

# ESDEC

INNOVATIVE MOUNTING SYSTEMS

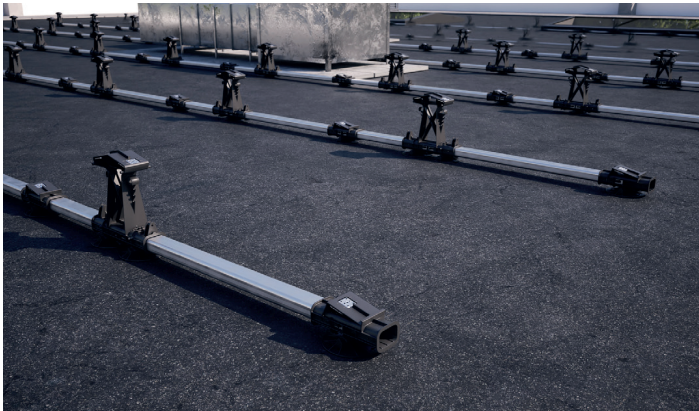


## THE VERSATILE CLICK SYSTEM FOR FLAT ROOFS

**FLATFIX** FUSION

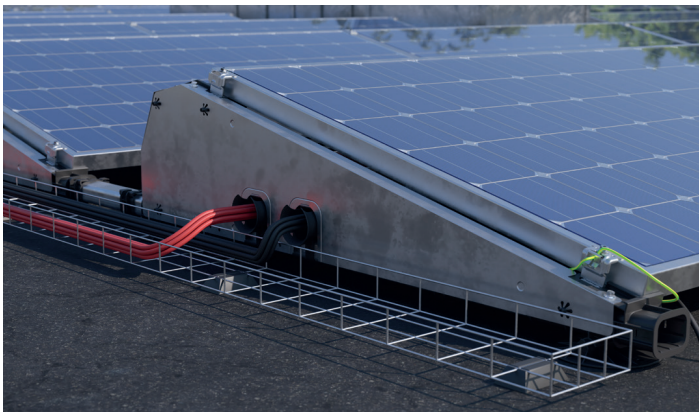


# THE ADVANTAGES OF FLATFIX FUSION



## FLEXIBLE AND EASY

- Completely modular system
- Flexible installation: Easy to build around obstacles
- Aesthetic lightweight system
- Single or dual setup
- Suitable for residential and commercial projects
- Strong and durable clamping force with metal insert in high and low base
- For panels up to 1150mm wide and 2190mm long



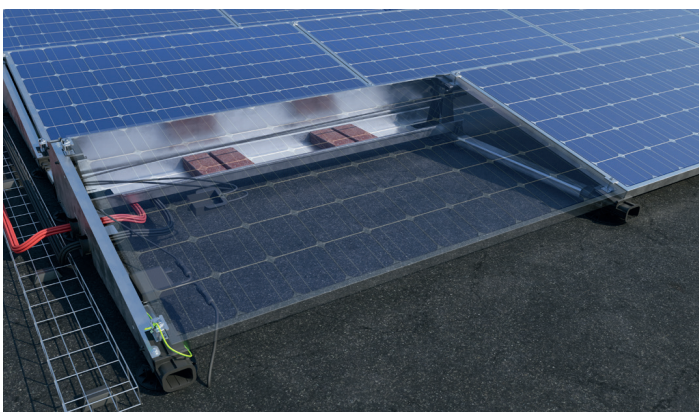
## RELIABLE

- Aerodynamic design with rounded corners and smooth material finish
- Robust system thanks to connectors parallel and perpendicular to the panels
- Wind deflectors designed for maximum safety
- Tested to international standards
- 20-year warranty



## SAFETY FOR THE ROOF

- For every type of roof
- Roof support with movable connectors
- Unique thermal decoupling prevents damage to roof material
- Optimum point pressure due to distributed ballast
- Integrated grounding and bonding in high and low base in accordance with IEC 60364 series
- Cable exits and cable guides (optional) for safe cable management



## EASY TO INSTALL

- User-friendly click system
- Optimizer ready cable clip for easy attachment and safe cable removal
- Grounding clamp can easily be incorporated onto the end clamp
- Optimizer clip can also be used for most micro inverters
- For the most common solar panels (angle of inclination 13°)
- Renewed end clamps for even more powerful and easier installation



# COMPLETE AND FLEXIBLE INSTALLATION ON EVERY ROOF

FlatFix Fusion is the modular and flexible mounting system for solar panels on small and medium-sized roofs. Its modular design enables a customized configuration to be created for every roof. Installers can, for example, easily build around obstacles – such as chimneys – with this system. FlatFix Fusion can be set up either in dual or single configuration. FlatFix Fusion is a 100% Dutch product that has proven itself for years. In 2021, the system received an update of a number of components, which not only makes installation even easier for the installer, but also further increases the safety of the roof and the PV system. It is now possible to install solar panels up to 1150mm wide and 2190mm long with FlatFix Fusion.

