

it's so easy

ilzoeasy

ilzoeasy - bolt down modules are out-dated!

ilzoeasy – there's always an easier way

As a next generation enhancement of our successful flat-roof support system ilzofix with all of its aerodynamic advantages, ilzoeasy does set new standards in the industry. We had to understand that a further reduction of installation time could only be achieved by taking out the module clamps from the module-fixing procedure. So, we made, what already was easy to use even easier, left unnecessary parts out and optimised a proven system. By using an installation gauge the modules are fixed to the support bars in step one. Then the wiring can be done with comfortable space in step two. Finally the back- and side sheets are installed.

ilzoeasy – same high quality components

While we simplified the mounting procedure, reduced the weight to an industrial low and shrunk the number of components required, the quality of the product we did not touch. This is why ilzoeasy achieves optimum values for withstanding wind forces and snow loads. The proven and tested system rail, the EPDM-stand, rail connector and other components remain the same as in ilzofix and offer cross-system compatibility.

ilzoeasy – just simple

In order to simplify logistics, ilzoeasy will only be available for module-widths from 980 - 1070 mm (38.58 - 42.43 in.). The module pitch is 11° or 15° and the raster of rows is 1.5m (3.28') or 2m (6.56'). The new, variable back sheet covers by means of an innovative whole pattern all module lengths from 1630 to 1680mm (5.35 - 5.51 ft.). The choice of EPDM-stands, window band or brackets for trapezoid metal sheet roofs allows installations on all kinds of roofing. If your customer requires the use of modules outside above mentioned dimensions or wishes a different module pitch, you can choose other component options from our ilzosave system. Ask us for an individual quotation.

ilzoeasy – simply faster (a quantum leap)

Our first flat roof system ilzofix has been used on over 1.000 roofs with more than 5MW of modules and has set new standards in the industry by enabling a single technician to install 1kWp in one hour of time. With our new ilzoeasy we've been able to cut this installation time in half. Today you can install 1kW in 30 minutes with just one technician. There are 5 steps to follow to install one module: Put the rails in position and lay the module on top of the rails. Pull the module to the back into the front locking device of the rails. Lift the module at the other side, unfold the rear lever and lock the module again. The prototype system of 30kWp has been installed by 3 technicians in just 4 ½ hours, including DC-cabling.



Key advantages:

- only 3 system components
- no module clamp at all
- universal backsheet
- quickest assembly:
< 0.5 manhour per kWp
- extreme light structure:
< 9 kg/m² (incl. PV module)
- equal weight distribution
- more power to the roof edge
- installation on any flat roof and most metal roofings
- no roof penetration
- optimised PV module air-cooling
- unhindered drainage
- loading stones included
- 10-years product warranty

Further information:



Project planning form



Installation manual



Measurement report of friction coefficient



Wind tunnel testing report (abbreviated)



Certificate of system code compliance



Supply specification, incl. system weights



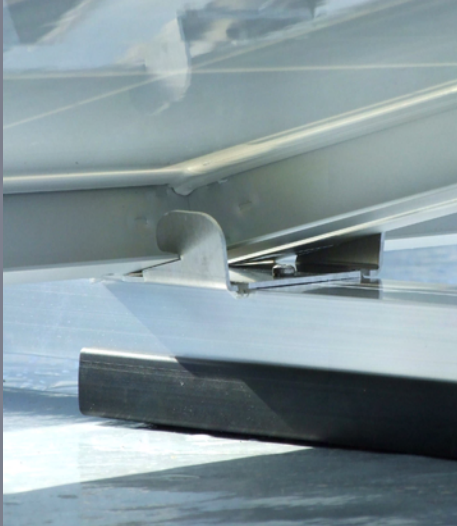
Detail rear corner



Detail locking-clip



Mounting without any module clamp



Further Information:

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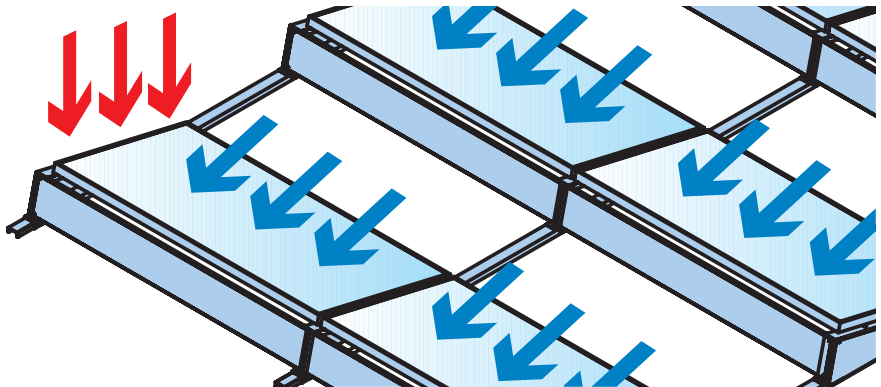
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ilzoeasy – solid and flexible

The already well known stability of the system is based on a cross bracing of the basic rails in connection with the stiff back sheets and the pre-mounted locking devices. Replacing the normal module clamps by our new and innovative locking device (protected as a utility patent) makes the material expansion less critical, as the modules can slide in the locking device without ever getting loose. This non-fixed device also enables installations on uneven surfaces where shims have been required to underlay the supports. The sophisticated design of the system makes it adaptable to almost every installation challenge. With our high-grade combination of materials the outcome is the ideal design. The modular system is also very flexible during and after the installation process. Modules can be removed or left-out with our user-friendly design system.

ilzoeasy – aerodynamics that stabilise

Similar to an aerodynamic wing of an airplane, a fast moving airstream across the upper slot induces a defined suction within the box-like structure. Wind tunnel testing reports of I.F.I., the renowned institute for industrial aerodynamics at Aachen, Germany, proved best results for all ilzosurf systems even at peripheral zones on flat roofs - zones which our competitors don't



even consider to cover with modules. A dedicated wind-modelling tool has been developed based on these test data at I.F.I.. We use it to determine the optimal perimeter ballasting for every project and to guarantee safe operation. Even if it is necessary to reduce ballast for structural reasons, a great variety of ballasting options are possible. Ilzosurf has developed a modular ballasting stone system to simplify assembly and system approval by local authorities. An individual mounting- and ballasting diagram shows where the loading stones have to be placed on the base rails.

ilzoeasy – air-cooling for performance optimisation

As the performance of crystalline silicon PV modules decreases markedly with increasing temperature, ilzoeasy incorporates a natural convection air-cooling concept as part of its box-like mounting structure. Cooling improves strongly with wind induced rear ventilation across the PV module.

