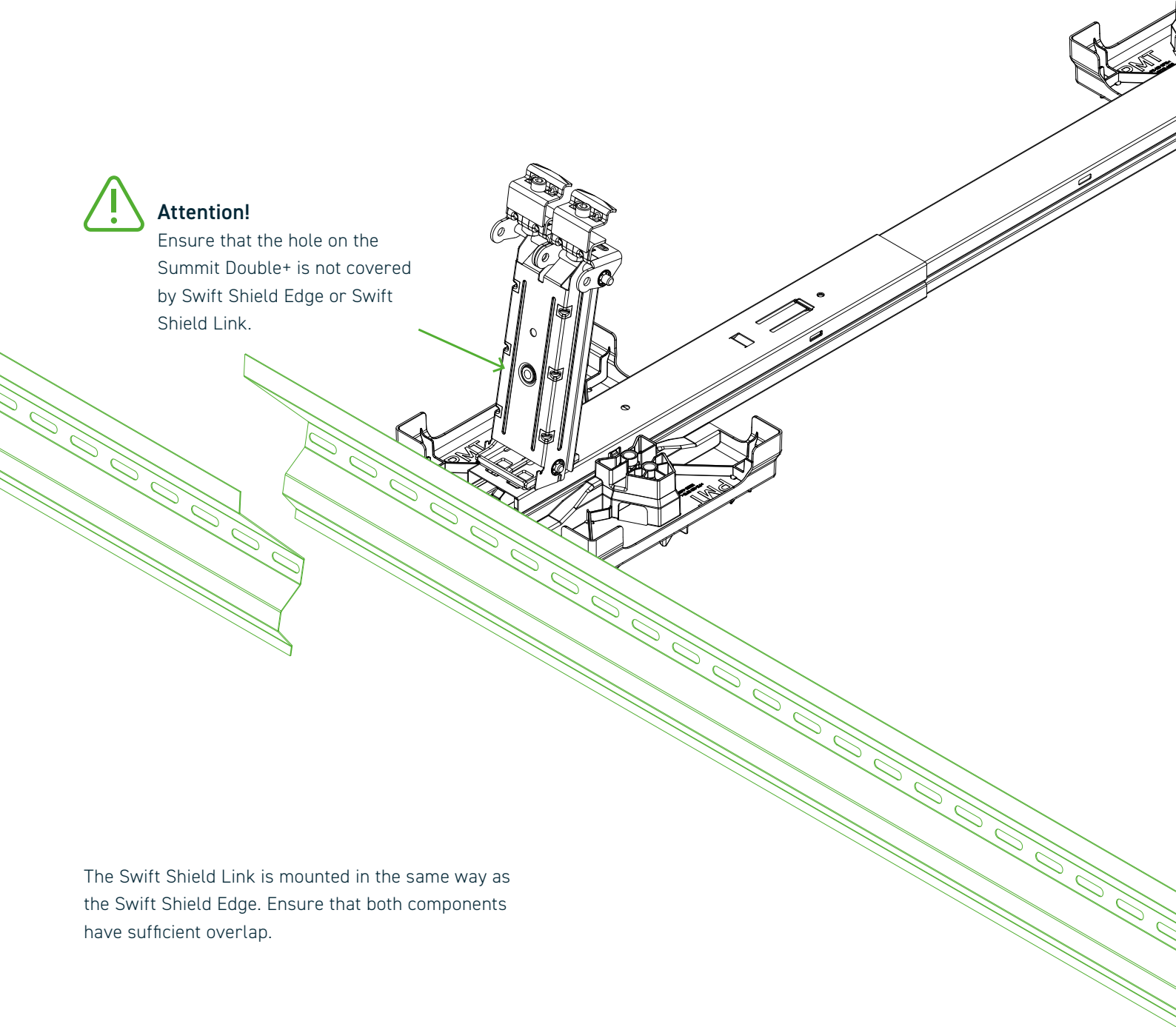
Ensure that the hole on the Summit Double+ is not covered by Swift Shield Edge or Swift Shield.

Place Swift Shield Edge or Swift Shield Link on the back of the Summit Double+ and slide it down into the cut-out provided.



**Attention!**

Ensure that the hole on the Summit Double+ is not covered by Swift Shield Edge or Swift Shield Link.



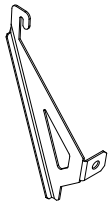
The Swift Shield Link is mounted in the same way as the Swift Shield Edge. Ensure that both components have sufficient overlap.

