



ROLLFORM  
PHOTOVOLTAIC CONSTRUCTIONS

# CATALOG

## PHOTOVOLTAIC STRUCTURES · SHEDS · CARPORTS



CONSTRUCTIONS:  
▪ SINGLE-SUPPORT  
▪ DOUBLE-SUPPORT  
▪ BIFACIAL

PRESTRESSED CONCRETE  
ECONOMIC SHEDS  
INDUSTRIAL SHEDS  
CARPORTS

[www.rollform.pl](http://www.rollform.pl)



# PRESTRESSED CONCRETE STRUCTURES



# SHEDS AND CARPORTS



# STEEL STRUCTURES



# MICRO INSTALLATIONS





# ROLLFORM POLAND



## ABOUT US

Rollform Polska Sp. z o.o. delivers systems of ground structures, sheds and carports. Our products are intended for smaller, home installations as well as bigger investments on farms, in companies and production plants. Our innovative product – Prestressed Concrete construction – is an ideal solution for photovoltaic farms. Anyone looking for a safe product at an affordable price should learn more about it.



## MISSION

We support environmental protection by providing innovative constructions to Investors and Contractors of renewable energy sources. Our solutions increase safety and profitability of investments.



## VISION

We are a reliable and credible partner in business. We are a leading supplier of ground structures in Poland and a major supplier to the European market. We create innovative solutions which set the direction on the market.



## TEAM

Rollform is primarily the people who create it. It operates as an experienced, full of positive energy and great team. We share a common objective and, thanks to the fact that everyone is unique, we combine complementary skills that are necessary for accomplishing it.



## CUSTOMER

We are open to the needs of our customers. We regard everyone as a business partner. We believe that by showing honesty and respect we can build long-term business relationships.



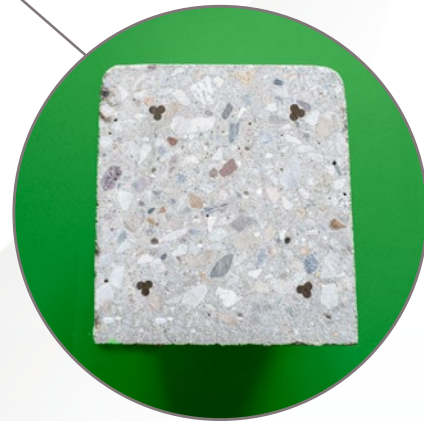
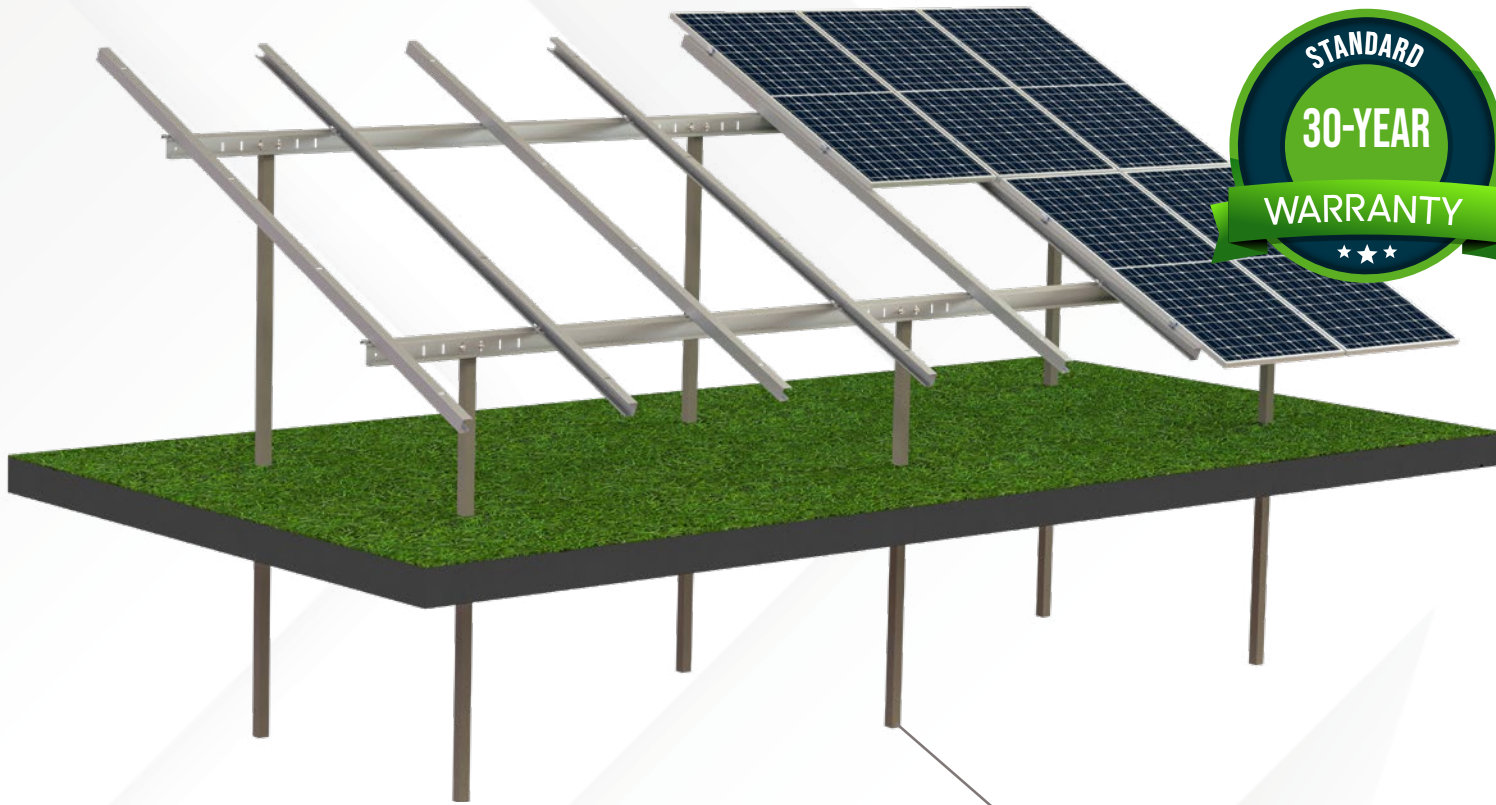
## PRODUCT

Safety. Certainty. Economics. Innovation. Availability. These are essential characteristics we take into account when creating our products for you.



