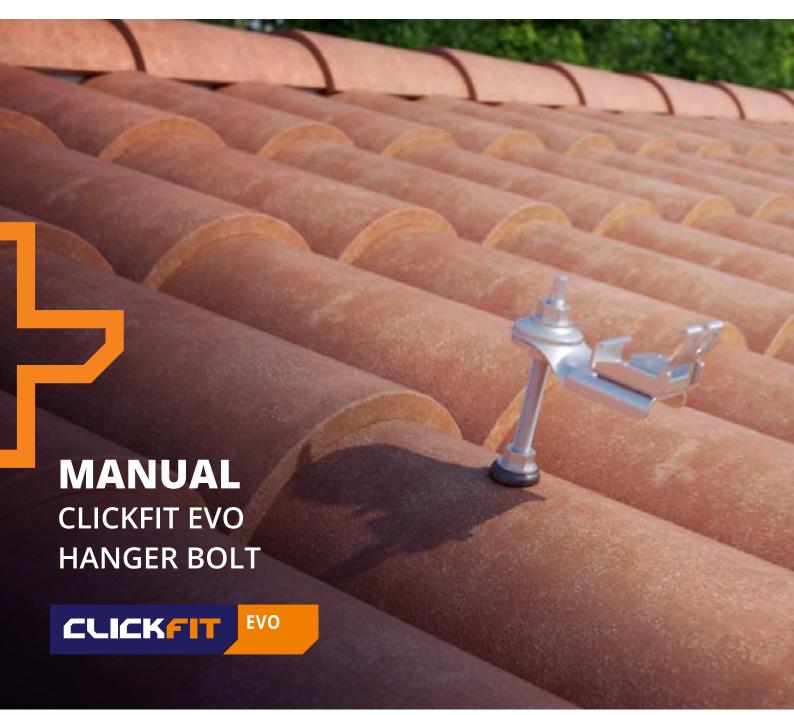






MEN EPDM



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# INTRODUCTION

### **ABOUT THIS DOCUMENT**

In this manual you will find the installation instructions for the ClickFit EVO mounting system for solar panels on Arabic tiles, bitumen or EPDM roof material, corrugated iron roofs and sheet metal roofs.

The system is suitable for mounting solar panels in portrait and landscape orientation.

These instructions are addressed at qualified technical personnel.

You can download the latest version of this manual from www.esdec.com.

### **OTHER RELEVANT DOCUMENTS**

When installing the ClickFit EVO mounting system, you will need the following documents:

- The project plan, which you can create in the calculator at https://www.esdec.com/en/calculator.
- The installation manuals for the solar panels, inverters and any other components.

During the installation of the mounting system, it is important to adhere to the installation manual, the installation manual of the components, and the accompanying standards to prevent accidents. Pay special attention to (local) standards, regulations and legislation (among others):

- Local Building Regulations (latest version)
- Health and Safety at Work etc Act 1974
- · Health and Safety in Roof work HSE
- Eurocodes 0 (EN 1990 Structural Design)
- Eurocodes 1 (EN 1991 (Influences on structures)
- HD-IEC 60364 series Electrical installations for low voltage
- EN-IEC 62305-2 Protection lightning Risk Management
- MIS 3002 The solar PV standard
- MCS012 Product Certification Scheme Requirements: Pitched Roof Installation Kits

### **EARTHING AND BONDING**

Our ClickFit EVO systems are VDE certified for corrosion and bonding. According to the electrical standard HD-IEC 60364 – chapter 712, functional bonding for inverter's isolation check is necessary.

In the Esdec ClickFit EVO Series functional bonding is achieved through the EVO universal module clamp for the module frames and EVO rails. The final functional bonding connection is made by proper mounting of a separate bonding cable onto the EVO rail and an adequate bonding connection with the inverter or earthing contact.

For detailed instructions on grounding and bonding, consult the electrical standard HD-IEC 60364 and any local regulations. Please, follow the instructions of the inverter's manual. This operation needs to be done by a certified electrician.

### SYMBOLS USED IN THIS MANUAL

A	Warning!	Failure to follow this instruction could result in serious injury or major damage to the product.
!	Caution!	Failure to follow this instruction could result in personal injury or damage to the product.
1	Note	Emphasises an instruction.

# **WARRANTY AND LIABILITY**

### **WARRANTY**

Esdec extends a 20 year product warranty. The warranty is subject to the warranty terms and general terms & conditions of Esdec. These can be found on the <a href="https://www.esdec.com">www.esdec.com</a> website.

### **LIABILITY**

The manufacturer accepts no liability for damage or injury caused by the failure to comply (strictly) with the safety guidelines and instructions in this manual, or by negligence during installation of the product and the accessories listed in this document.

Esdec reserves the right to change this document without notice.

# PRODUCT INFORMATION

### **INTENDED USE**

The ClickFit EVO mounting system is designed for mounting solar panels on pitched roofs. With this mounting system, solar panels can be positioned on the roof either with the short side at the bottom (portrait) or with the long side at the bottom (landscape).

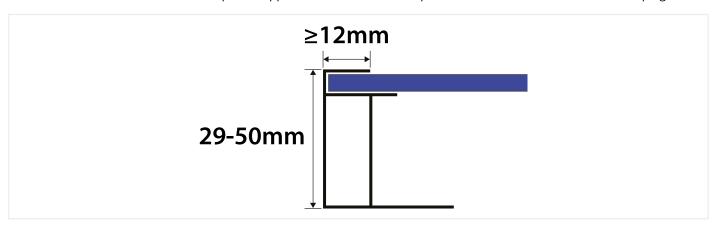
### **IMPROPER USE**

The mounting system is not suitable for use on types of roof other than the one specified.

### **COMPATIBLE SOLAR PANEL FLANGE DIMENSIONS**

The universal module clamp is suitable for solar panels with a frame height between 29-50mm and a frame width of at least 12mm, where a sufficient clamping force can be applied.

Check the documentation of the solar panel supplier if the intended solar panel can withstand the loads and clamping force.



# **SPECIFICATIONS**

Orientation of solar panels	Portrait and landscape	
Maximum area of solar panels	3.92m <sup>2</sup>	
Maximum field size	For horizontal and vertical rails: 15m per segment	
Rail protrusion range	90-350mm	
Dilatation gap	125mm	
	Bitumen (insulated and non-insulated) EPDM (insulated and non-insulated)  1 The thermal effect of some types of EPDM and bitumen roofing can have a negative effect on the waterproofing, causing it cannot be guaranteed on every roof. Consult the roofing supplier to determine whether the ClickFit EVO hanger bolts can be used without taking additional steps.	
Roof material	Corrugated sheets  ! On a corrugated roof with standard corrugation type 177/51 (NEN EN 494), use the ClickFit EVO corrugated sheet bracket (article number 1008090). At <a href="https://www.esdec.com">www.esdec.com</a> you will find the corresponding manual.	
	Arabic tiles	
	Sheet steel	
	Purlins	
Roof structure	Trusses	
	Engineered wood boards	
Roof pitch	2-60°  1 At an inclination angle of <10°, the self-cleaning effect of the panel is affected.	
Maximum roof height	① Subject to Eurocode guidelines and national additions. Use the calculator to calculate the possibilities of your project.	
Edge zone	30cm distance to the ridge, 30cm to the side of the roof and 30 cm to the gutter.	