3

OPTIONAL INSTALLATION STEP **SWIFT SHIELD BRACKET**

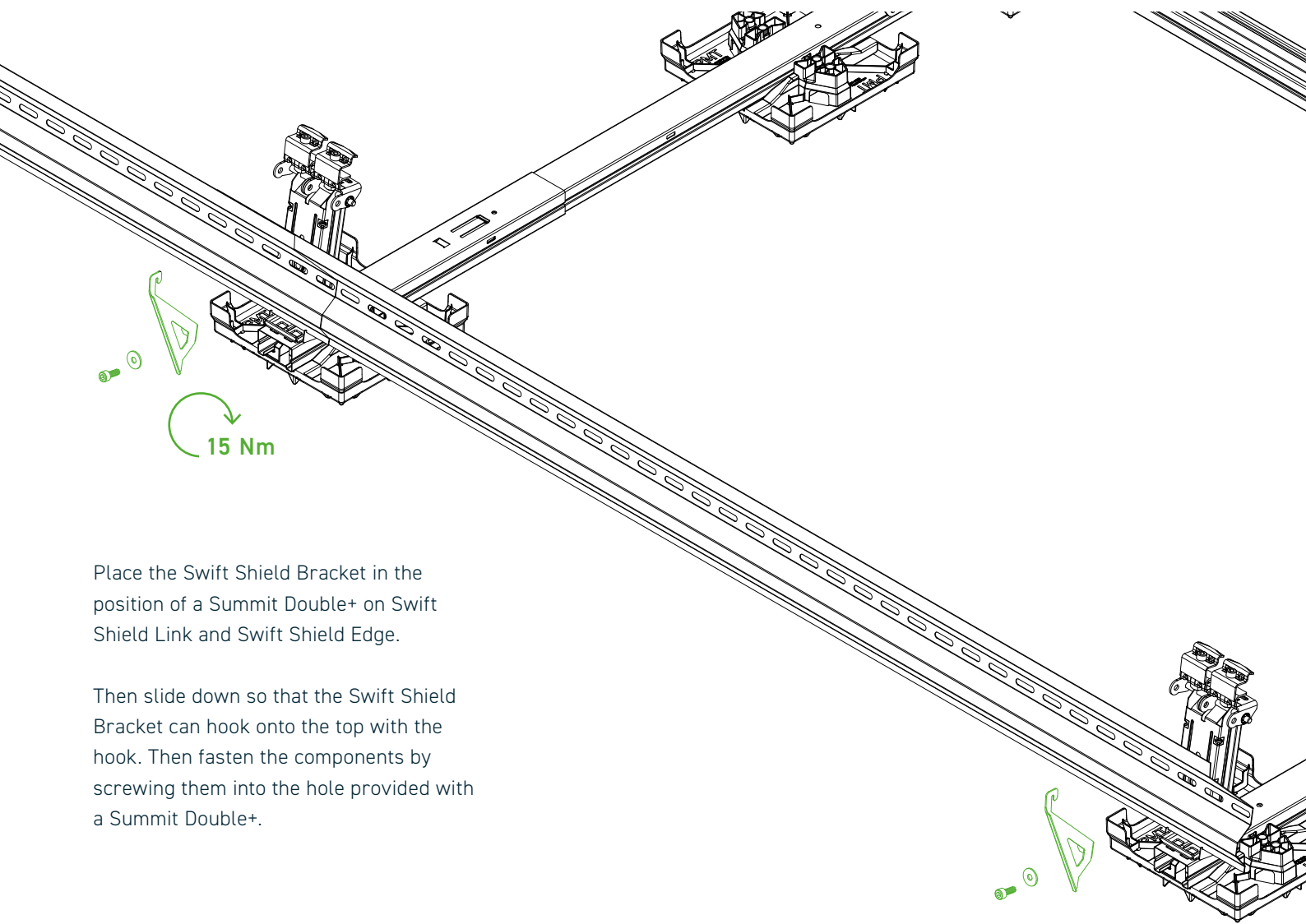
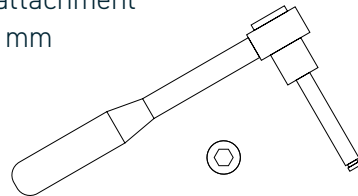
Component

Swift Shield Bracket



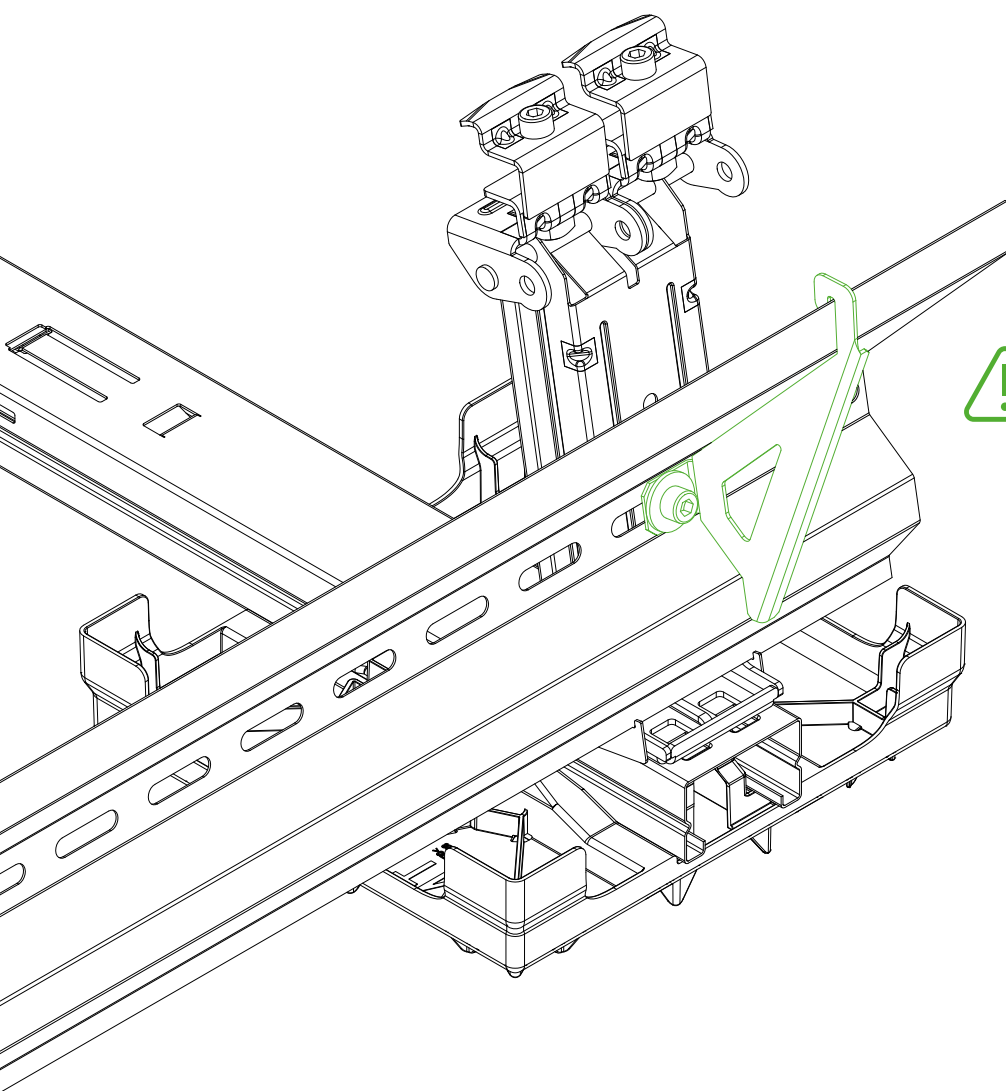
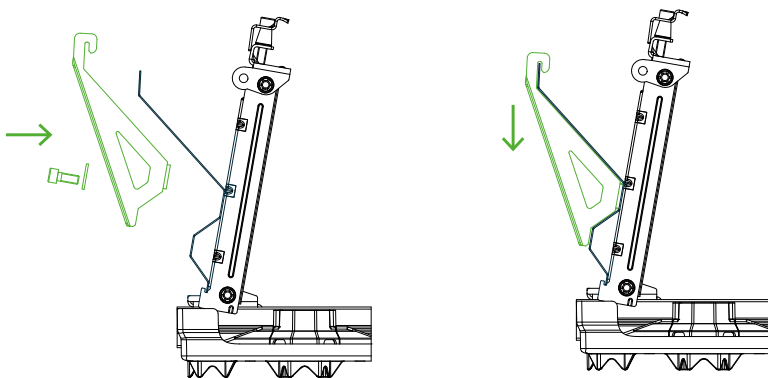
Required tools