# Prestressed Concrete STRUCTURE

available fixings  
driven prestressed  
concrete pile



## Why Prestressed Concrete

- ✓ Significant price difference over steel
- ✓ Longer warranty of 30 years
- ✓ Greater resistance to weather conditions
- ✓ Simple and intuitive assembly
- ✓ One type of screws for the entire construction
- ✓ Possibility of pile driving

## Properties

- C40/C50 class concrete
- construction for each module size
- **Magnelis®** corrosion protection for steel components
- **25 year guarantee** for **Magnelis®** coating
- **30 year guarantee** for elements in the ground

## Standards

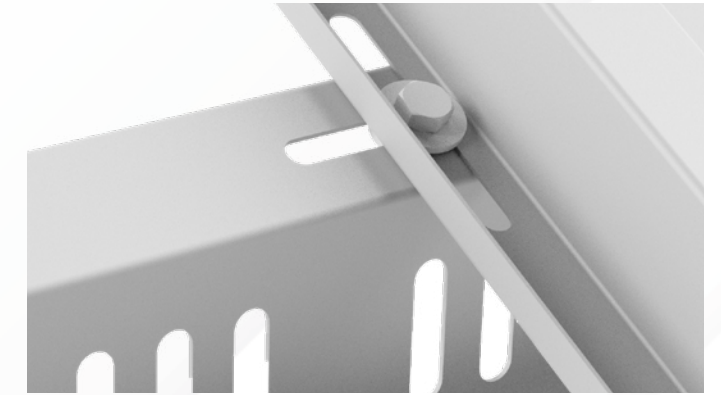
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PN-EN 1993-1-3:2008P,  
PN-EN 1993-1-5:2008P  
PN-EN 1992-1-1:2008

# INNOVATIVE PHOTOVOLTAIC STRUCTURE

The sudden increase in raw material prices on the market in 2021 accelerated the work on finding an alternative to fully steel tables. Rollform engineers focused on implementing an unprecedented solution in such products – prestressed concrete Strunobeton poles – in free-standing support structures.



The structure system, to which photovoltaic modules are mounted, was designed using cold-formed steel Profless protected by a zinc-magnesium-aluminum coating (Magnelis®), for which the manufacturer of the sheets provides a 25-year warranty. The system transfers the designed loads in accordance with the climatic standards PN-EN 1991-1-3 for snow load and PN-EN 1991-1-4 for wind load.



To ensure proper performance parameters, it was necessary to use high-strength C40/C50 prestressed concrete. Prestressed concrete is a variant of reinforced concrete reinforced with steel strands that form the skeleton of each of the poles. The steel reinforcement is actively used to introduce internal forces that counteract deformations, cracks, and fissures.

A wide range of structural solutions allows for flexibility in the use of photovoltaic modules of different sizes. Panels of any size can be mounted both vertically (V arrangement) and horizontally (H arrangement). There are also solutions for increasingly popular bifacial modules. Additionally, the design incorporates a number of innovative solutions that ensure easy installation



We conducted a compressive strength test on concrete using concrete samples. After seven days, the concrete achieved a compressive strength of 70 MPa. The test shows that the strength of the concrete is exceptionally high and has a beneficial effect on the entire structure. As a result, the columns exhibit long service life and are resistant to damage caused by loads and external factors, including moisture.



Photograph of a 5MW Prestressed Concrete installation



# N2V-STR

## Prestressed Concrete STRUCTURE

number of rows  
2

orientation of modules  
vertical

inclination angle  
25°/30°/35°

available mounting methods  
driven pile made of  
Prestressed Concrete



### Zones and Profiles

The structure is adapted to climatic loads, taking into account the specifics of the selected location, including wind zones, snow zones, and elevation above sea level.

### Properties

- C40/C50 class concrete
- Structure for every module dimension
- Anti-corrosion protection of steel elements with **Magnelis®**
- **25 year warranty** for **Magnelis®** coating
- **30 year guarantee** for elements in the ground

### Standards

PN-EN 1090-2, PN-EN 1990:2004,  
PN-EN 1991-1-3, PN-EN 1991-1-4,  
PN-EN 1993-1-1:2006P,  
PN-EN 1993-1-3:2008P,  
PN-EN 1993-1-5:2008P  
PN-EN 1992-1-1:2008

## Prestressed Concrete BIFACIAL STRUCTURE

number of rows  
2

orientation of modules  
vertical

inclination angle  
25°/30°/35°

available mounting methods  
driven pile made of  
Prestressed Concrete



### Zones and Profiles

The structure is adapted to climatic loads, taking into account the specifics of the selected location, including wind zones, snow zones, and elevation above sea level.

### Properties

- C40/C50 class concrete
- Structure for every module dimension
- Anti-corrosion protection of steel elements with **Magnelis®**
- **25 year warranty** for **Magnelis®** coating
- **30 year guarantee** for elements in the ground

### Standards

PN-EN 1090-2, PN-EN 1990:2004,  
PN-EN 1991-1-3, PN-EN 1991-1-4,  
PN-EN 1993-1-1:2006P,  
PN-EN 1993-1-3:2008P,  
PN-EN 1993-1-5:2008P  
PN-EN 1992-1-1:2008





# N3V-STR

## Prestressed Concrete STRUCTURE

number of rows  
3

orientation of modules  
vertical

inclination angle  
25°/30°

available mounting methods  
driven pile made of  
Prestressed Concrete



### Zones and Profiles

The structure is adapted to climatic loads, taking into account the specifics of the selected location, including wind zones, snow zones, and elevation above sea level.

### Properties

- C40/C50 class concrete
- Structure for every module dimension
- Anti-corrosion protection of steel elements with **Magnelis®**
- **25 year warranty** for **Magnelis®** coating
- **30 year guarantee** for elements in the ground

### Standards

PN-EN 1090-2, PN-EN 1990:2004,  
PN-EN 1991-1-3, PN-EN 1991-1-4,  
PN-EN 1993-1-1:2006P,  
PN-EN 1993-1-3:2008P,  
PN-EN 1993-1-5:2008P  
PN-EN 1992-1-1:2008

## Prestressed Concrete STRUCTURE

# N3H-STR

number of rows  
3

orientation of modules  
horizontal

inclination angle  
25°/30°/35°

available mounting methods  
driven pile made of  
Prestressed Concrete



### Zones and Profiles

The structure is adapted to climatic loads, taking into account the specifics of the selected location, including wind zones, snow zones, and elevation above sea level.

### Properties

- C40/C50 class concrete
- Structure for every module dimension
- Anti-corrosion protection of steel elements with **Magnelis®**
- **25 year warranty** for **Magnelis®** coating
- **30 year guarantee** for elements in the ground

### Standards

PN-EN 1090-2, PN-EN 1990:2004,  
PN-EN 1991-1-3, PN-EN 1991-1-4,  
PN-EN 1993-1-1:2006P,  
PN-EN 1993-1-3:2008P,  
PN-EN 1993-1-5:2008P  
PN-EN 1992-1-1:2008





# N4H-STR

## Prestressed Concrete STRUCTURE

number of rows  
4

orientation of modules  
horizontal

inclination angle  
25°/30°/35°

available mounting methods  
driven pile made of  
Prestressed Concrete



### Zones and Profiles

The structure is adapted to climatic loads, taking into account the specifics of the selected location, including wind zones, snow zones, and elevation above sea level.