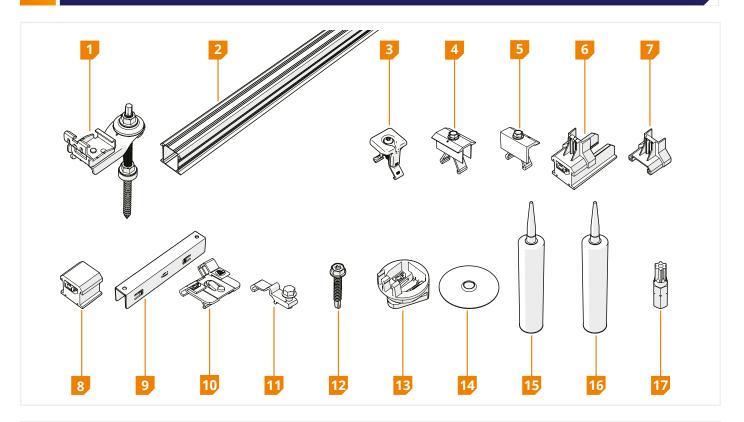
<sup>&</sup>lt;sup>1)</sup> Ensure that the module frame is compatible with the ClickFit EVO clamps before installation.

- ! Enter the data in the calculator, so you are sure of choosing the right system for the terrain category, snow loads and wind zone that applies to your project.
- 1 Depending on the roof and the result obtained from the calculator, you can lay several segments with solar panels next to each other. Always leave a minimum of 12mm of space between segments to allow for expansion of the roof.
- 1 If your project has different specifications than these, please contact Esdec.

<sup>&</sup>lt;sup>2)</sup> Always consider the right measures related to fire spread and compartmentalization. This might influence the modules segment size.

# **SYSTEM AND APPLICATION**

# 1 COMPONENTS



COMPONENT	ARTICLE NUMBER
1 ClickFit EVO Hanger bolt	100801 _
2 ClickFit EVO Mounting Rail	10081
3 ClickFit EVO Module Clamp	1008020(-B)
4 ClickFit EVO 60 Mid Clamp Black	1008021-B
5 ClickFit EVO 60 End Clamp Black	1008022-B
6 ClickFit EVO 35 Mounting Rail End Cap	1008060(-B)
7 ClickFit EVO 35 End Clamp Support	1008065(-B)
8 ClickFit EVO End Cap without end clamp support	1008066(-B)

ACCESSORY	ARTICLE NUMBER
9 ClickFit EVO Mounting Rail Coupler	1008061
10 ClickFit EVO MLPE Clip Light Weight	1008067
11 ClickFit EVO MLPE Clip Heavy Weight	1008068
12 ClickFit EVO Self-drilling screw 6,3x42mm SW10/T30	1003016
13 ClickFit EVO mounting set	1008064
14 Hanger bolt washer Inox 80mm	1003070
15 Sealing kit for bitumen roofing	
<b>16</b> Kit for EPDM Roofing	
17 ClickFit EVO Screw Bit Torx 30	1008069

**(1)** Check that the correct components are present in the required numbers according to the project plan generated by the calculator.

6

# APPLICATION

- ① Use the calculator to determine the correct rail orientation for your project. The calculator takes into account, for example, the type of roof covering and the structure supporting the roof.
- 1 Check the roof type and the roof structure type. Is it a roof with purlins or trusses, or with solid engineering wood boards?
- **2** Look up the type of roof covering of your project in the table.
- **3** Check the table for the recommended orientation of the solar panels and rails.

ROOF MATERIAL	TRUSSES	PURLINS	ENGINEERED WOOD BOARDS
BITUMEN INSULATED	Portrait panels and horizontal rails	Landscape panels and vertical rails	Portrait panels and horizontal rails Landscape panels and vertical rails
BITUMEN UNINSULATED	×	×	Portrait panels and horizontal rails Landscape panels and vertical rails
EPDM (INSULATED AND NON-INSULATED)	×	×	Portrait panels and horizontal rails Landscape panels and vertical rails
ARABIC TILES	×	×	Portrait panels and horizontal rails Landscape panels and vertical rails
CORRUGATED SHEETS	×	Portrait panels and horizontal rails Landscape panels and vertical rails	×
STEEL ROOF TRAPEZOIDAL	×	Landscape panels and vertical rails	×
STEEL ROOF CORRUGATED SHEETS	×	Landscape panels and vertical rails	×
STEEL ROOF TILES SHEETS	Portrait panels and horizontal rails	Landscape panels and vertical rails	Portrait panels and horizontal rails Landscape panels and vertical rails

Ensure the threaded part of the Hangerbolt is inserted at least 50mm into the substructure without protruding through.

# **SAFETY**

# PERSONAL PROTECTIVE EQUIPMENT



# **SAFETY WARNINGS AND REGULATIONS**

### Warning!

- ⚠ Installation work should always be carried out by at least two skilled people.
- ⚠ Do not use components from other mounting systems.
- Do not leave out parts.
- Always work according to the current regulations for working on roofs.
- A Do not perform the installation in strong winds, or when the roof is slippery or wet.
- Always work on the roof with fall protection and, if necessary, with safety nets and edge protection.
- A Never stand on or in the gutter.
- Always use a lifting aid or hoisting device when moving heavy equipment.
- Always place ladders on a strong, stable surface.

### Caution!

- Walk as little as possible on the roof. Use an aerial platform, ladder or other solution.
- Never walk on the system or on the solar panels.

# **INSTALLATION**

1 INSPECT THE ROOF.

# **PREPARATION**

	The roof is in good condition.				
	The roof construction has sufficient bearing capacity to support the installation, taking into account wind and snow loads.				
	causing it can	effect of some types of EP not be guaranteed on eve olts can be used without	ery roof. Consult the roof		
2 CH	ECK THE PROJECT	PLAN AND COMPONEN	TS.		
	Check the project	t plan. Is there no project	plan? Then create one in	the online calculator before	ore starting installation.
	Check that all cor	mponents are present (pa	ge 5).		
	Determine the po	osition of the hanger bolts	s. Use the purlins or truss	ses if present.	
3 MA	KE SURE ALL THE	REQUIRED TOOLS ARE	AT HAND.		
6				A CONTRACTOR OF THE PARTY OF TH	
Marke	r or chalk	Brush	Tape measure	Hacksaw	Water pump pliers
				5	
Cordlo	cc ccrowdriver	Torquo wrongh	Ratchet with hexagon	Open and wrongh (2x)	Mastic gun

	Hanger bolt M10	Hanger bolt M12
Drill through roofing material	12.5mm	14mm
Predrill holes in roof structure	5mm	7mm
Hexagon socket	S7	S10
Open-end wrench	S15	S19

Open-end wrench (2x)

Mastic gun

# **TIGHTENING TORQUES**

Cordless screwdriver

Torque wrench

I Always use a torque wrench. Make sure that the bit is correctly and completely inserted in the screw head when tightening, in view of the high tightening torque.

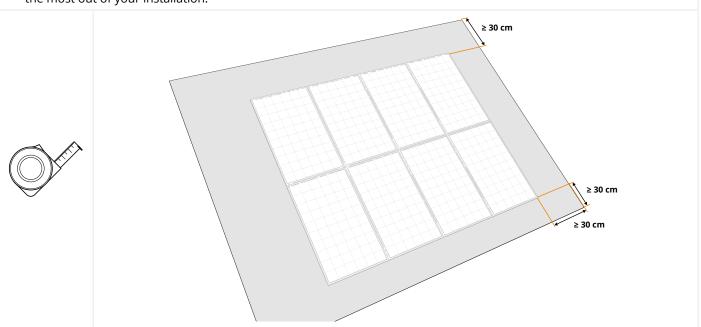
socket S13

Screw	Tightening torque
ClickFit EVO Module Clamp	4.5 Nm
Mounting screw for vertical rail	1 Nm
ClickFit EVO MLPE Clip Heavy Weight	8-12 Nm
ClickFit EVO 60 End Clamp Black	16.5 Nm
ClickFit EVO 60 Mid Clamp Black	16.5 Nm