Torque-wrench with attachment
Hexagon socket SW 6 mm



Place the Swift Shield Bracket in the position of a Summit Double+ on Swift Shield Link and Swift Shield Edge.

Then slide down so that the Swift Shield Bracket can hook onto the top with the hook. Then fasten the components by screwing them into the hole provided with a Summit Double+.



Attention!

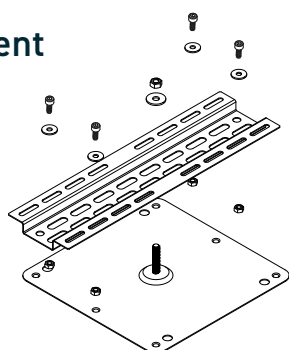
Ensure that when attaching Swift Shield Edge or Swift Shield Link, the hole on the Summit Double+ is not covered so that a Swift Shield Bracket can be attached there.

4

OPTIONAL INSTALLATION STEP **RIDGE CONNECTOR**

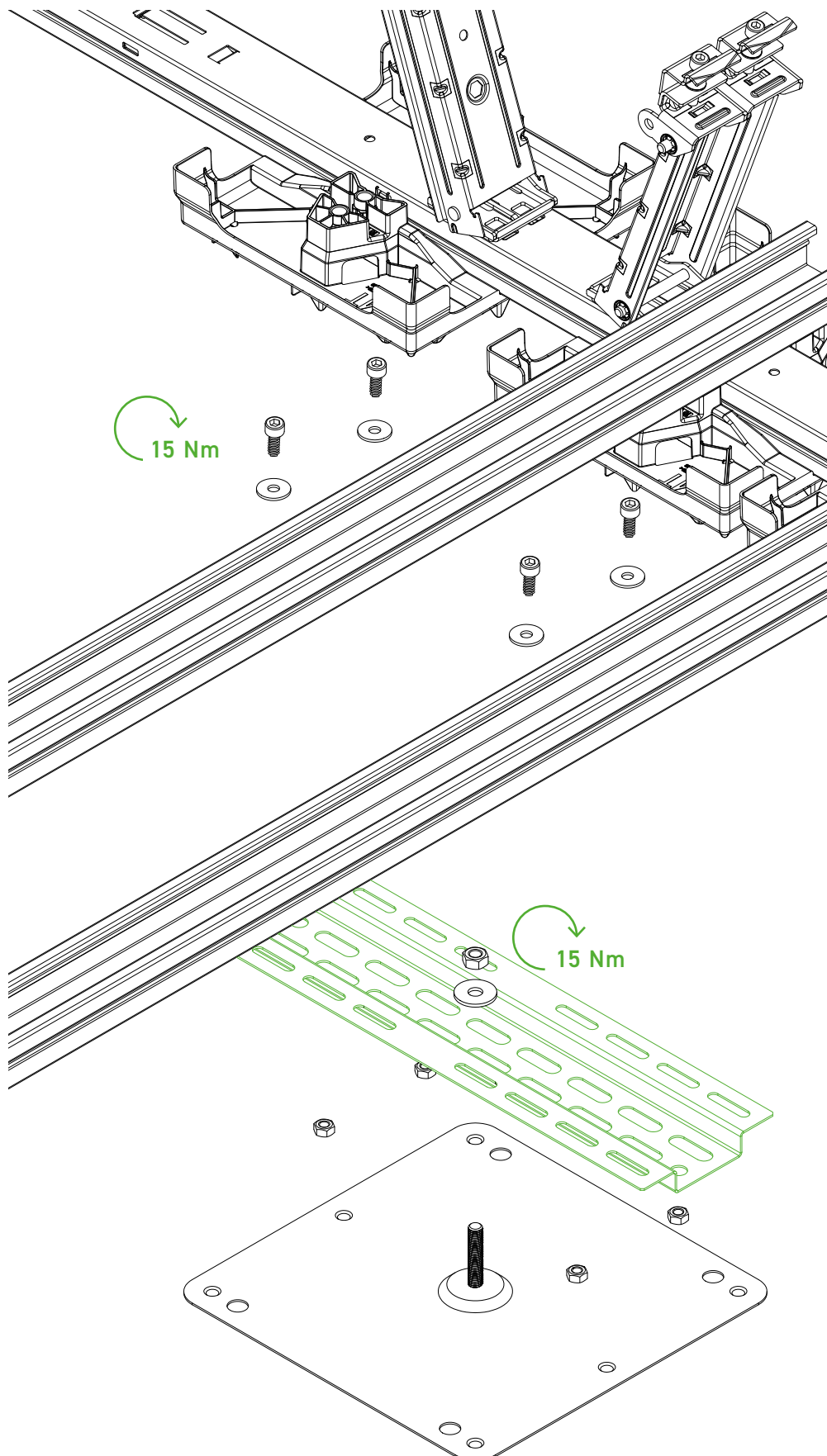
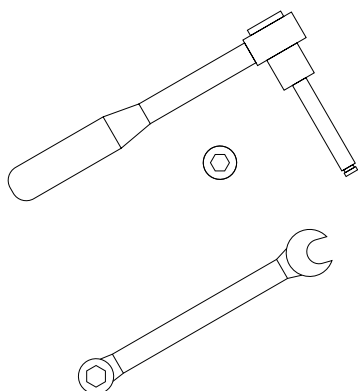
Component