### Properties

- C40/C50 class concrete
- Structure for every module dimension
- Anti-corrosion protection of steel elements with **Magnelis®**
- **25 year warranty** for **Magnelis®** coating
- **30 year guarantee** for elements in the ground

### Standards

PN-EN 1090-2, PN-EN 1990:2004,  
PN-EN 1991-1-3, PN-EN 1991-1-4,  
PN-EN 1993-1-1:2006P,  
PN-EN 1993-1-3:2008P,  
PN-EN 1993-1-5:2008P  
PN-EN 1992-1-1:2008

## Prestressed Concrete BIFACIAL STRUCTURE

number of rows  
4

orientation of modules  
horizontal

inclination angle  
25°/30°

available mounting methods  
driven pile made of  
Prestressed Concrete



### Zones and Profiles

The structure is adapted to climatic loads, taking into account the specifics of the selected location, including wind zones, snow zones, and elevation above sea level.

### Properties

- C40/C50 class concrete
- Structure for every module dimension
- Anti-corrosion protection of steel elements with **Magnelis®**
- **25 year warranty** for **Magnelis®** coating
- **30 year guarantee** for elements in the ground

### Standards

PN-EN 1090-2, PN-EN 1990:2004,  
PN-EN 1991-1-3, PN-EN 1991-1-4,  
PN-EN 1993-1-1:2006P,  
PN-EN 1993-1-3:2008P,  
PN-EN 1993-1-5:2008P  
PN-EN 1992-1-1:2008



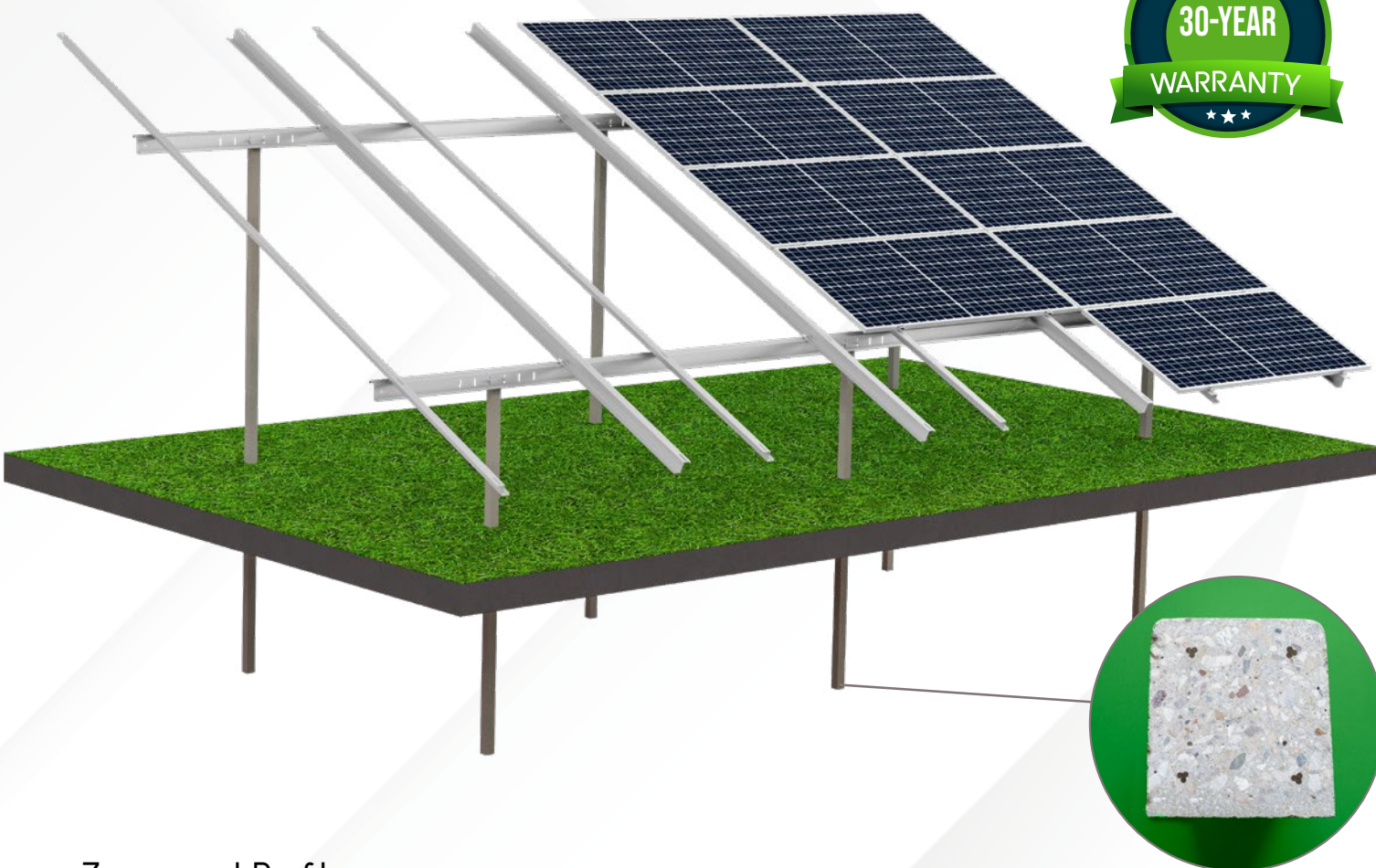


number of rows  
5

orientation of modules  
horizontal

inclination angle  
25°/30°

available mounting methods  
driven pile made of  
Prestressed Concrete



### Zones and Profiles

The structure is adapted to climatic loads, taking into account the specifics of the selected location, including wind zones, snow zones, and elevation above sea level.

