





CORRUGATED ROOF

DISCLAIMER

This installation manual should be kept for future use!

For more information on the warranty period and terms, we recommend contacting your supplier. We would furthermore like to refer to our general terms and conditions, which are available on request. The manufacturer cannot be held liable for damage or injury resulting from a failure after not carefully following the instructions in this manual, or not taking the necessary care during transport, installation and use of the ClickFit mounting system.

Because of this, these instructions only serve as a guideline for the installation of the product described in this manual.

While this manual was compiled with the utmost care, the manufacturer cannot be held liable for any errors in this manual or the conse-

quences thereof. Furthermore, all rights are reserved, and no part of

this manual may be reproduced in any way, shape or form.

As a result of our continued aim for improvement, certain details of the product may deviate from what is described in this manual.

GENERAL INSTALLATION CONDITIONS

General

Failure to comply to the instructions stipulated in this manual may result in a lapse of all warranty and product liability claims. The information, notes and advice in this document are binding and should be monitored to make sure they are complete and up to date. Esdec B.V. reserves the right to make adjustments to this document without prior notice.

Roof stability and condition

The roof should be in good condition and should be sturdy enough to support the weight of the solar panels including any accompanying materials, wind, and snow load. Check the stability of the roof and adjust the roof/construction if necessary. In case of doubt, please reach out for professional advice. Make sure the roof load reserve is not exceeded anywhere.

Safety warnings

- Before you start the installation, you should know the material of the corrugated sheets.
- This product is not suitable for sheets containing asbestos.
- The installation of the ClickFit mounting system should always be performed by qualified technical staff (at least 2 competent persons).
- The addition or omission of system parts can negatively impact functionality and is strongly discouraged!
- Make sure the roof is clean, dry, even and free of algae etc. before placing the solar panels.
- Avoid installation under strong winds and on a wet, slippery roof surface.
- On pitched roofs, always use fall protection and, if necessary, safety nets, edge protection and gangways.
- Wear shoes with reinforced toecaps and sturdy anti-slip soles.
- Always use the appropriate protective clothing when performing activities.
- Always use a lifting aid/lifting installation to move the materials (solar panels etc.).
- Always place ladders on sturdy, stable surfaces.
- Always place the ladder at a 75°-degree angle and make sure it extends about 1 metre above the edge of the roof.
- \bullet If possible, secure the ladder at the top with a rope or lashing strap.

ClickFit range of application

- Solar panels of all brands and models with a frame height between 30 and 50 mm with a maximum size of 2.25 m² per solar panel. Check whether the chosen solar panel can withstand the forces, in the documentation of the supplier of the solar panels.
- Maximum roof height: dependent on Eurocode guidelines and national additions. Use the calculator to calculate the possibilities for your project.
- Roof surface type: Corrugated sheets.
- Roof pitch: Between 10 and 60 degrees.
- Use the calculator to ensure you select the right mounting system for the terrain category, snow load and wind zone applicable to your project.

Edge zone

The distance between the solar panels and the ridge and gutter should be at least 30 cm due to wind load. The distance between the solar panels and the edge of the roof should also be at least 30 cm. Solar panels can neither fully nor partially be placed in this zone.

Standards, regulations and legislation

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

- The Building Regulations 2010 (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 60363 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

MOS

Removal and dismantling

Dispose of the product in accordance with local laws and regulations.

Warranty

Warranty according to the terms and conditions of Esdec BV. These can be found on the website www.esdec.com

Maintenance

The ClickFit EVO system is designed to be virtually maintenance-free. A few points need to be checked to ensure structural integrity and the function of the system.

The following points need to be checked on a yearly basis and after each storm with wind speeds >9Bft.:

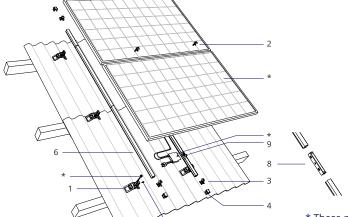
- The reliability of all bolts, nuts, screw and clamp connections.
- Action: Tighten all bolts, nuts, screws, and clamps where necessary according to the installation manual and report it to Esdec BV including photographs.
- Overall visual control of ClickFit EVO system (corrosion of components, etc).
- o Action: Report it to Esdec BV including photographs.