Stud Link



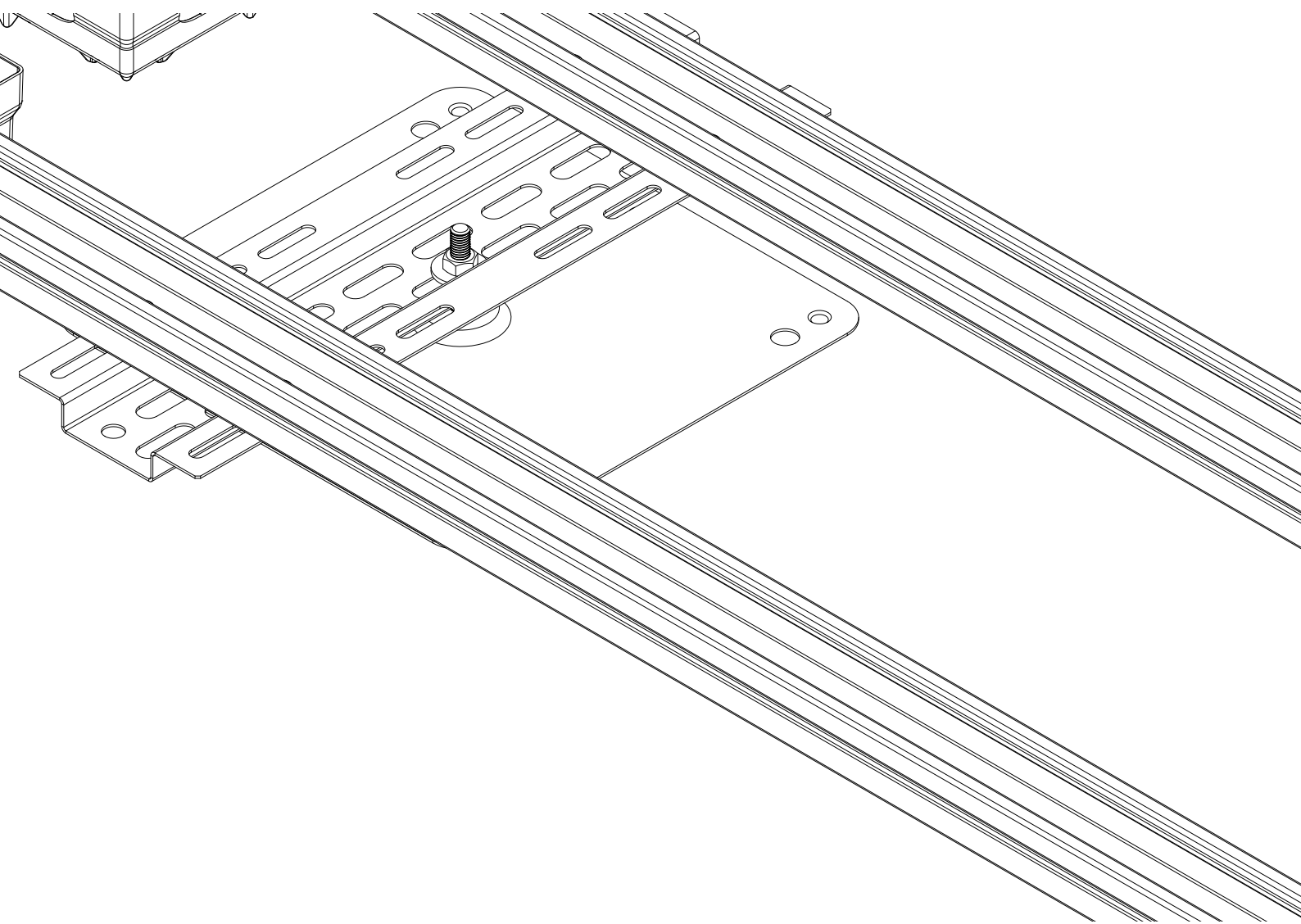
Required tools

Torque-wrench with attachment
Hexagon socket SW 6 mm
and open-end wrench
SW 16 mm + SW13 mm



The Stud Link attachment points are located on the Row Connector Edge or Row Link Edge and should be fitted before the Stud Link is assembled. The Stud Link connection should be fixed as close as possible to a rail.

The Stud Link is aligned centrally and pushed over the threaded bolt.