# 4 CLEAN AND TIDY THE ROOF.

### 5 DETERMINE THE POSITION OF THE SOLAR PANELS ON THE ROOF

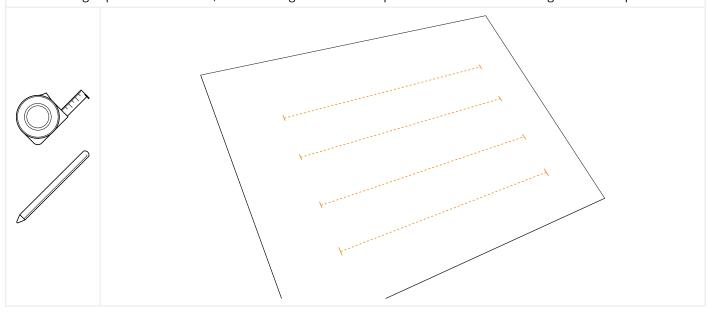
- ⚠ Consider the (local) fire regulations for photovoltaic installations. To mitigate the risk of fire spread, the fire compartments of the object must be respected. The PV system should not be placed over fire partition walls and a minimum distance of 30 cm must be kept. Likewise, it is wise to keep space in relation to skylights, lighting globes, corners and potential fire hazards.
- Develop a project plan using the ESDEC calculator and adhere to its guidelines. Access the calculator at <u>calculator</u>. <u>eu.esdec.com</u>.
- I The distance from the edge of solar panels to both the ridge and the gutter must be at least 30cm.
- ! The distance from the solar panels to the side of the roof must be at least 30cm.
- 1 Take into account sunlight and shade over the whole year. If necessary, use a power optimizer or micro inverter to get the most out of your installation.



### 6 DRAW THE LINES AND END POINTS FOR THE MOUNTING RAILS

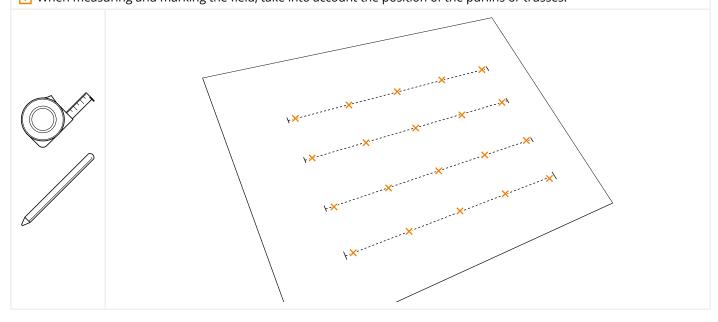
- ① Consult the project plan to determine the position of the mounting rails for your panel.
- 1 Rail lengths can be found in the project plan.

For mounting in landscape orientation, the mounting rails should be placed at around ¼ of the short sides of the panel. For mounting in portrait orientation, the mounting rails should be placed at around ¼ of the long sides of the panel.



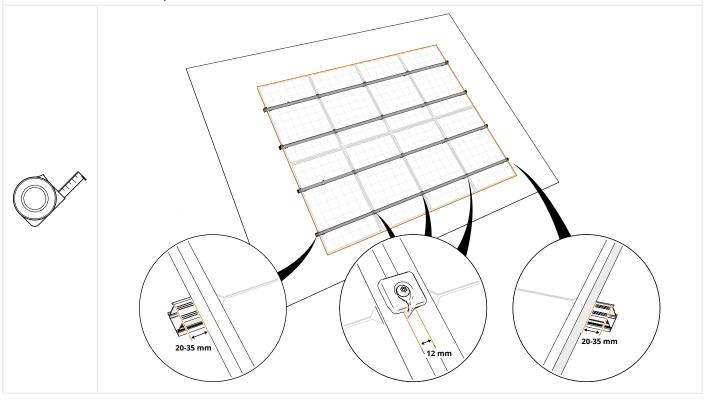
# 7 MARK THE POSITION OF THE HANGER BOLTS.

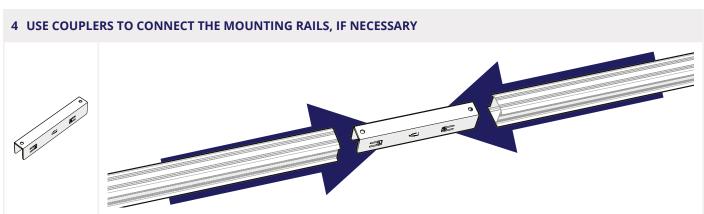
- Preferably use existing screw holes for the installation of the hanger bolts, especially on corrugated roofs. If you use too many screws in a corrugated sheet roof, it means that the roof material may have too little space to compensate for thermal expansion/contraction.
- ① Consult the project plan to determine the position of the hanger bolts for your project.
- ! When measuring and marking the field, take into account the position of the purlins or trusses.



# PREPARING AND SIZING MOUNTING RAILS

- 1 CONSULT THE PROJECT PLAN FOR THE OVERALL LAYOUT OF THE SOLAR PANEL SEGMENTS.
- 2 CALCULATE THE FULL LENGTH OF THE SOLAR PANEL LAYOUT, ACCOUNTING FOR GAPS AND/OR SPACING.
- **3 CALCULATE THE NECESSARY MOUNTING RAIL EXTENSIONS AND ADJUSTMENTS.**
- 1 Measure the solar panels and add 12mm between each solar panel for the universal module clamp (20mm for the ClickFit EVO 60mm clamp). Add 20-35mm on each side for mounting the end clamp and end cap (50-70mm for the ClickFit EVO 60mm clamp).

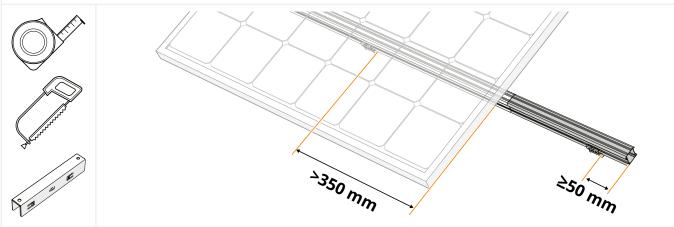




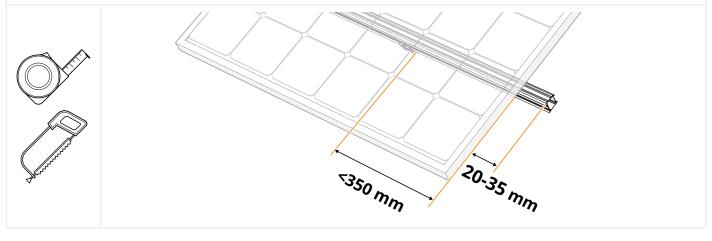
### 5 IF THE OVERHANG IS GREATER THAN 250MM: EXTEND THE MOUNTING RAIL TO THE NEXT RAFTER OR BATTEN.

### **6 CUT THE MOUNTING RAILS TO SIZE.**

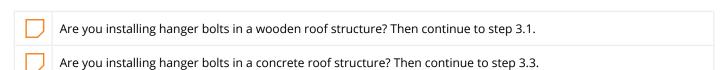
- a. If the calculated overhang of the solar panel is **more** than 250mm beyond the marked position of the last hangerbolt, mark the position of an extra hangerbolt on the nearest rafter or batten. Extend the mounting rail to 50mm beyond the extra hangerbolt.
- 1 The additional 50 mm extension allows for proper fitting of an end cap (art. no. 1008066(-B)) to the mounting rails.



b. If the calculated overhang is less than 250mm beyond the marked position of the last hangerbolt, keep 20-35mm rail length overhang for mounting the end cap (art. no. ) (>40mm for the ClickFit EVO 60mm clamp).