### Properties

- C40/C50 class concrete
- Structure for every module dimension
- Anti-corrosion protection of steel elements with **Magnelis®**
- **25 year warranty** for **Magnelis®** coating
- **30 year guarantee** for elements in the ground

### Standards

PN-EN 1090-2, PN-EN 1990:2004,  
PN-EN 1991-1-3, PN-EN 1991-1-4,  
PN-EN 1993-1-1:2006P,  
PN-EN 1993-1-3:2008P,  
PN-EN 1993-1-5:2008P  
PN-EN 1992-1-1:2008

number of rows  
1

orientation of modules  
vertical

inclination angle  
following the sun

available mounting methods  
driven pile made of  
Prestressed Concrete



### Tracker

- Single-axis tracker structure enabling solar radiation tracking
- Optimal, automatic panel positioning throughout the day
- Fully automatic and maintenance-free system
- Compatibility with any photovoltaic module
- Enhanced solar energy harvesting efficiency
- Wind resistance mode
- Snow removal mode
- Lower construction cost compared to traditional steel structures

### Properties

- C40/C50 class concrete
- Structure for every module dimension
- Anti-corrosion protection of steel elements with **Magnelis®**
- **25 year warranty** for **Magnelis®** coating
- **30 year guarantee** for elements in the ground

### Standards

PN-EN 1090-2, PN-EN 1990:2004,  
PN-EN 1991-1-3, PN-EN 1991-1-4,  
PN-EN 1993-1-1:2006P,  
PN-EN 1993-1-3:2008P,  
PN-EN 1993-1-5:2008P  
PN-EN 1992-1-1:2008



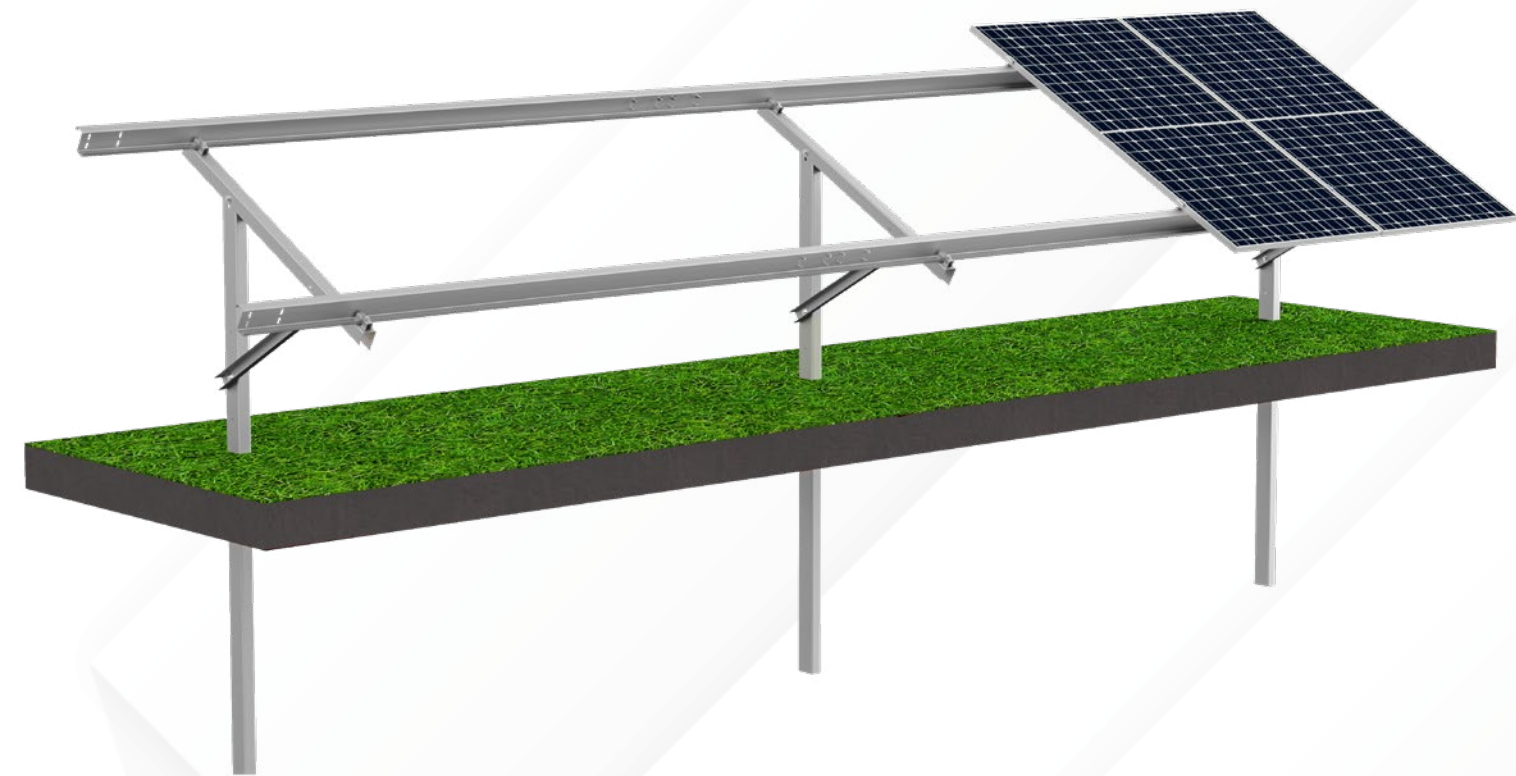


number of rows  
1

orientation of modules  
vertical

inclination angle  
25°/30°/35°

available fixings  
driven steel pile



### Zones and Profiles

The structure is adapted to climatic loads, taking into account the specifics of the selected location, including wind zones, snow zones, and elevation above sea level.

### Properties

- Structure for every module dimension
- Anti-corrosion protection of steel elements with **Magnelis®**
- **25 year warranty** for **Magnelis®** coating
- **25 year guarantee** for elements in the ground

