

TerraFlex-Rack



Dual land utilisation for any terrain

The TerraFlex® Rack can be used flexibly. The structure is made of pre-galvanised material and is available in various designs. This mounting system is suitable for use on almost any terrain. Simple installation and efficient use of materials make the TerraFlex rack particularly attractive for large-scale projects.



Flexible use:

Can also be used on rough terrain and is height-adjustable for a wide range of applications.



Simple and environmentally friendly installation:

Modular system with minimally invasive ground anchors and few components



For farmers:

Dual land use through energy production and agriculture on the same area.



Minimally sealed floor surface:

Proven for Agri-PV and also for rocky terrain with pilot drilling.



Low levelised cost of energy (LCOE):

Efficient use of materials, simple installation, low transport costs.

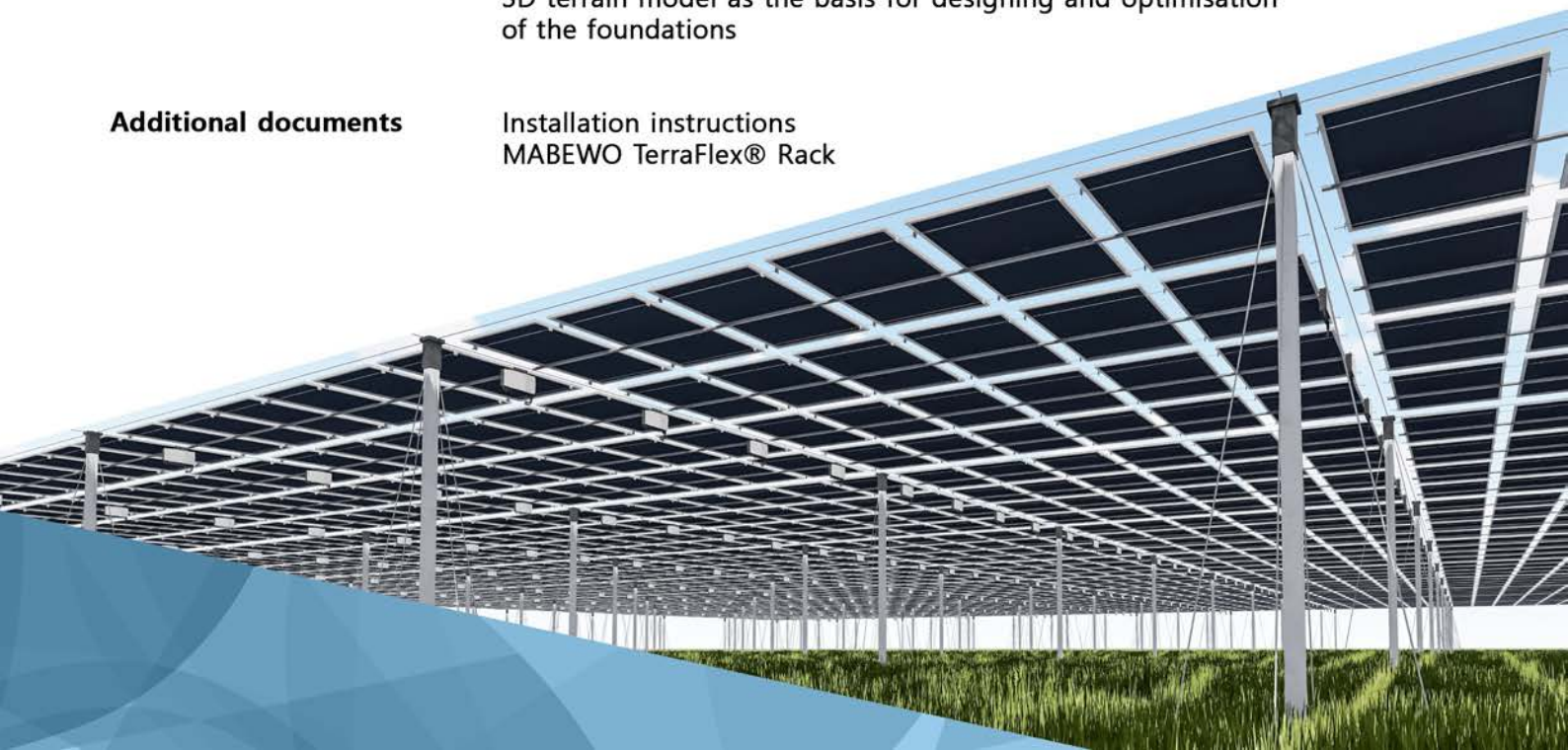


For investors:

Constant yields through solar energy production.

TECHNICAL SPECIFICATIONS

Environmental conditions	Temperature: -40°C - +85°C, relative humidity: 0-95% Altitude up to 2500m above sea level
Robustness	Reinforcement and bracing against extreme weather Wind load zones 1-5 (based on regional data and guidelines)
Terrain	Installation also possible on terrain that is difficult to access and impassable terrain Adaptable to any terrain, engineering included
Effizienzgewinn	Dual land use: agriculture and energy production Indirect solar radiation can be utilised (esp. at high Alpine altitudes)
Material	Steel (galvanised acc. to DIN EN ISO 1461), stainless steel and aluminium
Resistance to corrosion	Can be used in wet areas and near the coast
Conformity to standards	DIN SPEC 91434, DIN SPEC 91492
Planning assistance	Project-specific planning Detailed, individual project planning with geological survey and 3D analysis of the terrain
Ground anchor	Minimally invasive for different soils (standard, rock, sand). 3D terrain model as the basis for designing and optimisation of the foundations
Additional documents	Installation instructions MABEWO TerraFlex® Rack



Statics

Customised system statics based on regional data and guidelines

Structural analysis of the terrain on the basis of an external ground expertise

High load limits for snow and wind, compliance with all international standards

The load assumptions comply with DIN EN 1991-1 Part 3 & 4, DIN EN 1990, DIN EN 1999, DIN EN 1993 and the regulations of the national annex (UL 2703, ASCE 07-05, ASCE 07-10, ASCE 07-16, ASCE 07-20)

Verification of all structural components on the basis of FEM calculations or verification according to structural test setup

Modules and inverters

Framed modules with a frame height between 30-50 mm

Module configuration in any orientation and size

Option for large-format or bifacial modules

String or micro inverters, as required

Snow removal possible with reverse flow heating

Module mounting

Module mounting from below with screws, adaptable to any module type

Integrated earthing of the modules

Theft-proof thanks to screw connection

Warranty

10 years according to our warranty conditions

Would you like to know more about our solutions?
Simply contact us.

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