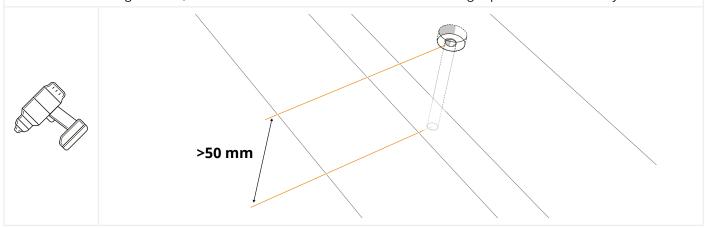


# INSTALL THE HANGER BOLTS



# 1 PREDRILL THE HOLES IN THE ROOF (WOODEN SUBSTRUCTURE: PURLINS/TRUSSES)

- ! The substructure must be at least 50 mm thick.
- Clear the drill hole and surrounding area of drill cuttings.
- For corrugated roof: use the existing screw holes as much as possible. Make sure that you do not place too many screws in a corrugated roof, because then the roof material will not have enough space to work thermally.

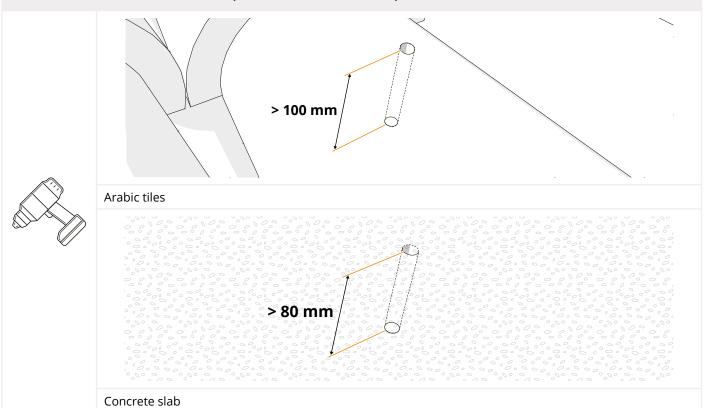


Diameter of hanger bolt	Drill through roofing material	Predrill holes in roof structure
M10	Ø 12,5mm	Ø 5 mm
M12	Ø 14 mm	Ø 7 mm

# 2 TIGHTEN THE HANGER BOLT >50 mm >50 mm

- 1 Make sure you that the hanger bolt goes into the structure straight (at the right angle).
- 1003070) on a bitumen or EPDM roof.
- Continue to step 3.6.

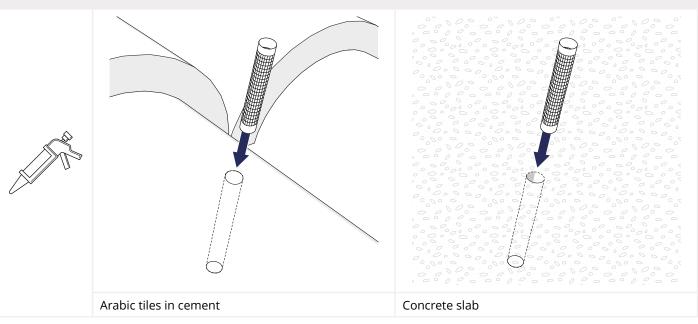
# **3 PREDRILL THE HOLES IN THE ROOF (CONCRETE SUBSTRUCTURE)**

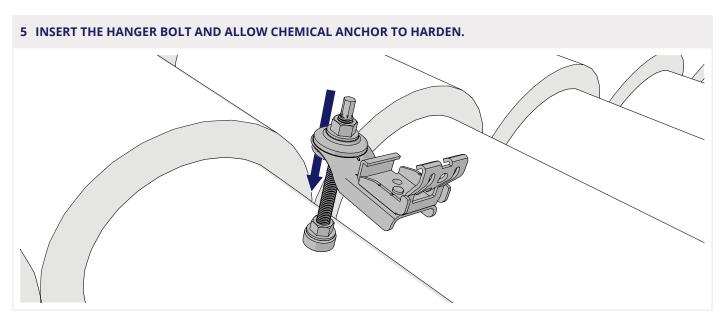


- 1 Pre-drill Arabic tiles at the highest point on the roof tile. This ensures good drainage. The drilling depth is at least 100 mm.
- for a concrete slab, the drilling depth is at least 80 mm.
- ! Clear the drill hole and surrounding area of drill cuttings.

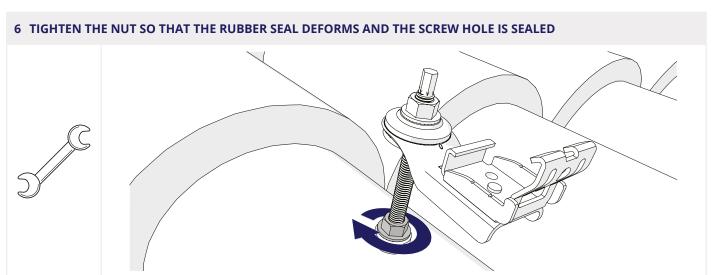
Diameter of hanger bolt	Predrill holes in roof structure
M10	Ø 14 mm
M12	Ø 16 mm

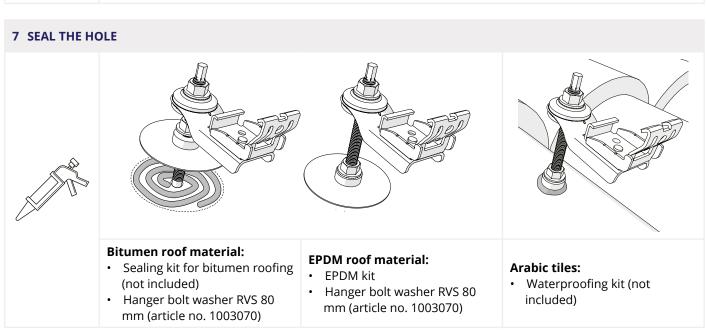
# 4 YOU USE A CHEMICAL ANCHOR TO FIX THE HANGER BOLT. CONSULT THE INSTRUCTIONS FROM THE SUPPLIER OF THE CHEMICAL ANCHOR BEFORE STARTING.





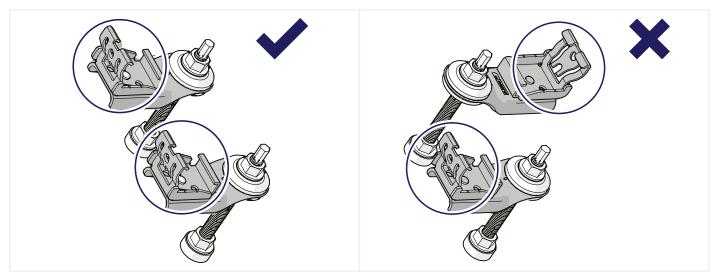
1 Align the hanger bolts with each other.





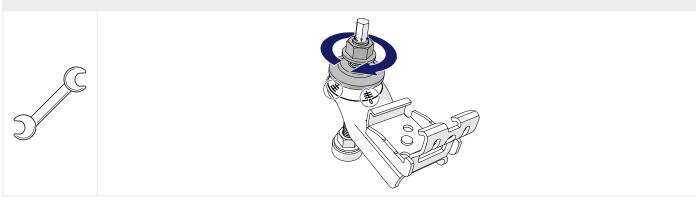
# 

f) For horizontal rail orientation, make sure that the cable tray of the click connections is always pointing downwards.



1 For vertical rail orientation, ensure that the adapters are all placed on the same side of the hanger bolt with the click connections pointing in the same direction.

### 9 TIGHTEN THE NUT ON THE TOP OF THE HANGER BOLT



① Use the cross hairs on the adapter for a good basic position of the EVO click connection and to compensate for any roof irregularities.