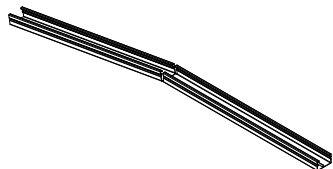


5

OPTIONAL INSTALLATION STEP **ROW RIDGE**

Component

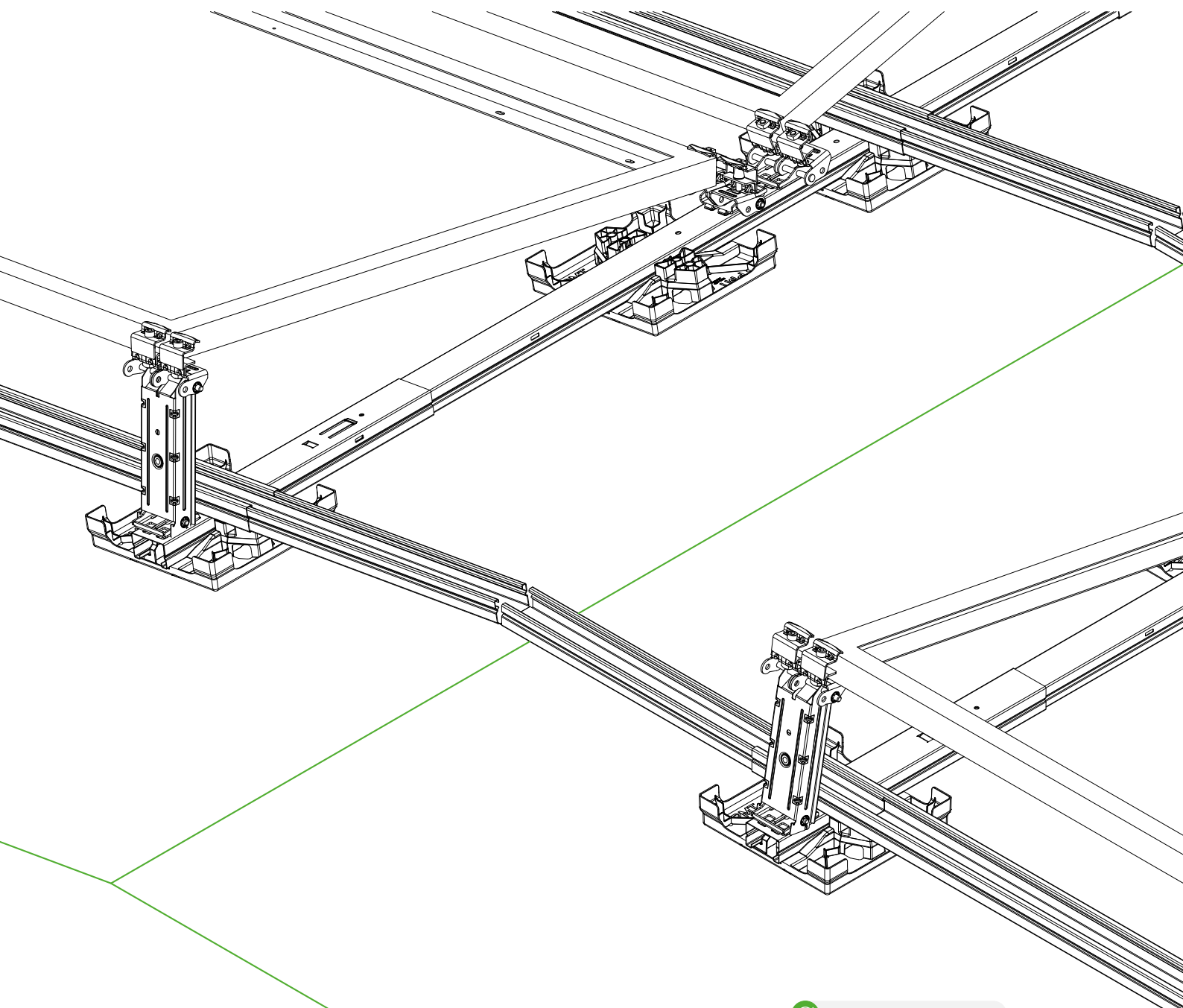
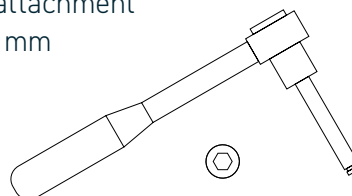
Row Ridge



