

Technical datasheet | IROC OW3-S3

ETN certified

IROC OW3 is a process combining framed photovoltaic modules with a ballasted mounting system installed on flat roofs.



Material	Aluminium
Area of use	New or existing technical flat roofs
Compatible insulation materials	Minimum compression class C at 80°C or D certified BroofT3
Compatible membranes	New roof = minimum class waterproofing membrane FIT F5 I5 T4 Existing roof = minimum class waterproofing membrane F5 I4 T2, provided that the supplied pads are added.
Wind zones	Zone 1 to 4
Snow zones	Zone A1 to E
Roughness zones	IIIa, IIIb, IV for wind areas 1,2 et 3
Building height	35m max
Altitude	900m max
Roof slope	Up to 5%
Modules	>2m adding a third point of support
Module inclination	10° or 15°
Module orientation	East-West or South depending on configuration
Type of fastening	Concrete ballast blocks with a density >2.4
System weight	On average 15 kg/m ² (excluding ballast)

System parts

Protective pad	The pad is made of a mixture of rubber and polyurethane covered with aluminum foil. It is placed on the roof deck covering to protect the waterproofing membrane and prevent the system from shifting.
IROC rail	The IROC rail supports the entire integration system, the photovoltaic panel, and the ballast. It is installed on the roof terrace covering using a glide. Available lengths: 1665 mm/1870 mm/2500 mm/3740 mm/5000 mm
Fishplate	When a rail is not long enough, rail joints are used to connect several rails together.
Low support	The low supports are extruded parts on which the photovoltaic modules rest. The modules are attached to the supports using hammerhead screws and lock nuts.
High support	The high supports are extruded parts on which the photovoltaic modules rest. The modules are attached to the supports using hammerhead screws and lock nuts.
Clamps	Clamps are fasteners used to secure photovoltaic modules to the supports (top and bottom). There are three different types of clamps for the IROC system: MK: inter-module clamps, EK: end clamps, Optima: please consult us.
Deflector	IROC deflectors are attached to the upper supports of the modules and to the rails when the last row of East/West modules is open towards the outside of the building.
Ballast bracket	The ballast brackets are attached to the rail using hammerhead screws and lock nuts to secure the ballast blocks.

System layout