### Standards

PN-EN 1090-2, PN-EN 1990:2004,  
PN-EN 1991-1-3, PN-EN 1991-1-4,  
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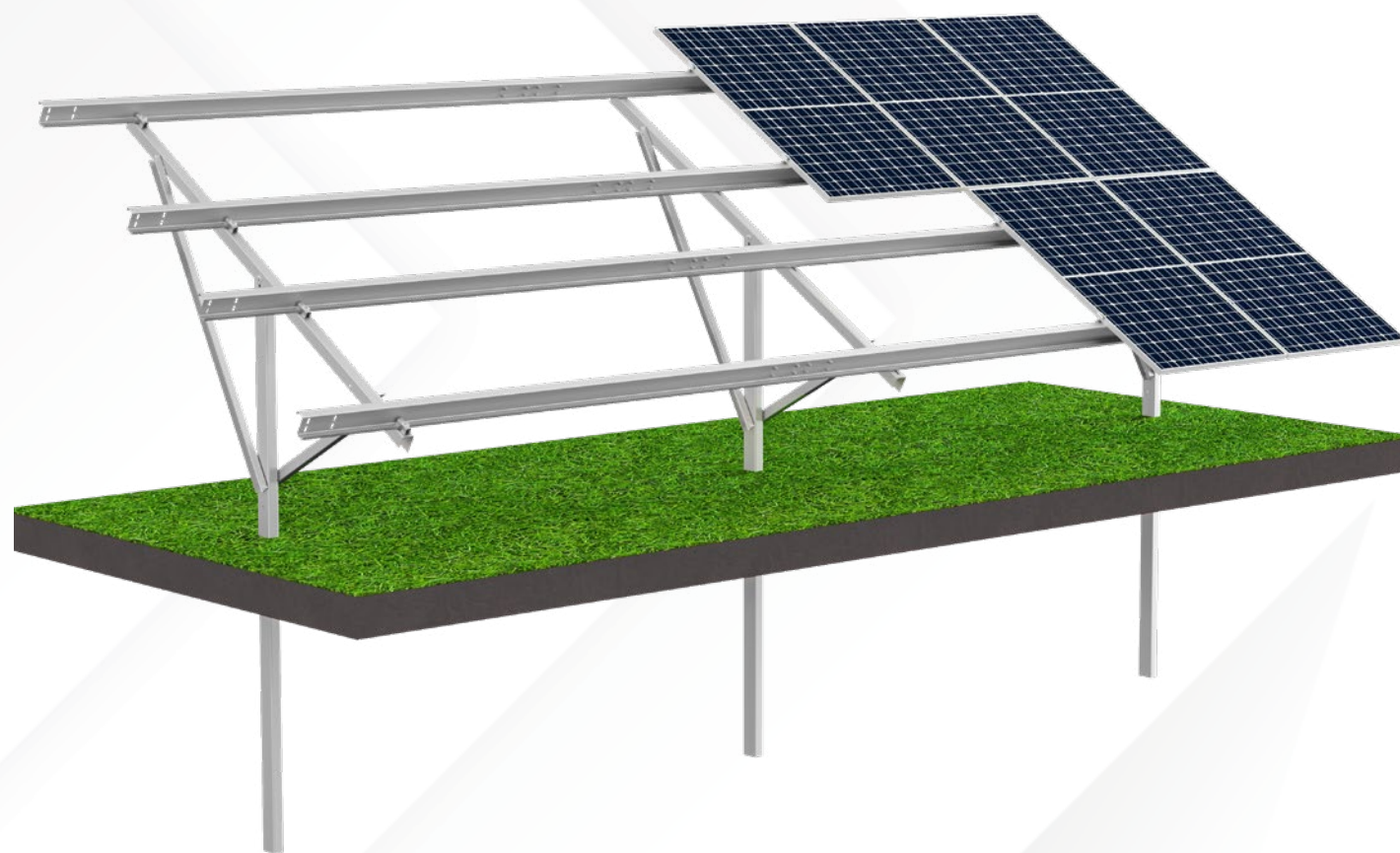


number of rows  
2

orientation of modules  
vertical

inclination angle  
25°/30°

available fixings  
driven steel pile



### Zones and Profiles

The structure is adapted to climatic loads, taking into account the specifics of the selected location, including wind zones, snow zones, and elevation above sea level.

### Properties

- structure for modules max. length 2150mm
- Anti-corrosion protection of steel elements with **Magnelis®**
- **25 year warranty** for **Magnelis®** coating
- **25 year guarantee** for elements in the ground
- The structure can be adapted to other zones.

### Standards

PN-EN 1090-2, PN-EN 1990:2004,  
PN-EN 1991-1-3, PN-EN 1991-1-4,  
PN-EN 1993-1-1:2006P,  
PN-EN 1993-1-3:2008P,  
PN-EN 1993-1-5:2008P  
PN-EN 1992-1-1:2008

number of rows  
2

orientation of modules  
horizontal

inclination angle  
25°/30°/35°

available fixings  
driven steel pile  
or assembly on the  
foundation feet



### Zones and Profiles

The structure is adapted to climatic loads, taking into account the specifics of the selected location, including wind zones, snow zones, and elevation above sea level.

### Properties

- Structure for every module dimension
- Anti-corrosion protection of steel elements with **Magnelis®**
- **25 year warranty** for **Magnelis®** coating
- **25 year guarantee** for elements in the ground

### Standards

PN-EN 1090-2, PN-EN 1990:2004,  
PN-EN 1991-1-3, PN-EN 1991-1-4,  
PN-EN 1993-1-1:2006P,  
PN-EN 1993-1-3:2008P,  
PN-EN 1993-1-5:2008P  
PN-EN 1992-1-1:2008



number of rows  
3

orientation of modules  
vertical

inclination angle  
25°/30°

available fixings  
driven steel pile  
or assembly on the  
foundation feet



### Zones and Profiles

The structure is adapted to climatic loads, taking into account the specifics of the selected location, including wind zones, snow zones, and elevation above sea level.

### Properties

- Structure for every module dimension
- Anti-corrosion protection of steel elements with **Magnelis®**
- **25 year warranty** for **Magnelis®** coating
- **25 year guarantee** for elements in the ground

### Standards

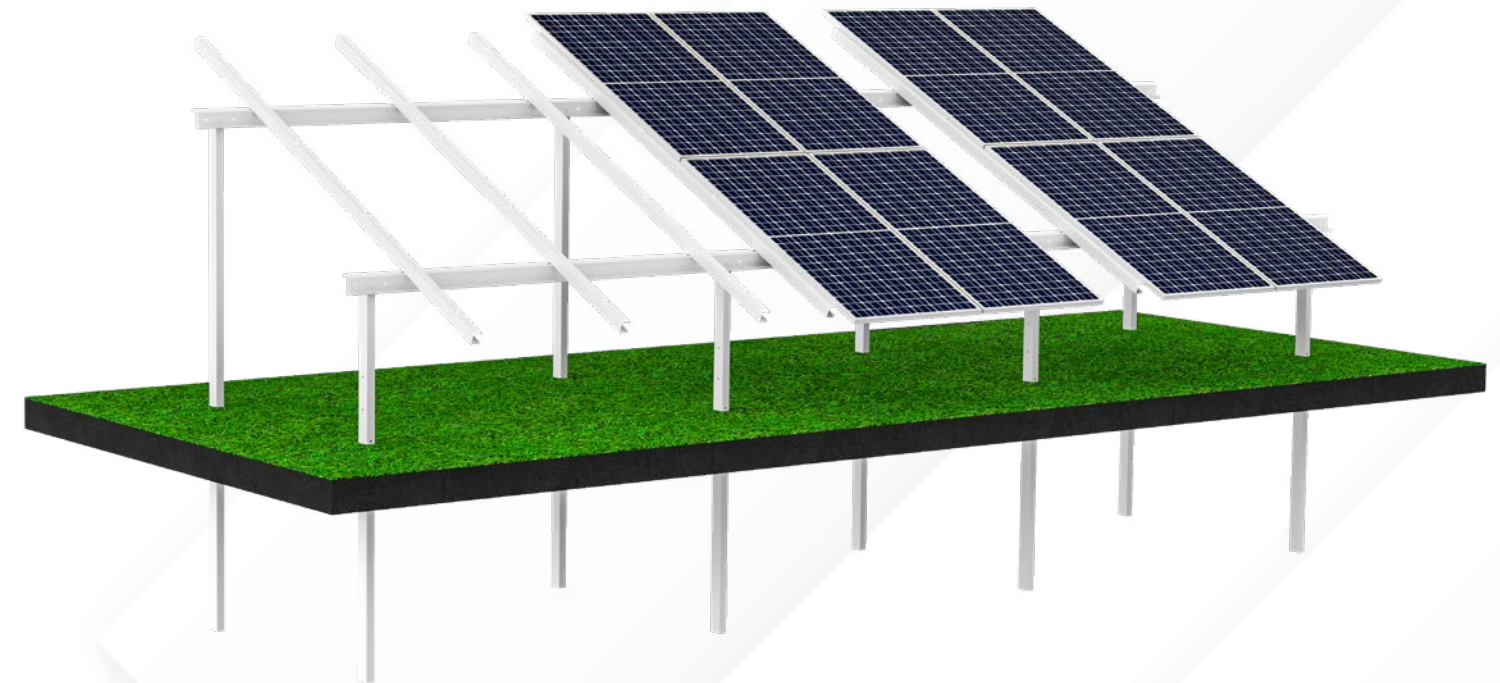
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PN-EN 1993-1-1:2006P,  
PN-EN 1993-1-3:2008P,  
PN-EN 1993-1-5:2008P  
PN-EN 1992-1-1:2008

