

ASSEMBLY IN SIX STEPS

1	2	3
CONFIGURATION	PREPARATION	RAMMING THE FOUNDATIONS
<ul style="list-style-type: none"> • Definition of rows and gap sizes • Determination of number of modules per pedestal 	<ul style="list-style-type: none"> • Drafting the layout plan • Test pile driving and soil expertise • Site-specific statics calculation 	<ul style="list-style-type: none"> • Surveying and marking the foundation positions • Ramming the foundations into the soil
4	5	6
MOUNTING GIRDERS	MOUNTING CROSS MEMBERS AND SUPPORTS	MOUNTING THE MODULES
<ul style="list-style-type: none"> • Mounting the girders on the foundations 	<ul style="list-style-type: none"> • Self-tapping screws • Predefined taps 	<ul style="list-style-type: none"> • Mounting and fastening the modules • Wiring the strings

ADVANTAGES

CHARACTERISTICS AND COSTS



- Quick assembly thanks to only six system components
- Assembly of 1 MWp PIRMIN possible in two days
- Self-explanatory system for reliable assembly process
- Low weight and durability due to aluminum construction
- Material savings due to static integration of the modules into PIRMIN
- Low disposal costs due to long service life and high residual value of materials

TECHNICAL SPECIFICATIONS OF PIRMIN MOUNTING SYSTEM

MATERIALS	<ul style="list-style-type: none"> • Girders, supports, cross members: aluminum • Screws: stainless steel • Ramming piles: galvanized steel
MODULE TYPES	<ul style="list-style-type: none"> • Framed modules (crystalline modules and thin-film modules) • Frameless modules with back rails (thin-film modules)
LOGISTICS	<ul style="list-style-type: none"> • Increased efficiency as only six components • Low weight through aluminum construction
ASSEMBLY	<ul style="list-style-type: none"> • Prefabricated components • Terrain-fitting construction possible • No nut-and-bolt connection in the mounting system • Quick assembly, self-explanatory system
ACCESSORIES	<ul style="list-style-type: none"> • Grounding set • Mounting plates for inverters and string collector boxes • Clips and pre-drilled holes for cable routing
STATICS	<ul style="list-style-type: none"> • Site-specific system statics • Loading in acc. with DIN 1055 and Eurocode • Numerical verification of components through an FEM simulation
FIRE PROTECTION GROUNDING EQUIPOTENTIAL	<ul style="list-style-type: none"> • Upgrade through external lightning protection (optional) • Lightning rods attached to the pedestals (optional) • Prefabricated grounding set (optional)
LANDSCAPE MAINTENANCE	Easy landscape maintenance due to ground clearance from lower edge of module: min. 60 cm
GUARANTEE	Ten-year manufacturer guarantee*
*in acc. with the VISIPRON ENERGY GmbH & Co. KG warranty terms	
SERVICE PORTFOLIO VISIPRON ENERGY GMBH & CO. KG	<p>Planning:</p> <ul style="list-style-type: none"> • Drafting of an assembly plan (optional) • Drafting of site-specific statics (optional) <p>Execution:</p> <ul style="list-style-type: none"> • Delivery of mounting system • Delivery of ramming foundation • Assembly of mounting system and modules (optional) <p>Maintenance of rack systems</p>

PIRMIN

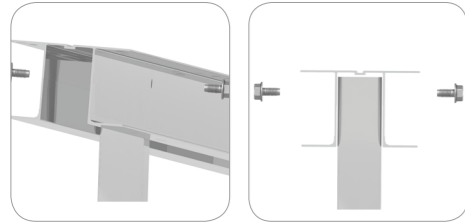
Innovative open space photovoltaic mounting system



PIRMIN - high-quality, modular mounting system

PIRMIN MOUNTING SYSTEM OVERVIEW

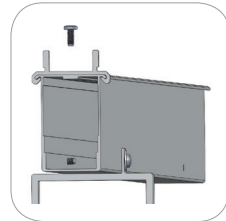
CROSS MEMBER TO SUPPORT
Attaching cross member to support