Liability

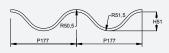
The manufacturer shall not be held liable for any damage or injury caused by a failure to (strictly) adhere to the safety regulations and instructions in this manual or due to carelessness during the installation of the product and any accessories described in this document.

printing errors reserved

1 PARTS OVERVIEW



ROOF SPECIFICATIONS



P (pitch) 177mm R1 (outer radius) 50,5mm R2 (outer radius) 51,5mm H 51mm

Corrugated sheets of the wave type 177/51 that comply with the applicable requirements as stated in NEN EN 494 will be supported by the mounting bracket.

* These parts are not delivered by Esdec B.V.

ROOF CONNECTOR



1. ClickFit EVO Corrugated Sheet Mounting Bracket 1008090

MOUNTING RAIL



6. ClickFit EVO Mounting Rail Mounting Rail 100800_ Mounting Rail 10081_

MODULE CLAMP & END CAPS



2. ClickFit EVO Module Clamp Universal Grey 1008020

2B. ClickFit EVO Module Clamp Universal Black 1008020-B



3. ClickFit EVO End Clamp Support Grey 1008065

3B. ClickFit EVO End Clamp Support Black 1008065-B



4. ClickFit EVO End Cap Without End Clamp Support Grey 1008066

4B. ClickFit EVO End Cap Without End Clamp Support Black 1008066-B



5. ClickFit EVO Mounting Rail End Cap Grey (optional) 1008060

5B. ClickFit EVO Mounting Rail End Cap Black (optional) 1008060-B

MOUNTING MATERIALS



7. Self-drilling Screw 5.5x48mm T30 1008095

ACCESSORIES



8. ClickFit EVO Mounting Rail Connector Piece 1008061



9. ClickFit EVO Mounting Rail Cable Clip Optimiser Ready 1008062

TOOLS & AIDS















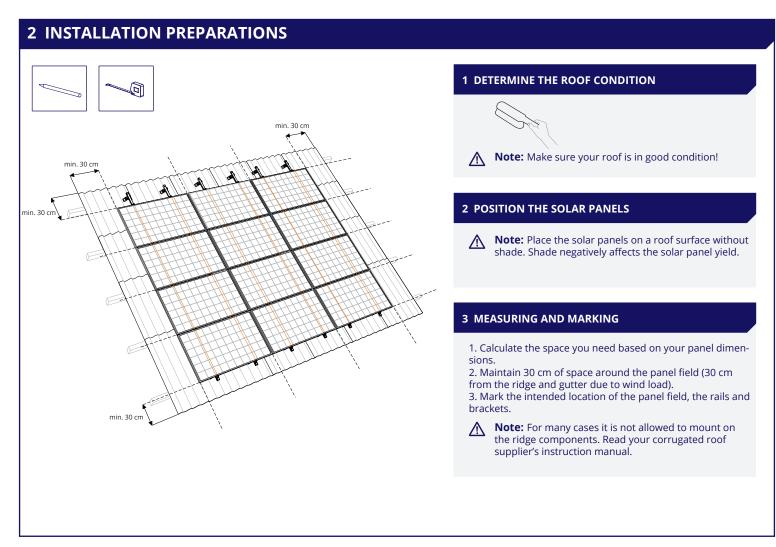


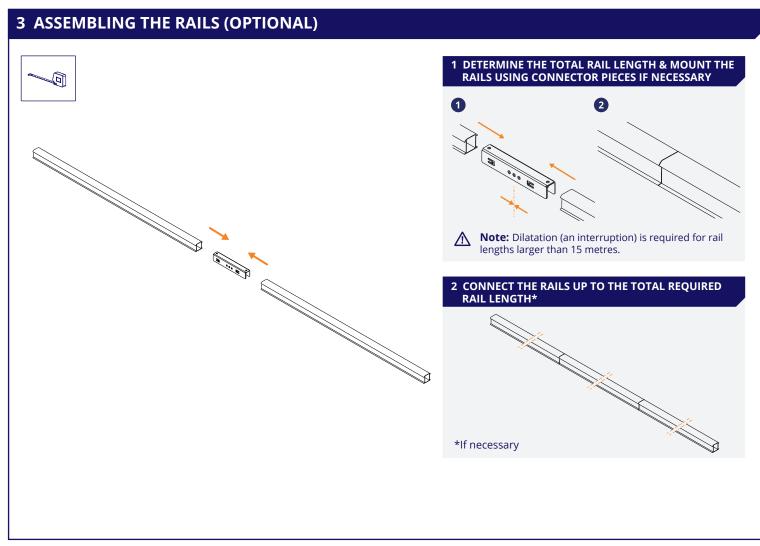










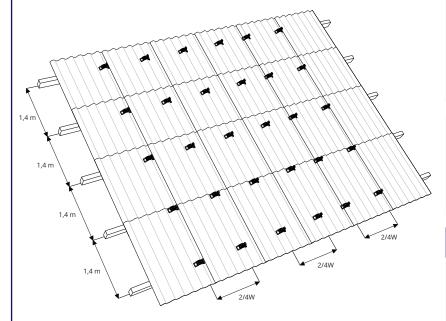


4 INSTALLING THE MOUNTING BRACKETS

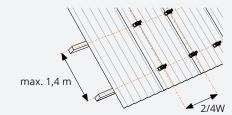








1 PLACE THE MOUNTING BRACKETS ON THE PURLINS



Only use the (existing) roof screws in the positions indicated by the corrugated sheet supplier. Screws should not be used in different positions. Exclusive mounting on corrugated sheet's rise and right above the purlin.

NEW CONSTRUCTION

Note:

Width between brackets: ±2/4W of the solar panel Length between brackets: purlin distance (1.4 metres maximum)

EXISTING CONSTRUCTION

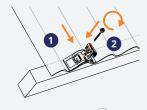
⚠ Note:

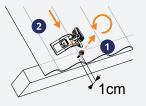
Place the brackets in the position of the current roof screws. Check instruction manual manufacturer corrugated roof.

2 PLACE THE MOUNTING BRACKET

NEW CONSTRUCTION

EXISTING CONSTRUCTION









- 1. Mount the mounting bracket on the purlin. 2. Place the roof screw through the hole. **CAUTION: DO NOT mount on** first and last rise of corrugated sheet. Read roof supplier's instruction manual!
- 1. Loosen the roof screw 1 cm, but do not remove it from the purlin.
- 2. Slide the mounting bracket over the roof screw from above, until it reaches the end of the slotted hole.