number of rows  
2

orientation of modules  
vertical

inclination angle  
25°/30°/35°

available fixings  
driven steel pile



### Zones and Profiles

The structure is adapted to climatic loads, taking into account the specifics of the selected location, including wind zones, snow zones, and elevation above sea level.

### Properties

- Structure for every module dimension
- Anti-corrosion protection of steel elements with **Magnelis®**
- **25 year warranty** for **Magnelis®** coating
- **25 year guarantee** for elements in the ground

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PN-EN 1993-1-3:2008P,  
PN-EN 1993-1-5:2008P  
PN-EN 1992-1-1:2008

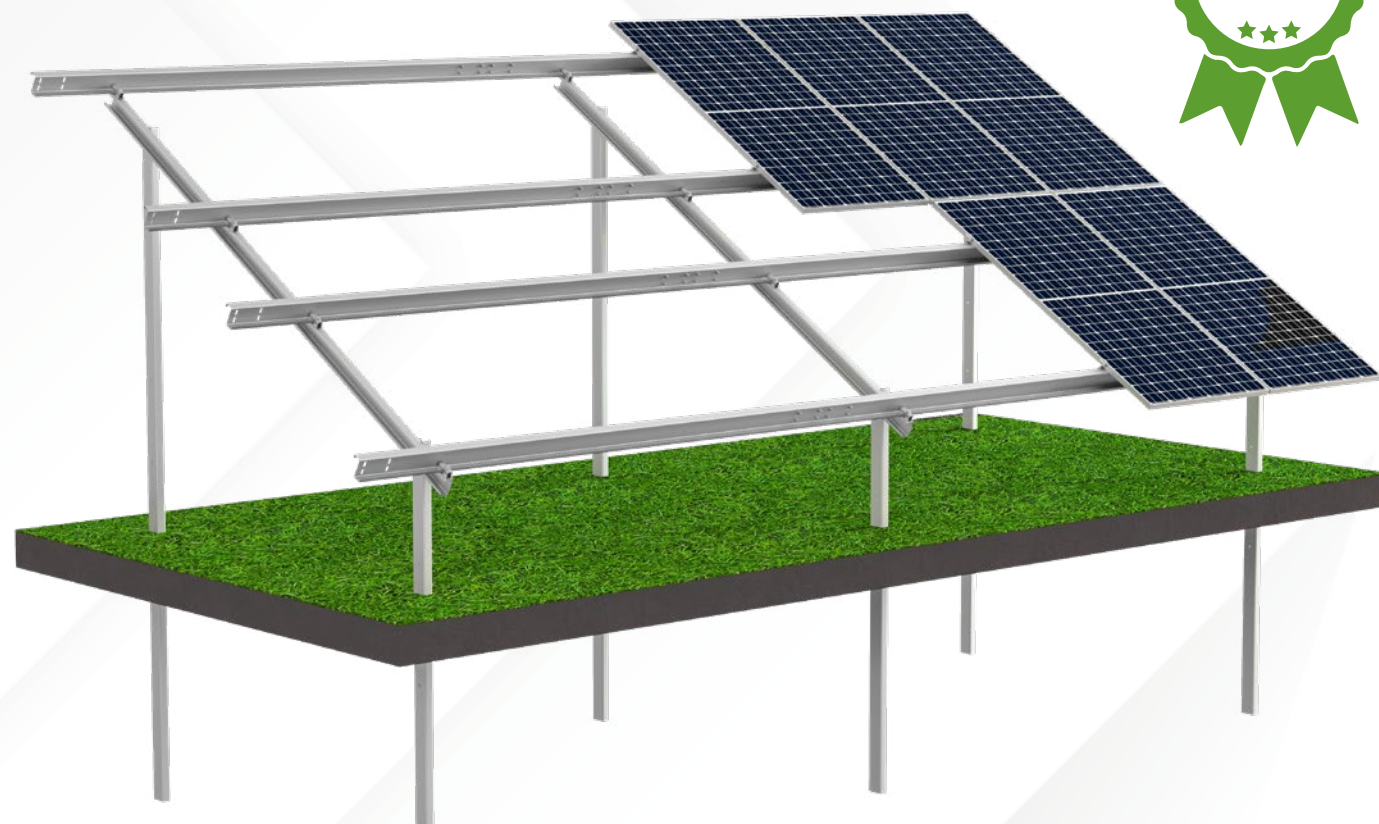


number of rows  
2

orientation of modules  
vertical

inclination angle  
25°/30°/35°

available fixings  
driven steel pile  
or assembly on the  
foundation feet



### Zones and Profiles

The structure is adapted to climatic loads, taking into account the specifics of the selected location, including wind zones, snow zones, and elevation above sea level.