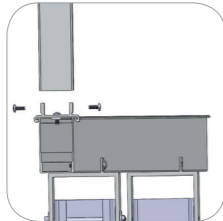
GIRDER TO CROSS MEMBER
Attaching girder to cross member



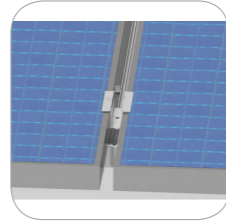
GIRDER TO SUPPORT
Attaching holder to support



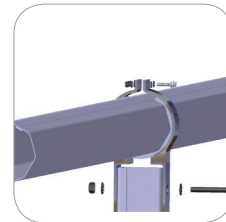
Attaching support to girder



MOUNTING MODULES
Modules can be attached with screws or clamping units



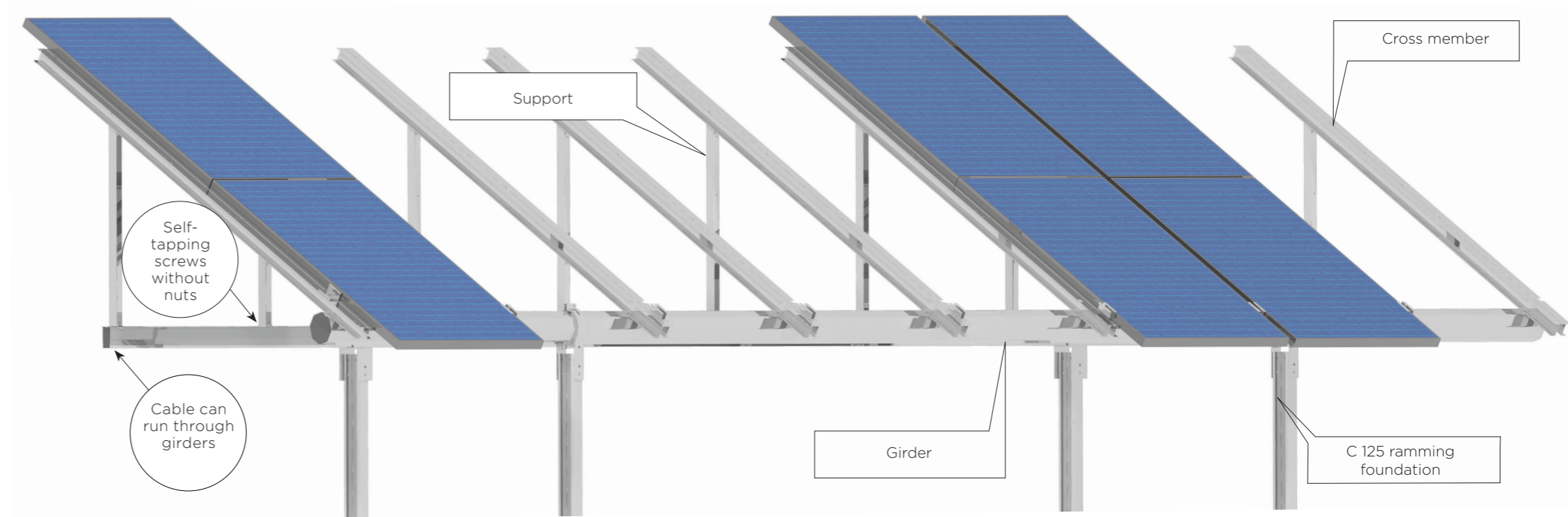
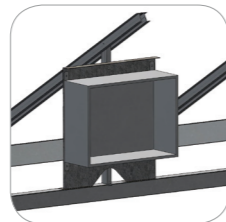
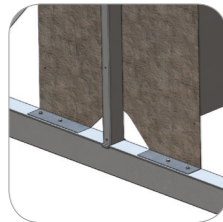
GIRDER TO FOUNDATION
Attaching front girder



Attaching back girder



MOUNTING PLATE
Attaching mounting plate to support



ACCESSORIES

WIRING CLIPS



Mounting strings to the back of cross members

GROUNDING SET



Grounding and potential equalization

MOUNTING PLATE



Inverters and string collector boxes can be attached to the mounting plate