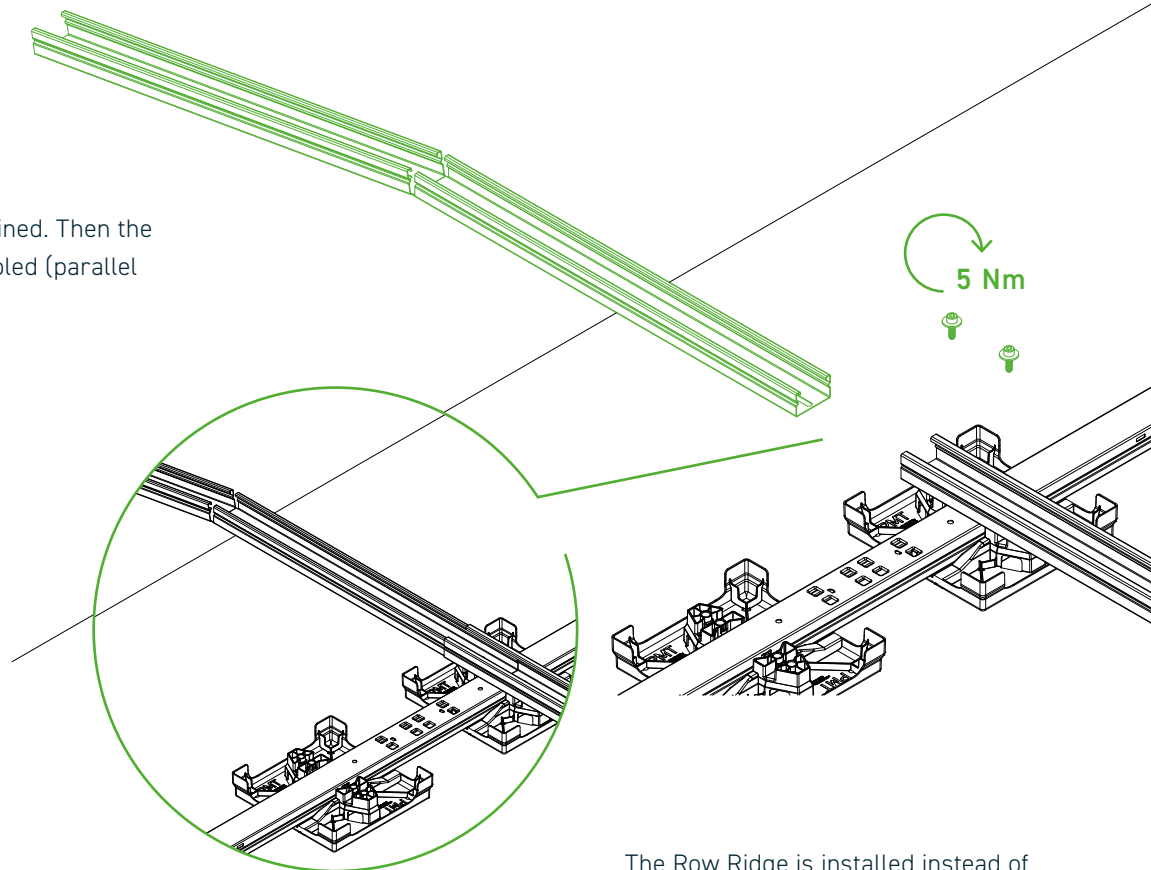
Required tools

Torque-wrench with attachment

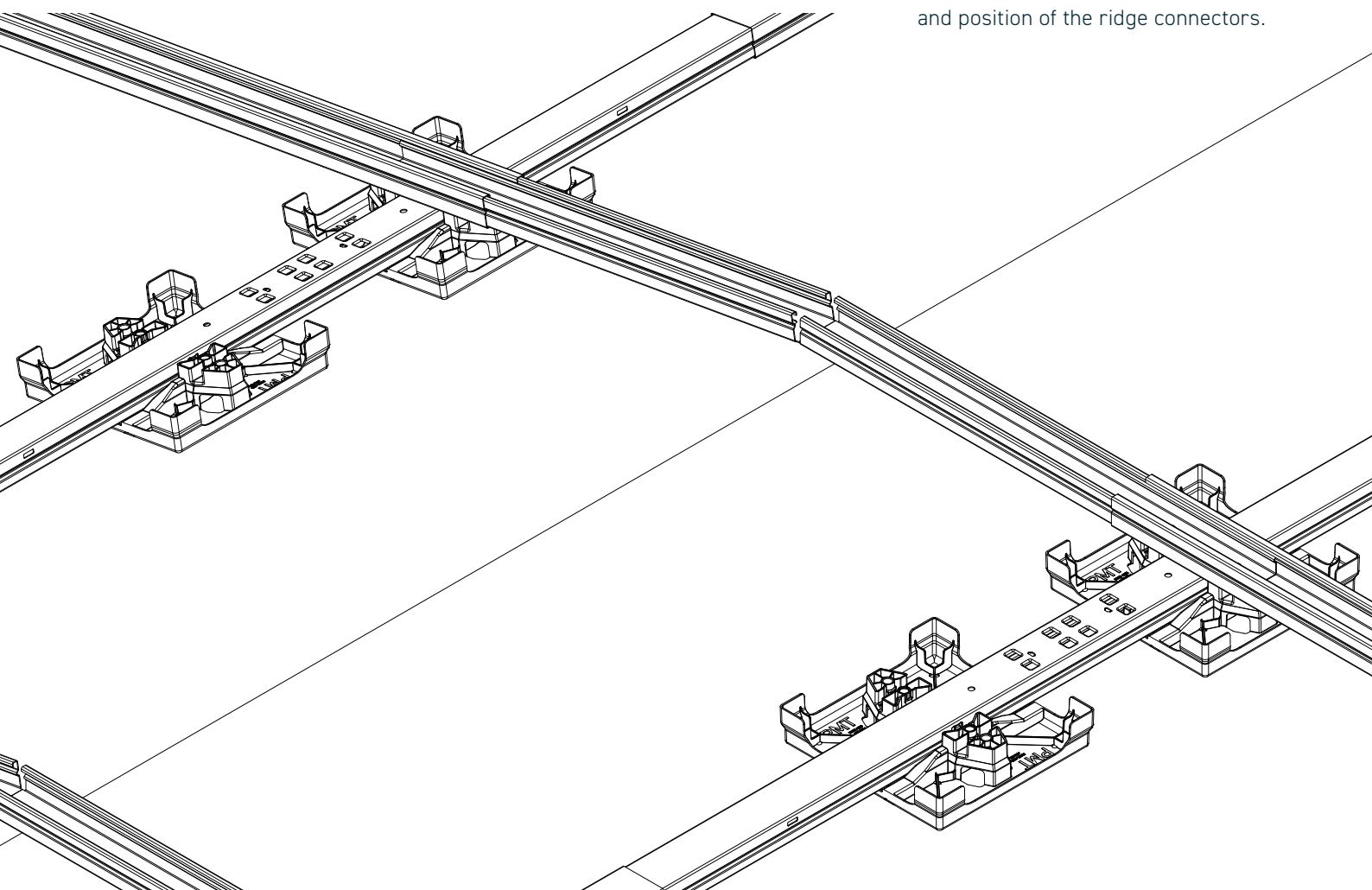
Hexagon socket SW 6 mm



First, the ridge line is determined. Then the Swift Rail profiles are assembled (parallel to the ridge).



The Row Ridge is installed instead of a Row Link. The structure should be assembled evenly on both sides to prevent lopsided loading and thus slipping. Always refer to the current project documents for the location and position of the ridge connectors.