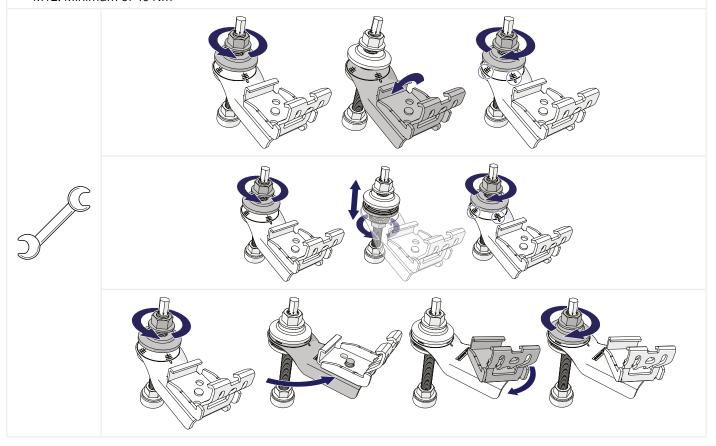
Diameter of hanger bolt	Tightening torque
M10	Minimum of 25 Nm
M12	Minimum of 40 Nm

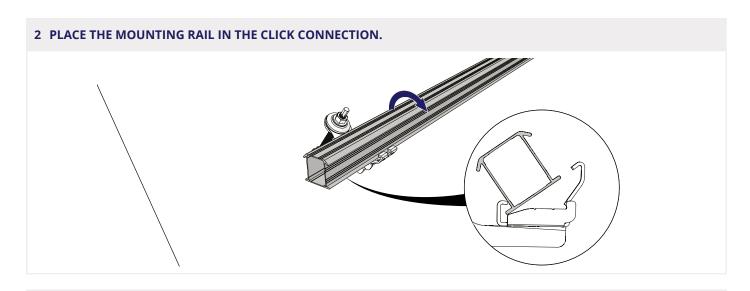
# **ATTACHING THE MOUNTING RAILS**

### 1 USE THE NUTS TO ALIGN THE CLICK CONNECTIONS AND ADAPTERS IN THE DIFFERENT AXES.

① Are the hanger bolts not properly aligned in relation to each other? Use the mounting rail to adjust the hanger bolts. Loosen one or both nuts half a turn and click the mounting rail into the click connections. The rigidity of the rail ensures that the adapters and click connections set themselves into the correct position. Then retighten the nuts.

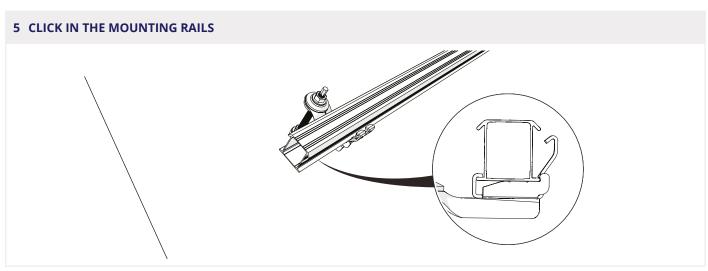
M10: Minimum of 25 Nm M12: Minimum of 40 Nm





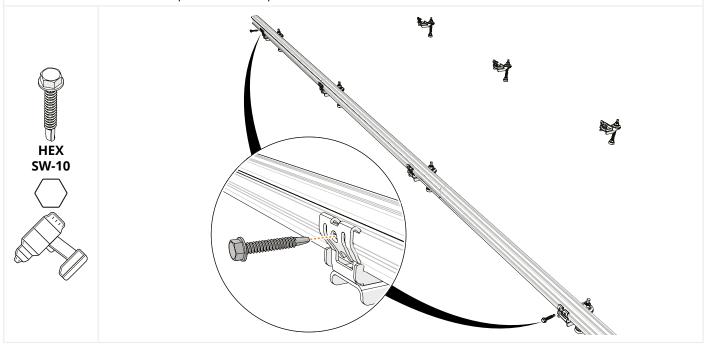
- 3 FOR UNEVEN ROOFS: LOOSEN THE SCREWS OF ANY MISALIGNED BRACKETS. THE RIGIDITY OF THE RAIL AUTOMATICALLY ALIGNS THE BRACKETS INTO THE CORRECT POSITION.
- 4 RETIGHTEN THE LOOSENED SCREWS WHEN THE RAIL IS PROPERLY ALIGNED. APPLY A TORQUE OF 9 NM.
- 1 The mounting rails need to be straight and parallel for proper installation and alignment of the solar panels.





### 6 FOR VERTICAL MOUNTING: SECURE THE MOUNTING RAILS TO THE CLICK CONNECTIONS

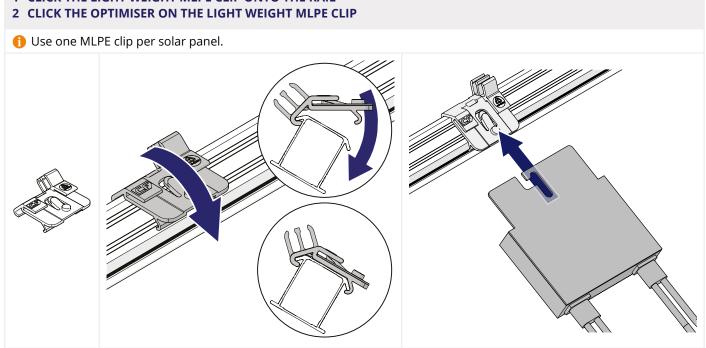
first secure the bottom click connection with a self-drilling screw. Skip two click connections and then screw down the fourth click connection. Repeat until the top click connection.



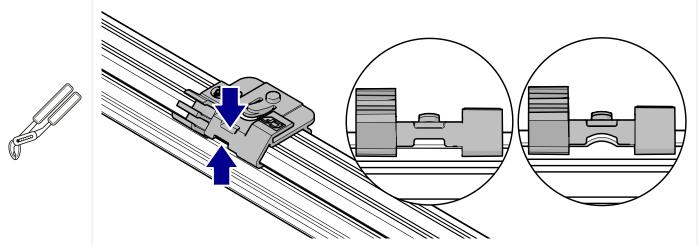
# OPTIONAL: ATTACHING THE MLPE CLIPS

# **CLICKFIT EVO MLPE CLIP LIGHT WEIGHT**

1 CLICK THE LIGHT WEIGHT MLPE CLIP ONTO THE RAIL

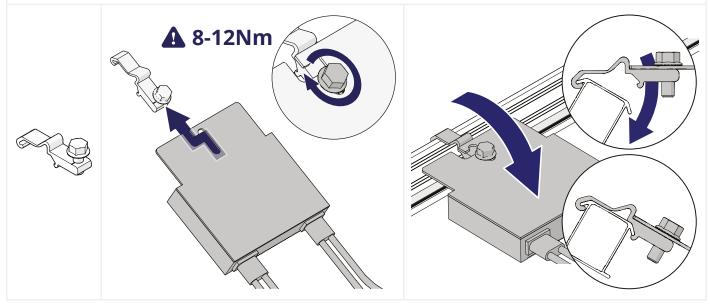


(1) With vertical rail orientation you have to fix the MLPE clip by bending the edge of the mounting rail with adjustable pliers.



# **CLICKFIT EVO MLPE CLIP HEAVY WEIGHT**

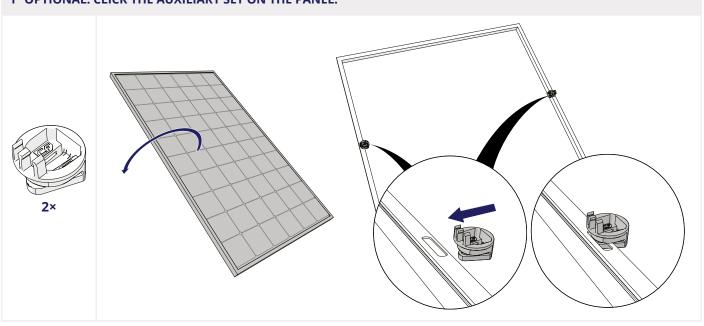
- 1 ATTACH THE OPTIMISER TO THE HEAVY WEIGHT MLPE CLIP
- 2 CLICK THE HEAVY WEIGHT MLPE CLIP ONTO THE RAIL
- for larger optimizers (equipped with 2 slots), it is essential to use two Heavy Weight MLPE clips.
- (1) With vertical rail orientation you have to fix the cable clip by bending the edge of the mounting rail with adjustable pliers.