## Easy to install

Esdec was founded by professional installers, the interest of the installer always come first when designing our products. Simplicity and flexibility were therefore the starting points in the design of our FlatFix Fusion system. Smart click connections enable the system to be assembled quickly. Handy features on the clamps and on the wind deflectors make installation even easier.

## Safety for the roof

The different components are connected using fast-click connectors. The roof supports with movable connectors allow the system to move (expand and shrink) to prevent damages of the roof material. As a result, the thermal movements of the building are not transmitted to the PV system and vice versa. The 2021 upgrade includes a safe and aesthetic solution for cable management: cables are guided through the wind deflectors with a cable exit guide.

## Reliability

The patented FlatFix Fusion system has been extensively tested on fire safety, wind resistance and corrosion. With even stronger and durable clamping force with a metal insert in the high and low base. FlatFix Fusion is a high-quality mounting solution. It complies with the strictest international standards and comes with a 20-year warranty.

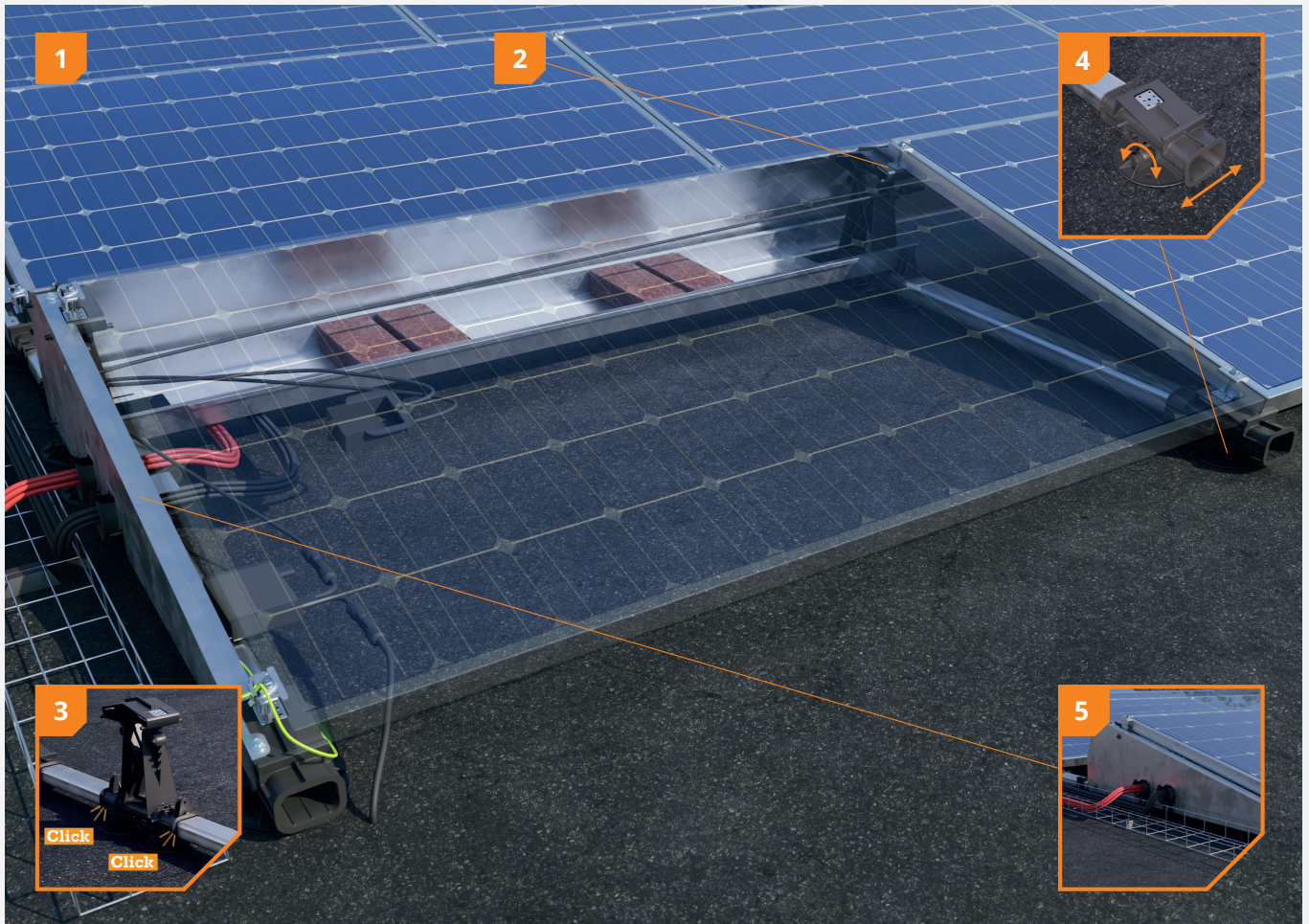
### ADVANTAGES FOR THE INSTALLER

- ✓ Modular mounting solution with click connection
- ✓ Flexible installation on any roof
- ✓ Integrated grounding and equipotential bonding
- ✓ Ease of installation with optimizer clip with integrated cable clip

### ADVANTAGES FOR THE END USER

- ✓ Roof-specific configuration
- ✓ Safe and reliable
- ✓ No damage of the roof material
- ✓ 20-year product warranty





**1 Strong, lightweight system**

The different components enable flexible row lengths. This makes it possible to create a roof-specific setup and, for example, to build around obstacles.