### Properties

- Structure for every module dimension
- Anti-corrosion protection of steel elements with **Magnelis®**
- **25 year warranty** for **Magnelis®** coating
- **25 year guarantee** for elements in the ground

### Standards

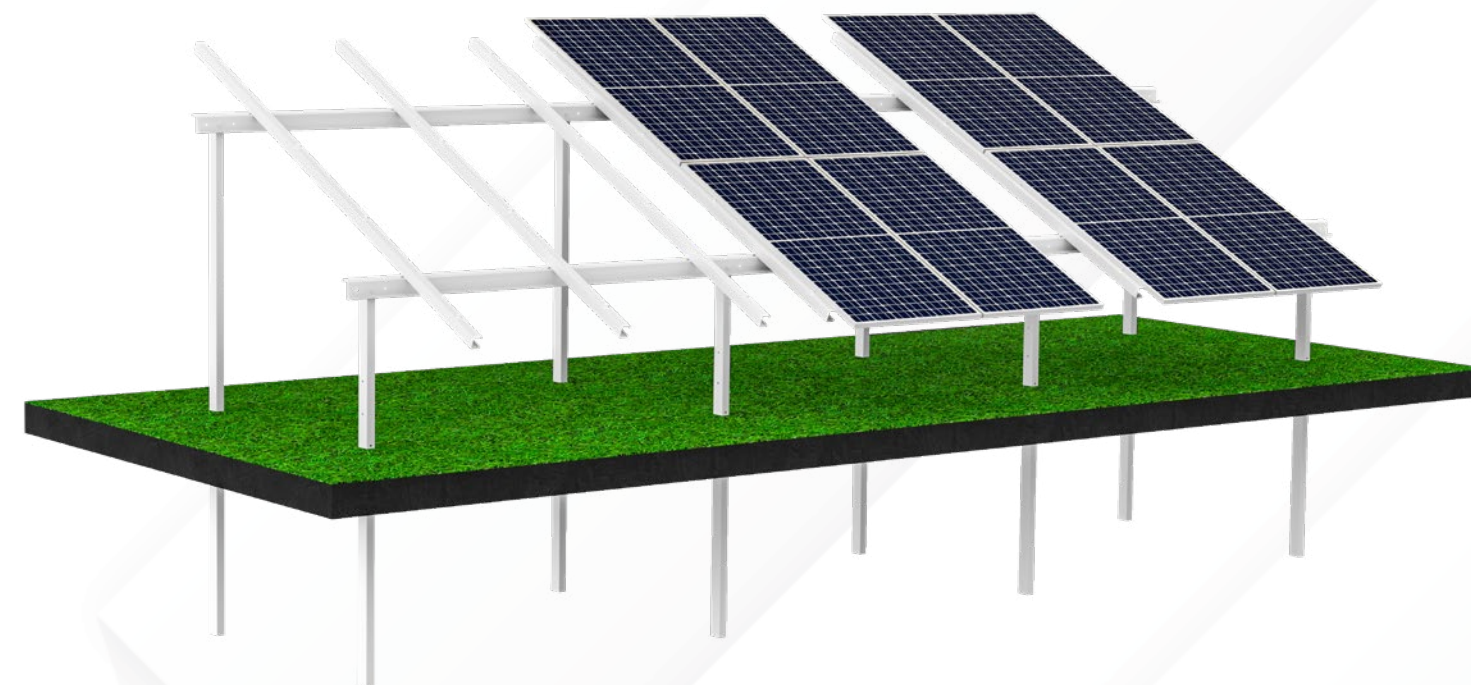
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PN-EN 1993-1-3:2008P,  
PN-EN 1993-1-5:2008P  
PN-EN 1992-1-1:2008

number of rows  
2

orientation of modules  
vertical

inclination angle  
25°/30°/35°

available fixings  
driven steel pile



### Zones and Profiles

The structure is adapted to climatic loads, taking into account the specifics of the selected location, including wind zones, snow zones, and elevation above sea level.

### Properties

- Structure for every module dimension
- Anti-corrosion protection of steel elements with **Magnelis®**
- **25 year warranty** for **Magnelis®** coating
- **25 year guarantee** for elements in the ground

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PN-EN 1991-1-3, PN-EN 1991-1-4,  
PN-EN 1993-1-1:2006P,  
PN-EN 1993-1-3:2008P,  
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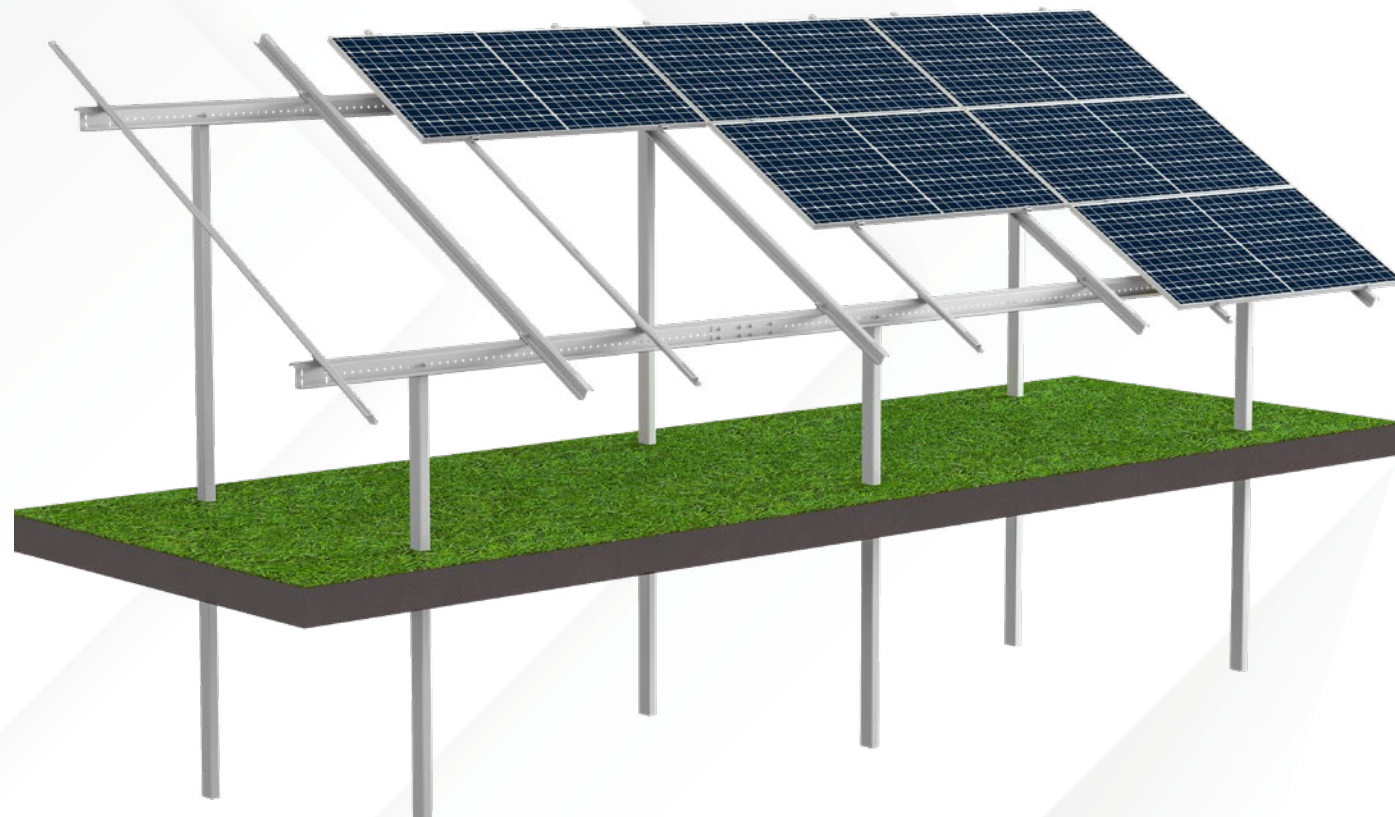