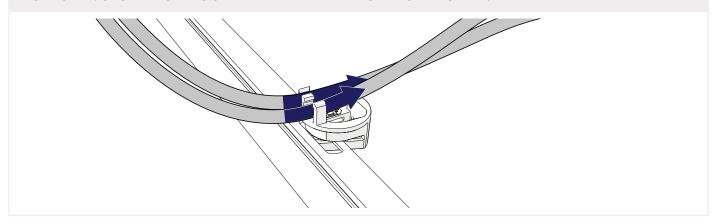
# **MOUNTING SOLAR PANELS WITH 60MM PANEL CLAMPS**

# MOUNTING THE FIRST PANEL

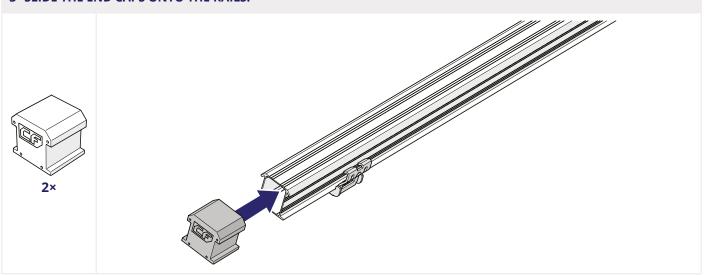
# 1 OPTIONAL: CLICK THE AUXILIARY SET ON THE PANEL.



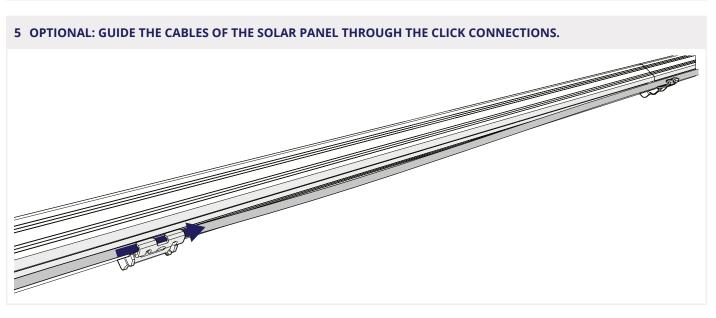
# 2 OPTIONAL: CLICK THE CABLES OF THE PANEL FIRMLY INTO THE CABLE CLAMP.

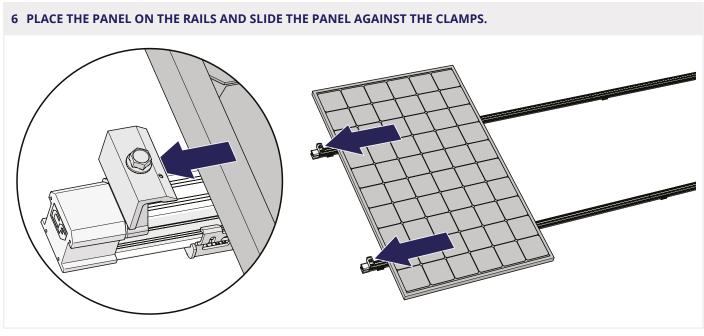


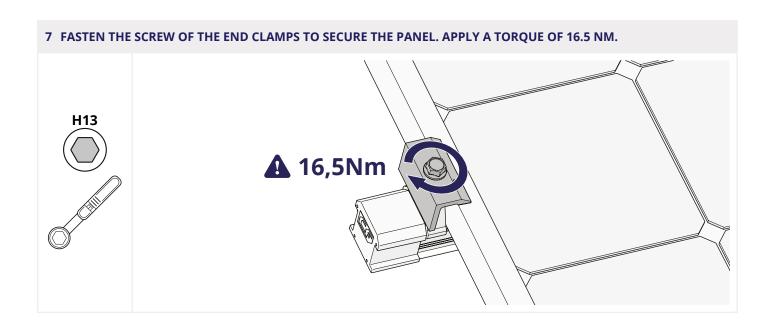
### 3 SLIDE THE END CAPS ONTO THE RAILS.



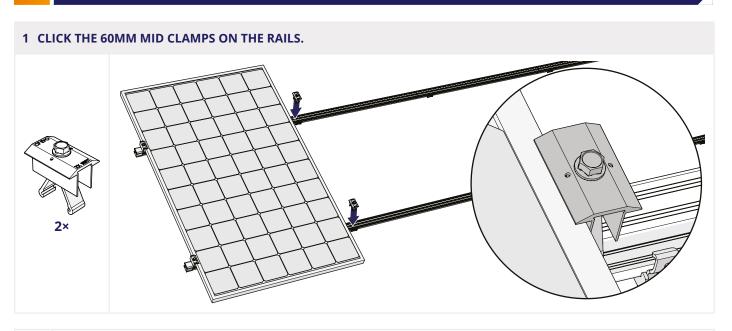
# 4 CLICK THE CLICKFIT EVO 60 END CLAMPS ON THE RAILS.







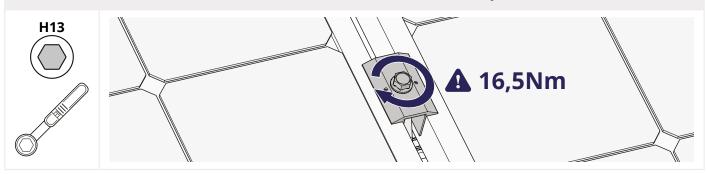
# 2 MOUNTING THE FOLLOWING PANELS



Optional: Repeat steps 1.1. and 1.2.: Click the Auxiliary set on the panel and Click the cables of the panel firmly into the cable clamp.

# 2 PLACE THE NEXT PANEL ON THE RAILS AND SLIDE THE PANEL AGAINST THE CLAMPS.

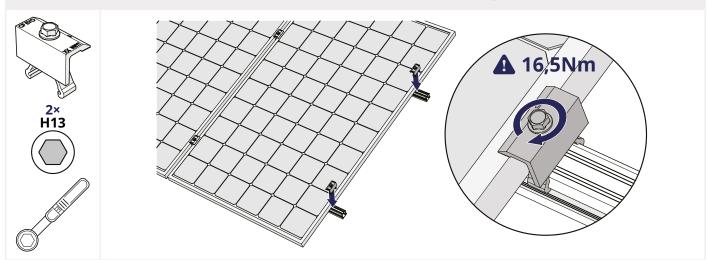
3 FASTEN THE SCREW OF THE MID CLAMPS TO SECURE THE PANEL. APPLY A TORQUE OF 16.5 NM.

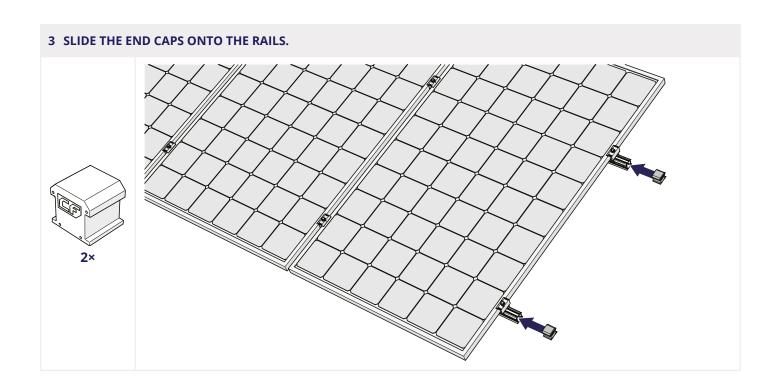


Repeat the steps in this chapter for all panels of the row.

