

Open Field PV Rack Mounting System

KIVO

TF

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Mounting system KIVO TF for ground mounted photovoltaic systems, suitable for frameless thin film modules

The mounting system consists of galvanized steel mounting structures, based concrete foundations east to west or north to south positioned.

- Each bay consists of a steel braced frame, made of galvanized cold formed steel sections and can accommodate 6 to 8 p/v modules. The span between the ground supports varies between 3000 to 4200mm.
- Horizontal mounting (landscape) and vertical mounting (portrait) are possible on the KIVO TF.
- Aluminum clamps (middle & end profile, EPDM rubber) are used to fasten the modules.
- P/V module's minimal distance to the ground – 500mm or up the specifications.
- Optimized material selection, integrated functions (e.g. cable conduit) and reduced number of single parts ensure quick and easy installation.
- Only M12 screws are used.
- The mounting system is CE certified and suitable for the climate conditions of Europe.
- Solutions even for difficult terrain and geological situations, ground conditions and/or earth quake areas are available on request.

- **KIVO TF**
- **Concrete Foundation**
- **Open Field**
- **Twenty Years Warranty**
- **CE, ISO 9001 TÜV**



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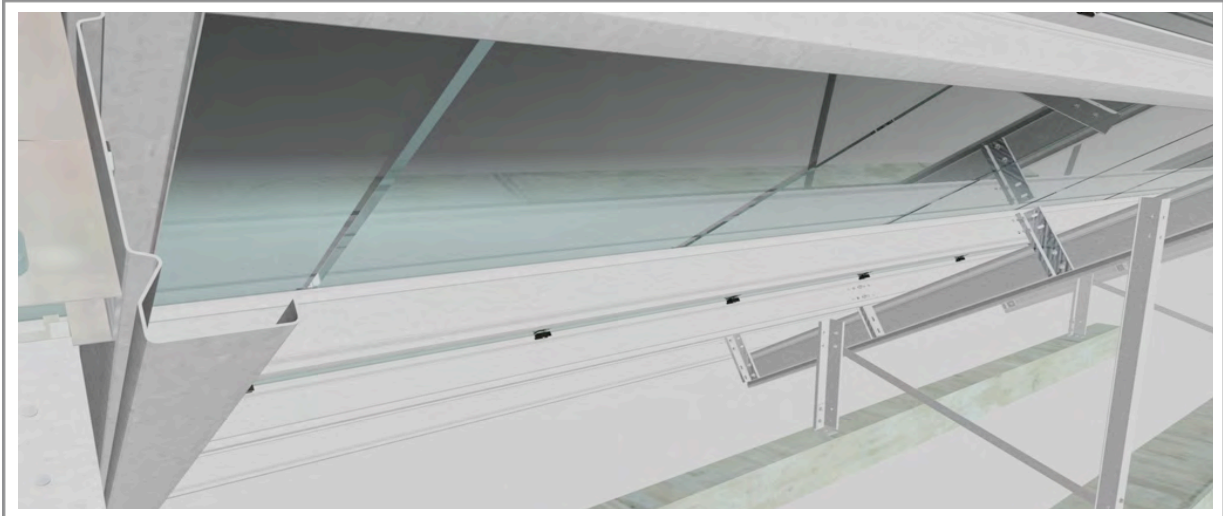
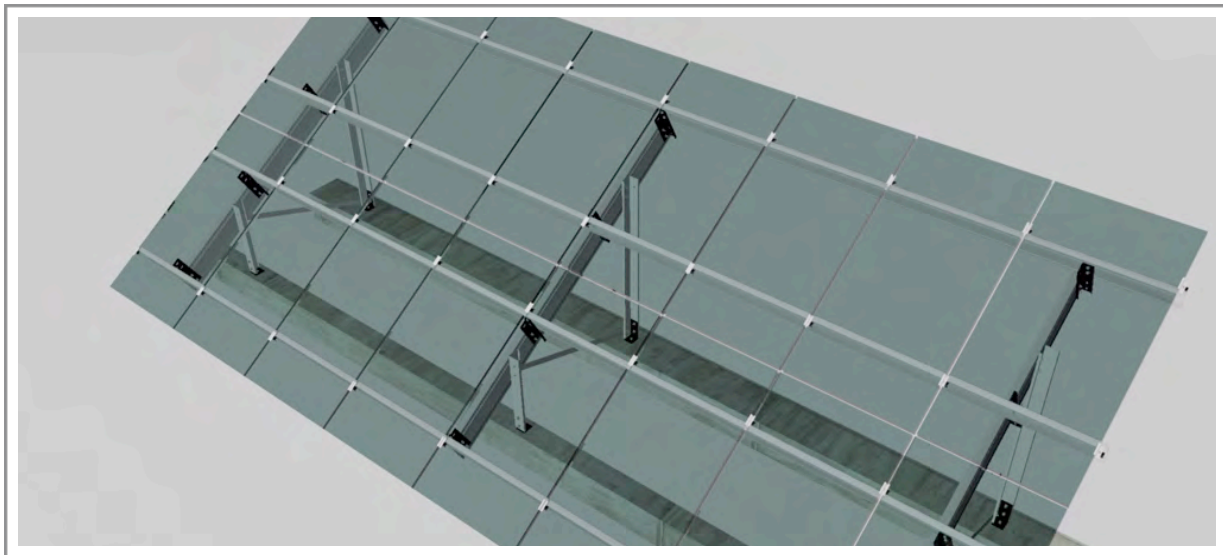
Specifications

Application	Ground mounted
Grounding	Concrete block
Soil Classes DIN 18300:	High corrosive soil (Ph<6 or Ph>9) or upon demand
Material	Cold roll-formed pre-galvanized steel profiles according to DIN EN 1327 – S320+Z or post galvanized steel profiles
Tilt Angles	upon demand from 10 to 40 degrees
Panel arrangement	up to 3 line vertical mounting(portrait)
Module Compatibility	glass/glass thin film modules, most available commercial types
Average Installation Rate	Up to 10 kWp /man per day
Accessories:	Aluminum profile depending on module specifications
Screw type	grade 8.8 (galvanized) or A2-70(Stainless steel), M12 and M8(clamps), EPDM rubber against electrolytic corrosion
Warranty	20 years
Manufacturing Location	depending on the location of an installation site
Certifications:	CE, ISO 9001 TÜV

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Images



KIVO CR Generation IV

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Design Norms & Standards

Design according to the following Norms:

Eurocode 1: Actions on structures (EC1, ENV 1991 1-1, 1-3, 1-4),

- Part 1-1: General actions – Densities, self-weight and imposed loads
 - Part 1-3: General actions – Snow loads
 - Part 1-4: General actions – Wind actions

Eurocode 3: Design of steel structures (EC3, ENV 1991-1-1, 1-3)

- Part 1-1: General rules and rules for buildings
- Part 1-3: General – Cold formed thin gauge members and sheeting
 - Part 1-8: General – Design of joints
- Part 1-10: General – Material toughness and through thickness assessment

Eurocode 8: Design of structures for earthquake resistance (EC8, ENV 1998-1-1)

- Part 5: Foundations, retaining structures and geotechnical aspects
- Part 1: General rules, seismic actions and rules for buildings
 - National Norms for Earthquake Resistance



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