3 SCREW THE MOUNTING BRACKET IN PLACE



1. The feet of the mounting brackets should rest in the troughs.



2. Tighten the screw until the EPDM seal of the bracket is in contact with the sealing rubber of the screw.





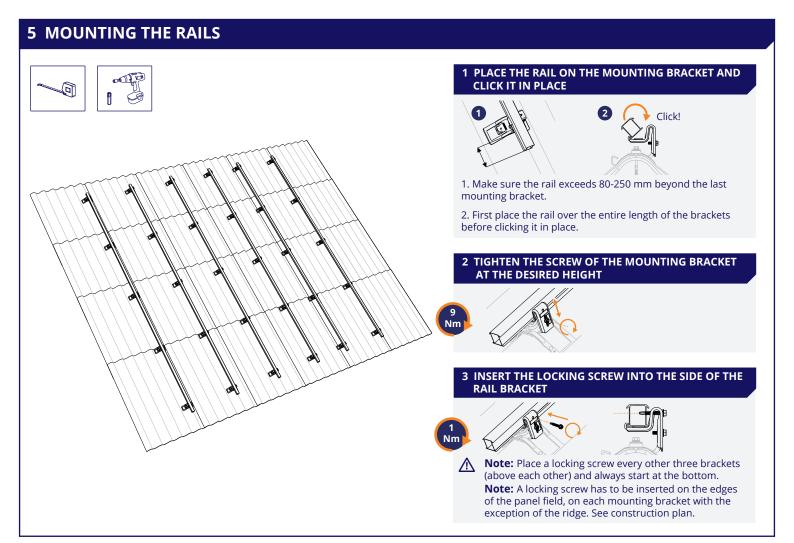
4 TWIST THE RAIL BRACKET 90 DEGREES

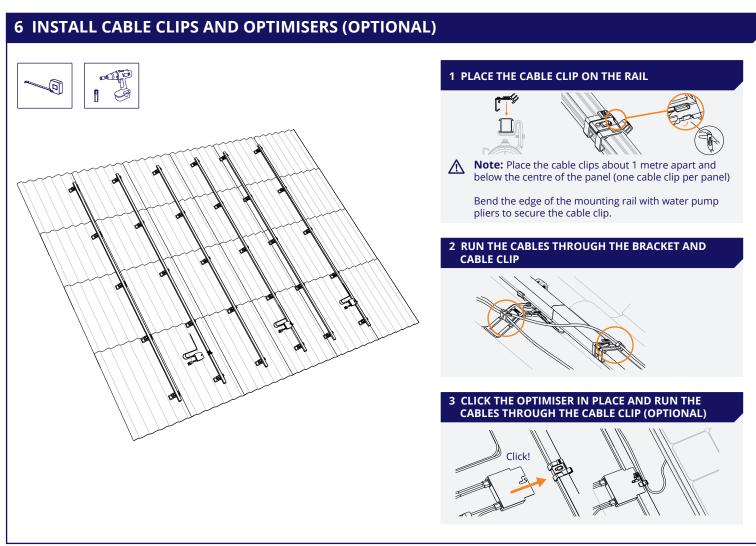


1. Turn the rail bracket by 90 degrees.



2. Do not screw the rail bracket in place yet.





7 MOUNTING THE FIRST SOLAR PANEL

1 MOUNT THE FIRST SOLAR PANEL ONTO THE RAILS



Note: Click the cables into the cable clip and slide the panel to the bottom of the rail.

2 PLACE THE MODULE CLAMP AND SLIDE THE END CLAMP SUPPORT AND END CAP ONTO THE RAIL







1. Place the module clamp onto the rail.

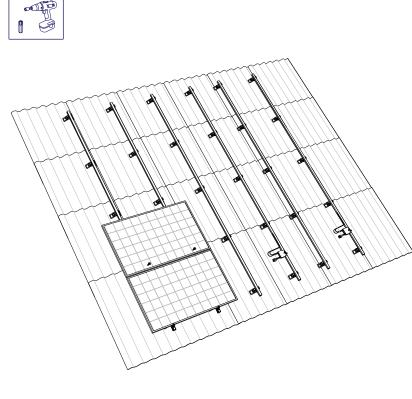
Note: The rail has to exceed at least 80 mm.

- 2. Slide the end clamp support onto the rail.
- 3. Turn the lip of the module clamp and screw the module clamp in place.
- 4. Place the end cap.

It is also possible to use the entire end cap. Keep 20-35 mm rail length available for this.



8 MOUNTING OTHER SOLAR PANELS



1 PLACE THE MODULE CLAMP ONTO THE RAILS AGAINST THE FIRST SOLAR PANEL



2 PLACE THE SECOND SOLAR PANEL ONTO THE RAILS AND SLIDE IT AGAINST THE FIRST ONE