# 3 MOUNTING THE LAST PANEL

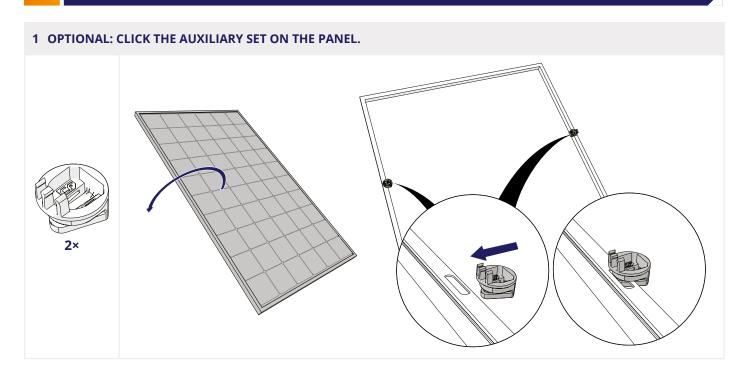
- Optional: Repeat steps 1.1. and 1.2.: Click the Auxiliary set on the panel and click the cables of the panel firmly into the cable clamp.
- 1 CLICK THE CLICKFIT EVO 60 END CLAMPS ON THE RAILS.
- 2 FASTEN THE SCREW OF THE END CLAMPS TO SECURE THE PANEL. APPLY A TORQUE OF 16.5 NM.

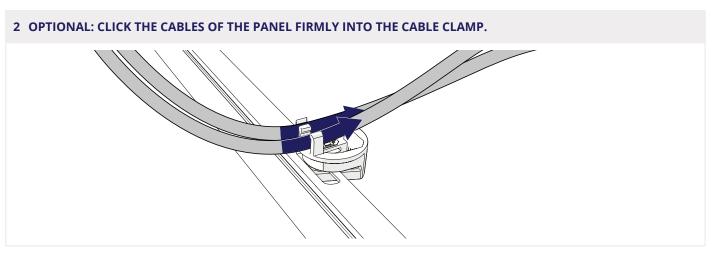


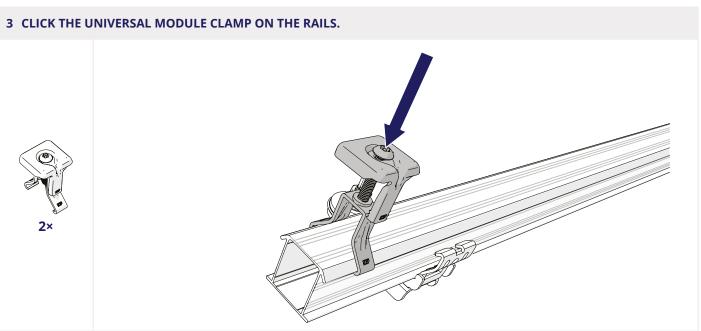


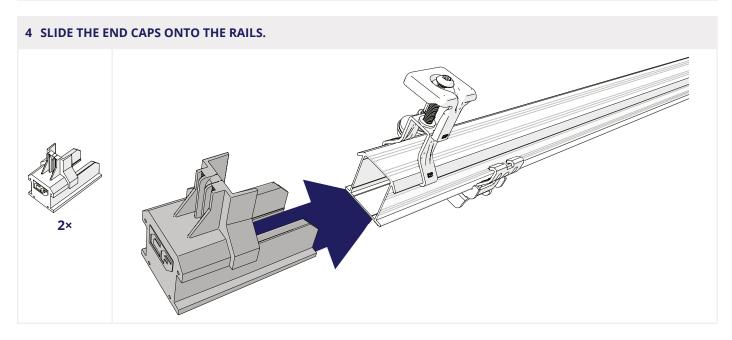
# **MOUNTING THE SOLAR PANELS WITH 35 MM PANEL CLAMPS**

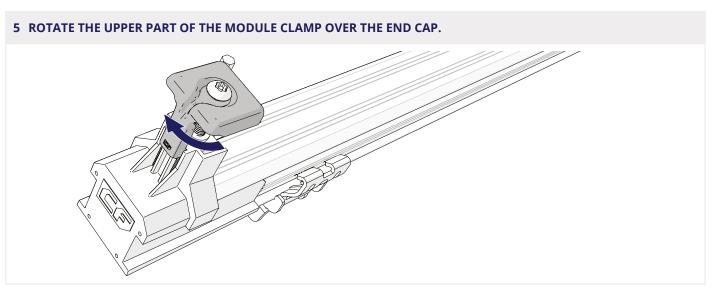
# MOUNTING THE FIRST PANEL

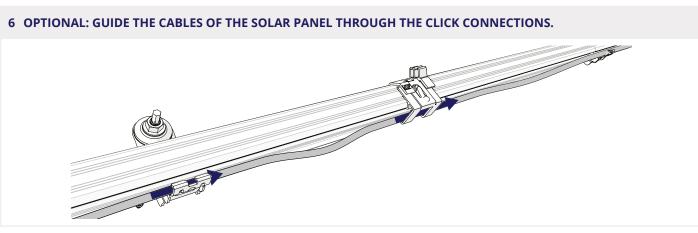


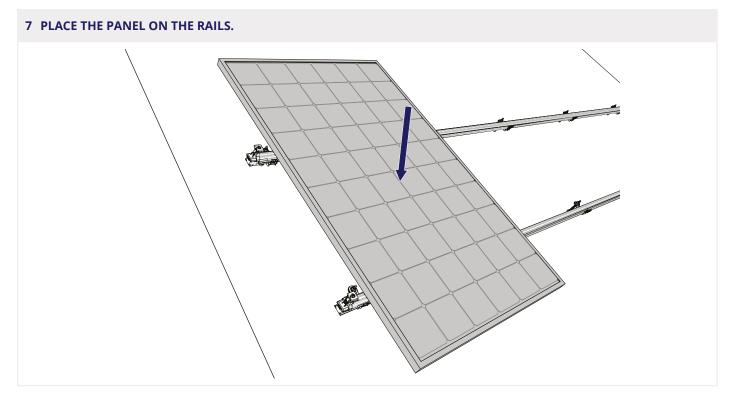




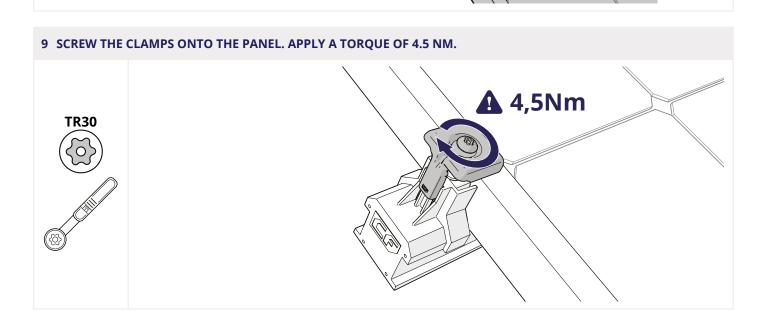








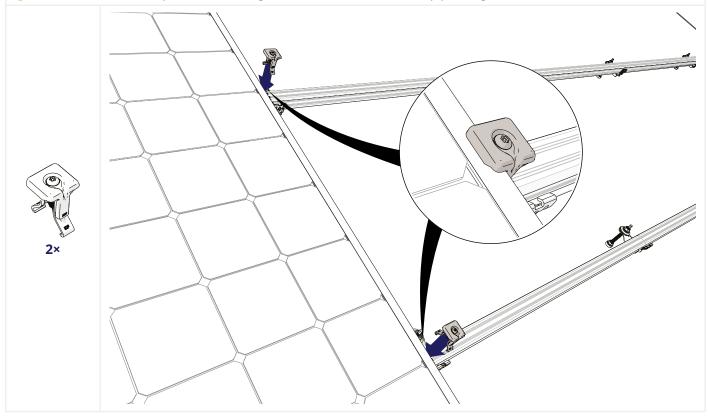
# 8 SLIDE THE PANEL AGAINST THE CLAMPS.