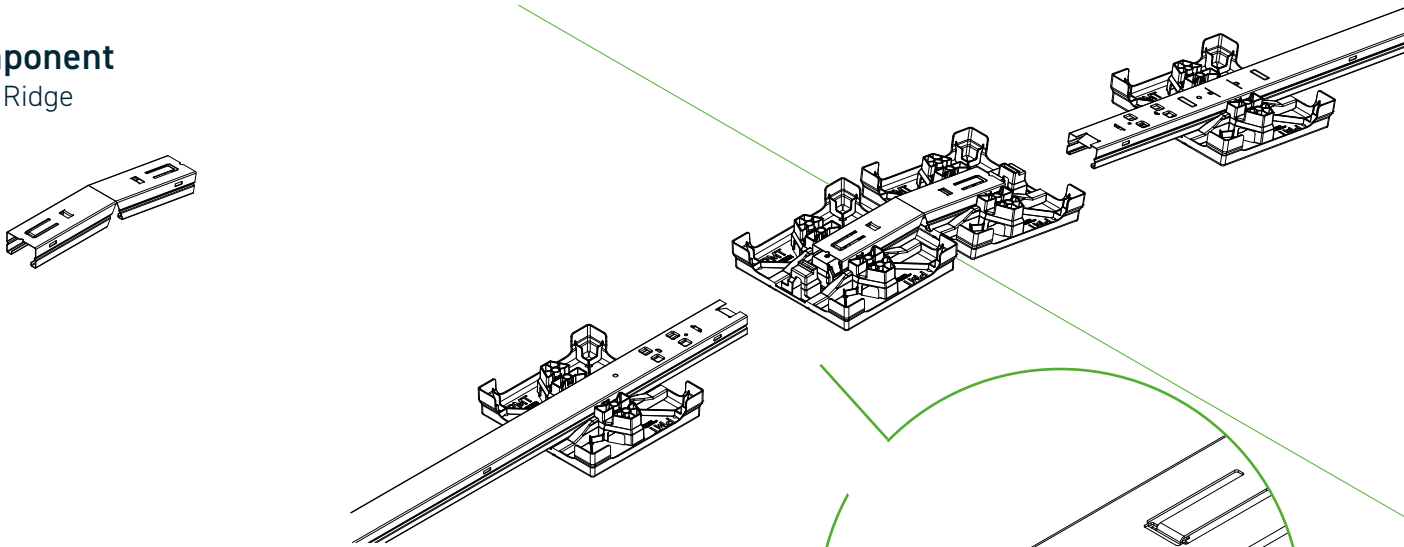


6

OPTIONAL INSTALLATION STEP **SWIFT RIDGE**

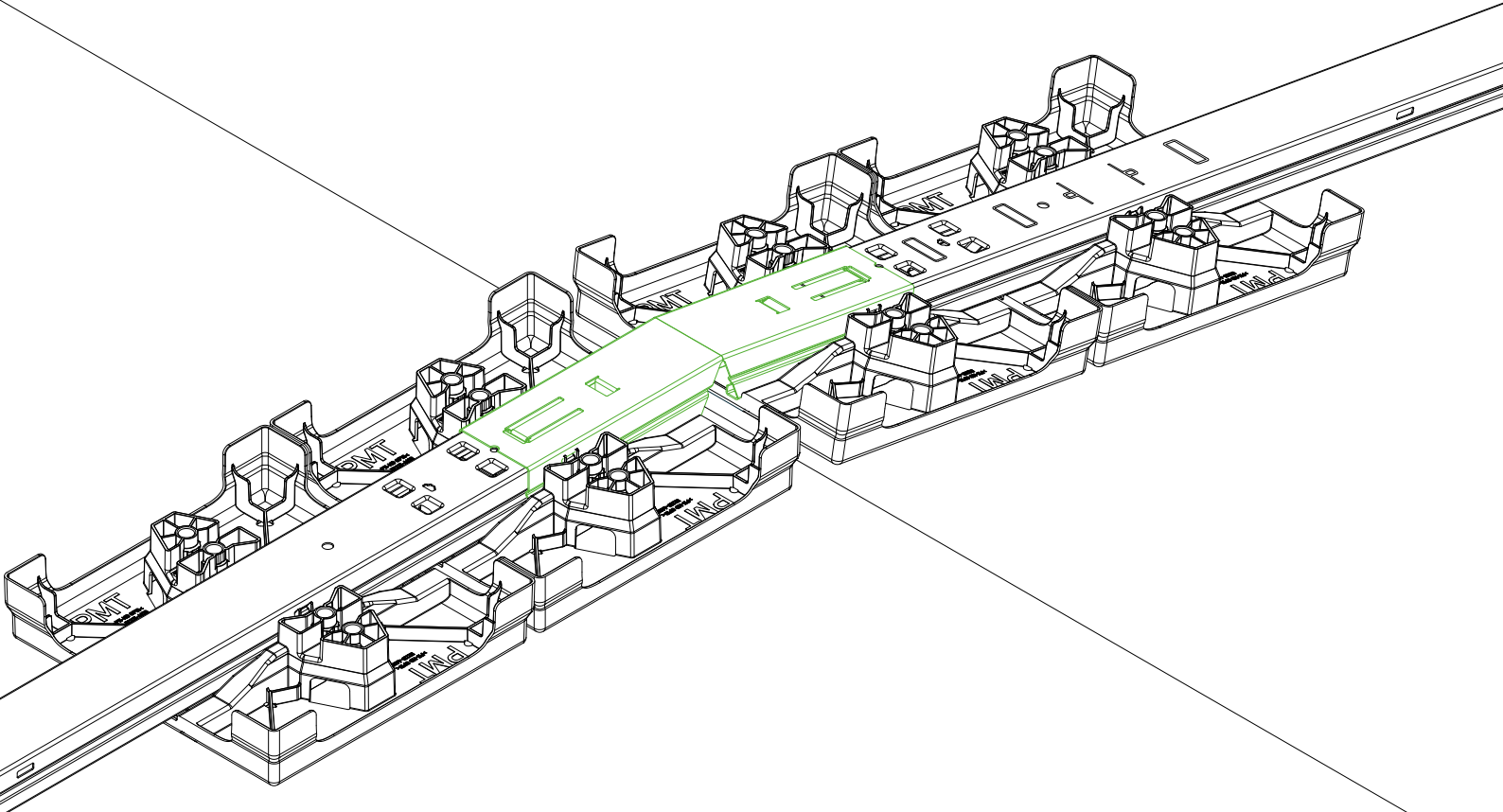
Component

Swift Ridge



First, the ridge line is determined.

Then the Swift Rail profiles are assembled and the Swift Ridge is installed at the end of the Swift Rail Short. The structure should be assembled evenly on both sides to prevent lopsided loading and thus slipping. Always refer to the current project documents for the location and position of the ridge connectors.