Note: Make sure the solar panels are aligned before you tighten the screw.

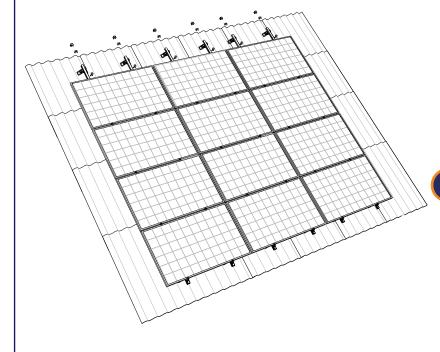
3 PLACE THE MODULE CLAMP AND SCREW IT IN PLACE



9 FINAL ASSEMBLY FIRST ROW AND MULTIPLE ADJACENT ROWS







- 1 MOUNT THE TOP SOLAR PANEL ONTO THE RAILS
- 2 PLACE THE MODULE CLAMP AND SLIDE THE END CLAMP SUPPORT AND END CAP ONTO THE RAIL



1. Secure the module clamp to the rail.

Note: The rail should exceed at least 80 mm.

- 2. Slide the end clamp support onto the rail.
- 3. Turn the lip of the module clamp and screw the module clamp in place.
- 4. Place the end cap.

It is also possible to use the entire end cap. Keep 20-35 mm rail length available for this.



3 PLACE THE REST OF THE SOLAR PANELS AGAINST THE ROW TO FINISH THE FIELD

Repeat steps 7 – 9 to finish the rows.

QUICK RELIABLE INNOVATIVE

05-01-2023

MAKE THE CLICK WITH ESDEC

Esdec has developed, produced and supplied professional mounting systems for solar panels on roofs since 2004. ClickFit and FlatFix are inspired by installers who regularly place solar panels.

Easy, quick and reliable installation with innovative, high-grade and sustainable mounting systems; that is what Esdec offers.

Esdec

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