**2 Easy maintenance**

FlatFix Fusion is made of strong, lightweight materials. With the high and low base, with a metal insert, the clamping force remains optimal after removal and reinstallation of panels.

**3 Unique click connection**

The revolutionary, unique click connection makes the FlatFix Fusion a very quick and easy-to-install mounting solution.

**4 With thermal decoupling**

The roof supports with movable connectors give the system space to expand thermally without damaging the roof material.

**5 With integrated cable management**

The cables and plugs of the solar panels can be safely and easily attached to the mounting solution. With the cable exits in the wind deflectors and with the cable exit guides, cables can be stowed and guided in a safe way.





## Extension or carport?


FlatFix Fusion is ideal for small roofs. While in a landscape orientation you can only fit 3 panels on an extension of approximately 2.5 meters, with the portrait orientation you can fit as many as 5. Would you like to see whether your project can make use of this roof optimization? Check out our calculator and immediately download your packing slip and installation plan!





# SYSTEM COMPONENTS


 FlatFix Fusion roof support  
1007012


 FlatFix Fusion low base  
1007022  
1007022-S (with bonding)


 FlatFix Fusion high base  
1007031  
1007031-S (with bonding)


 FlatFix Fusion wind deflector rear\*/\*\*  
1007201

 FlatFix Fusion wind deflector left\*\*  
1007224 with base profile 940mm  
1007226 with base profile 1030mm or 1077mm

 FlatFix Fusion wind deflector right\*\*  
1007225 with base profile 940mm  
1007227 with base profile 1030mm or 1077mm


 FlatFix Fusion ballast container\*  
1007202

 FlatFix Fusion stabilizer\*  
1007203


 FlatFix Fusion base profile


210mm	1007121**	940mm	1007194
370mm	1007137**	1030mm	1007195
550mm	1007155**	1077mm	1007196
750mm	1007175**		


## PORTRAIT


 FlatFix Fusion Low Base Portrait  
1007027


 FlatFix Fusion High Base Portrait  
1007037

 FlatFix Fusion Wind Deflector Rear Portrait Black  
1007231

 FlatFix Fusion Wind Deflector Left Portrait Black  
1007232

 FlatFix Fusion Wind Deflector Right Portrait Black  
1007233

 FlatFix Fusion Ballast Container Portrait  
1007230


 FlatFix Fusion Base Profile 1670mm  
1007197

\* Also available in 1600, 1700, 1900, 2000 & 2100


\*\* Also available in black

\*\*\* Also suitable for most micro inverters

## FASTENERS

 Esdec mounting screw\*/\*\*

6 x 55mm	1000655
6 x 70mm	1000670
6 x 12mm	1000612


 Esdec screw


6,0 x 25mm (self tapping)	1008085
6.3 x 42 mm SW10/T30 (self drilling)	1003016

\* Depending on panel thickness and related end clamp

\*\* Also available in black

## CLAMPS

 Flatfix Fusion universal module clamp with bonding\*\*  
1003022


 FlatFix end clamp 30-50mm\*/\*\*  
10043\_  
10044\_ (black)


\* Depending on panel thickness (in mm)


\*\* Also available in black


## ACCESSORIES


 FlatFix Fusion grounding spring  
1007502\*


 FlatFix Fusion grounding clamp (6mm<sup>2</sup>)  
1007505


 FlatFix Fusion grounding bracket  
1007503

 FlatFix Fusion TPO Mat  
1007015

 FlatFix Fusion roof support adapter  
1007011

 FlatFix Fusion low base extension  
1007022-WP

 FlatFix Fusion Cable exit guide  
1005570

 FlatFix Fusion cable-clip optimizer ready\*\*\*  
1007041

\* Also available ready-assembled, see SYSTEM COMPONENTS

## Calculator

In the Esdec calculator you can manage and calculate all your projects, for both pitched and flat roofs. Flat roofs: our user-friendly tool lets you perform technical calculations for roof heights of up to 20 metres.

Go to [esdec.com/en/calculator](https://esdec.com/en/calculator)



## Warranty

- ✓ Use of premium materials
- ✓ Thoroughly tested
- ✓ 20-year product warranty







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# BUILDING VALUE<sup>+</sup> FOR SOLAR PROFESSIONALS

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