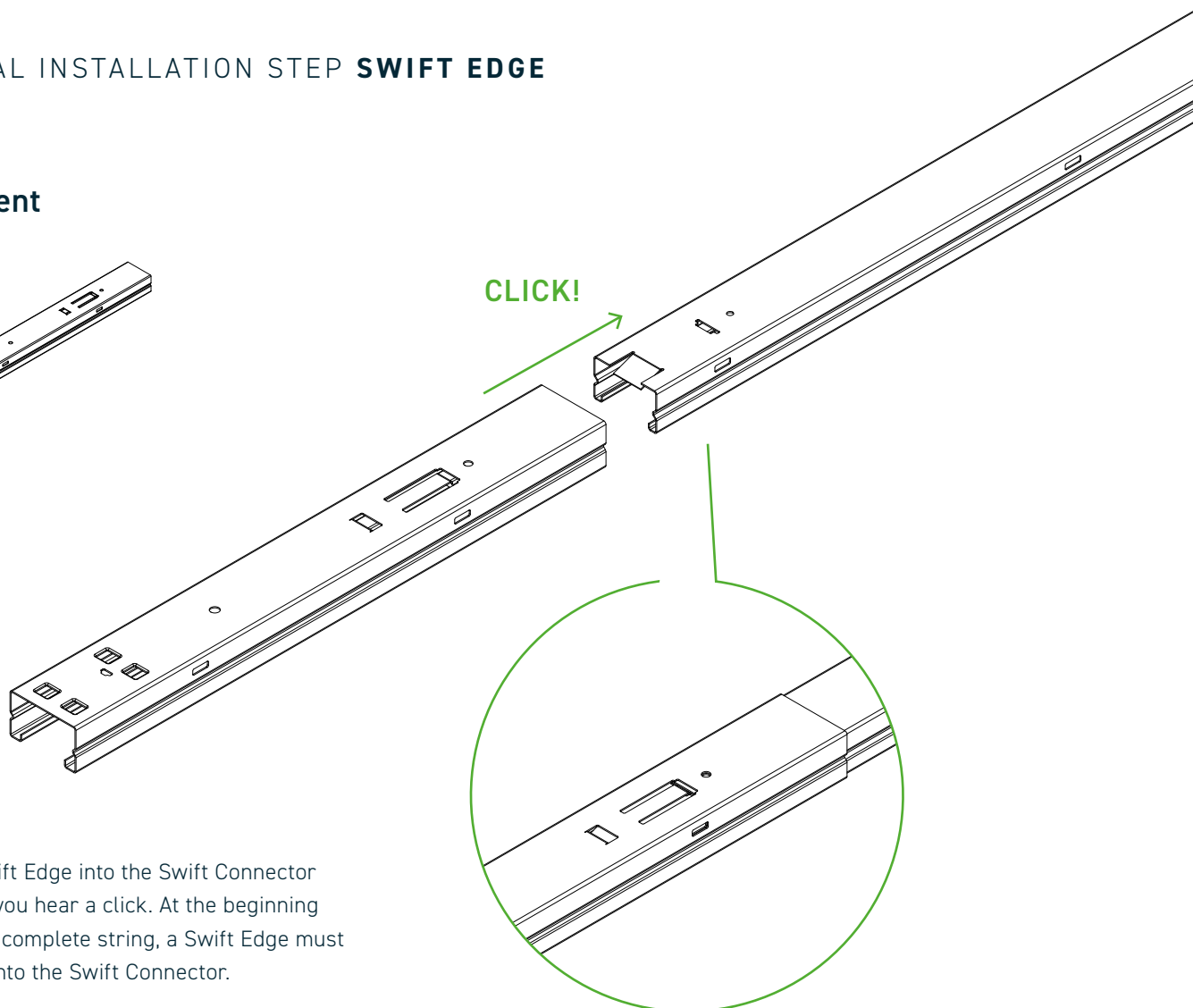
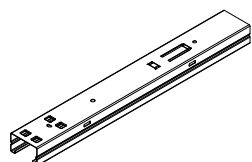


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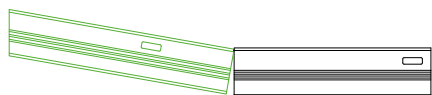
OPTIONAL INSTALLATION STEP **SWIFT EDGE**

Component

Swift Edge



Slide the Swift Edge into the Swift Connector profile until you hear a click. At the beginning and end of a complete string, a Swift Edge must be pushed onto the Swift Connector.



PMT tip

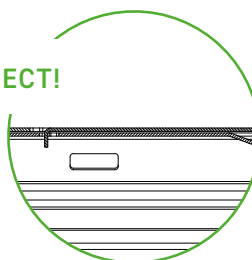
Place the Swift Edge at a slight angle to the profile of the Swift Connector and push it in with a tilting movement.



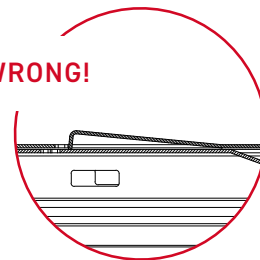
Attention!

Check the snap-lock joint for strength and to ensure it fits perfectly.

CORRECT!



WRONG!



Final Examination



Final Examination

- Check whether the entire system and all components have been installed according to the current project report.
- It must be checked whether all screws are inserted at the intended points and tightened with the specified tightening torque.
- Information on the tightening torque can be found in the assembly instructions or on the packaging. Attention! These are safety-relevant and can lead to considerable damage if not observed.
- Check whether all ballast assembly has been performed with the specified weights. The information can be found in the current project report. Make sure that slipping, tilting or wobbling of the ballast elements is permanently eliminated. Attention! These are safety-relevant and can lead to considerable damage if not observed.
- Check that all click-connections are locked correctly.

Maintenance

- The upper and lower limits of the tightening torque of the screw connections must be checked regularly as part of the maintenance (maintenance interval at least once a year; observe the maintenance protocol).
- The recommendations for maintenance routines of the PMT X118 system due to thermal expansion must be observed.

Warranty and Product Liability

Please note that a product warranty is only granted in accordance with our warranty conditions if all safety and system instructions have been complied with and the system has been installed properly.

The warranty conditions can be found at pmt.solutions/downloads/.

Service Hotline

+49 9225 9550 0

We are happy to advise you.

Premium Mounting Technologies GmbH & Co. KG
Industriestr. 25
D-95346 Stadtsteinach

T +49 9225 9550 0
F +49 9225 9550 999
info@pmt.solutions

www.pmt.solutions



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