# MOUNTING THE FOLLOWING PANELS

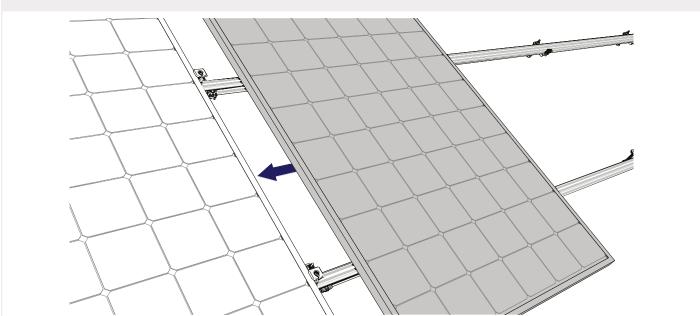
# 1 CLICK THE UNIVERSAL MODULE CLAMP ON THE RAILS.

1 Install the module clamp with the drainage channel of the module clamp pointing downwards.



- Optional: Repeat steps 1.1. and 1.2.: Click the Auxiliary set on the panel and Click the cables of the panel firmly into the cable clamp.
- Repeat step 1.7. Place the panel on the rails.

# 2 SLIDE THE PANEL AGAINST THE CLAMPS.



# 

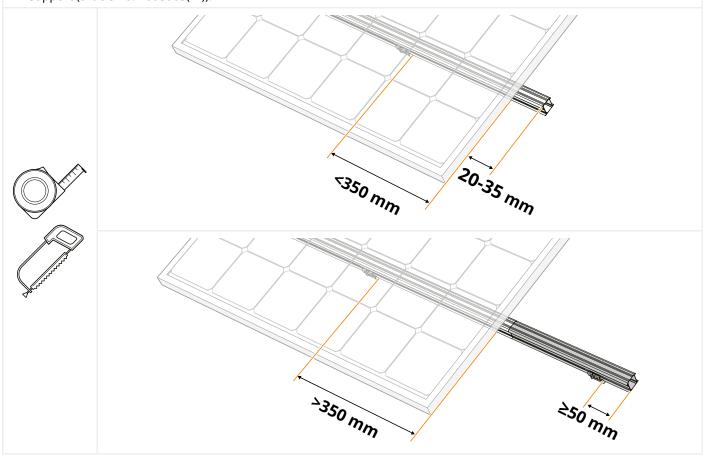
Repeat the steps in this chapter for all panels of the row.

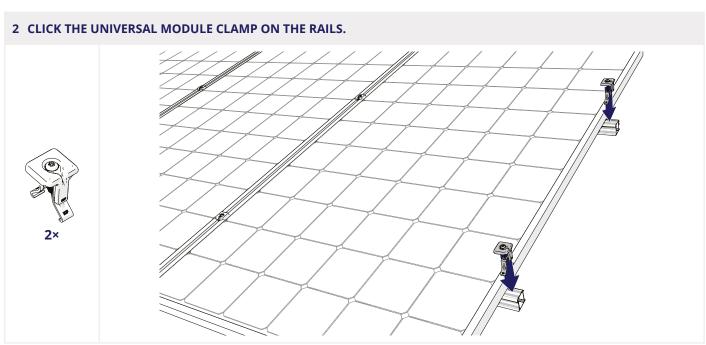
# 3 MOUNTING THE LAST PANEL

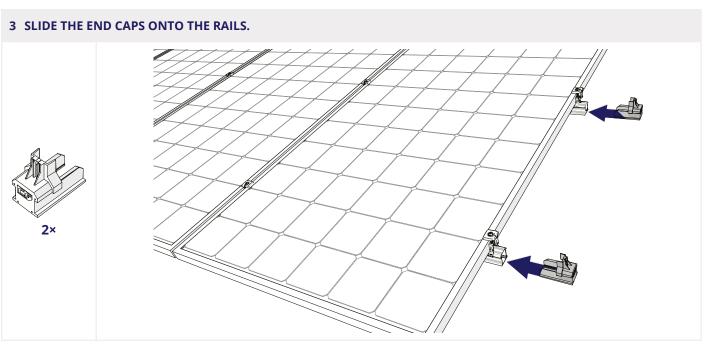
- Optional: Repeat steps 1.1. and 2.: Click the Auxiliary set on the panel and Click the cables of the panel firmly into the cable clamp.
- Repeat step 2.7. Place the panel on the rails.
- Repeat step 2.2. Slide the panel against the clamps.

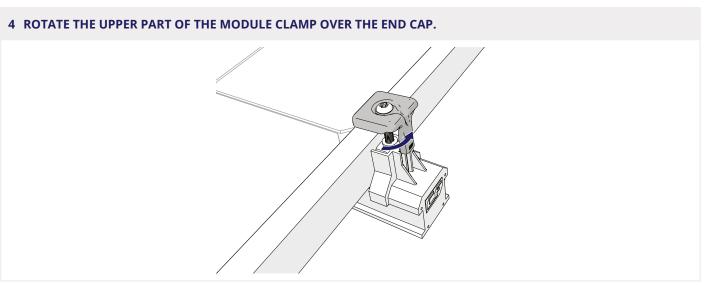
### 1 OPTIONAL: SAW THE MOUNTING RAILS TO SIZE

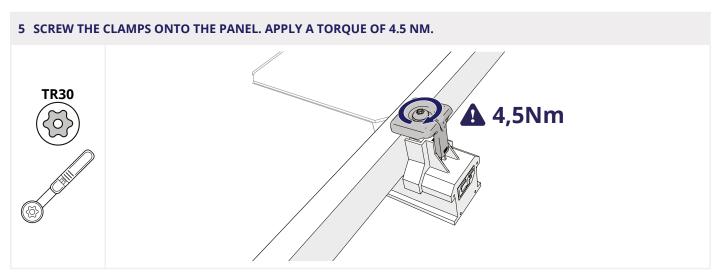
- 1 If the overhang is smaller than 250 mm, keep a minimum of 20 mm to a maximum of 35 mm rail length overhang for mounting the end cap (art. no.1008060(-B)).
- ① Does the outer panel edge project more than 250mm beyond the last hanger bolt? Then extend the mounting rail so it goes 50mm beyond the next hanger bolt and attach the mounting rail here. This extra 50mm provides sufficient length to fit an end cap (article no. 1008066(-B)) to the mounting rails. For the end clamp you must then use the end clamp support (article no. 1008065(-B)).







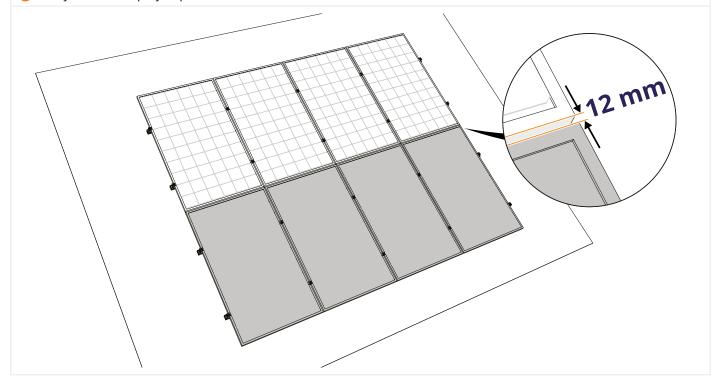




# **MOUNTING MULTIPLE ROWS**

# 1 MOUNT EACH NEXT ROW AGAINST THE PREVIOUS ROW

- 1 Always keep a minimum of 12 mm between each row of panels in the case of horizontal rails, or each panel column in the case of vertical rails.
- 1 Always follow the project plan from the calculator.



# **REMOVAL AND RECYCLING**

# **GENERAL**

Always follow local laws and regulations when dismantling the mounting system and disposing of it.