number of rows  
3

orientation of modules  
horizontal

inclination angle  
30°  
(25°/35° on individual order)

available fixings  
driven steel pile  
or assembly on the  
foundation feet



### Zones and Profiles

The structure is adapted to climatic loads, taking into account the specifics of the selected location, including wind zones, snow zones, and elevation above sea level.

### Properties

- Structure for every module dimension
- Anti-corrosion protection of steel elements with **Magnelis®**
- 25 year warranty** for **Magnelis®** coating
- 25 year guarantee** for elements in the ground

### Standards

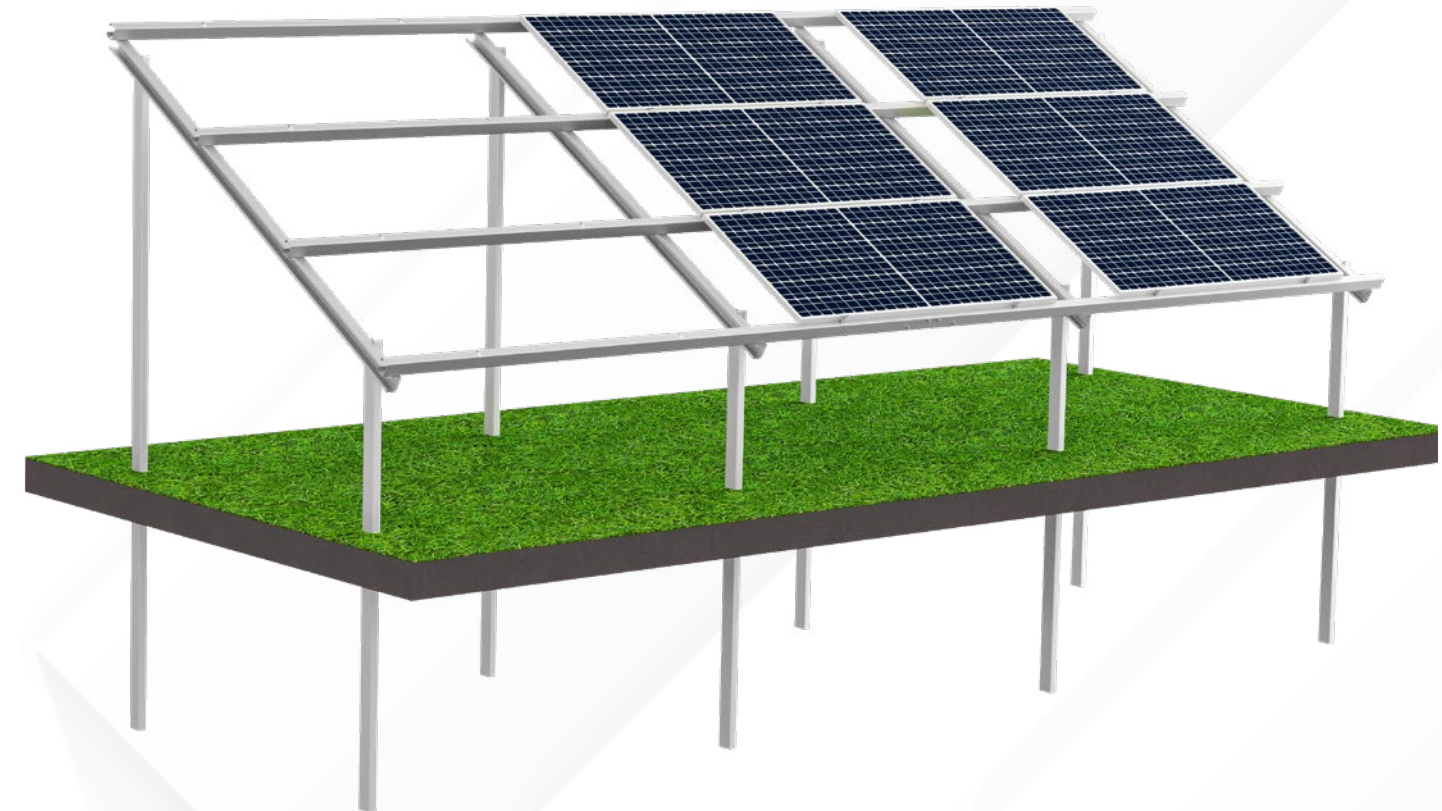
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PN-EN 1991-1-3, PN-EN 1991-1-4,  
PN-EN 1993-1-1:2006P,  
PN-EN 1993-1-3:2008P,  
PN-EN 1993-1-5:2008P  
PN-EN 1992-1-1:2008

number of rows  
3

orientation of modules  
horizontal

inclination angle  
25°/30°/35°

available fixings  
driven steel pile



### Zones and Profiles

The structure is adapted to climatic loads, taking into account the specifics of the selected location, including wind zones, snow zones, and elevation above sea level.

### Properties

- Structure for every module dimension
- Anti-corrosion protection of steel elements with **Magnelis®**
- 25 year warranty** for **Magnelis®** coating
- 25 year guarantee** for elements in the ground

### Standards

PN-EN 1090-2, PN-EN 1990:2004,  
PN-EN 1991-1-3, PN-EN 1991-1-4,  
PN-EN 1993-1-1:2006P,  
PN-EN 1993-1-3:2008P,  
PN-EN 1993-1-5:2008P  
PN-EN 1992-1-1:2008



number of rows  
4

orientation of modules  
horizontal

inclination angle  
30°  
(25°/35° on individual order)

available fixings  
driven steel pile  
or assembly on the  
foundation feet



### Zones and Profiles

The structure is adapted to climatic loads, taking into account the specifics of the selected location, including wind zones, snow zones, and elevation above sea level.

### Properties

- Structure for every module dimension
- Anti-corrosion protection of steel elements with **Magnelis®**
- 25 year warranty** for **Magnelis®** coating
- 25 year guarantee** for elements in the ground

### Standards

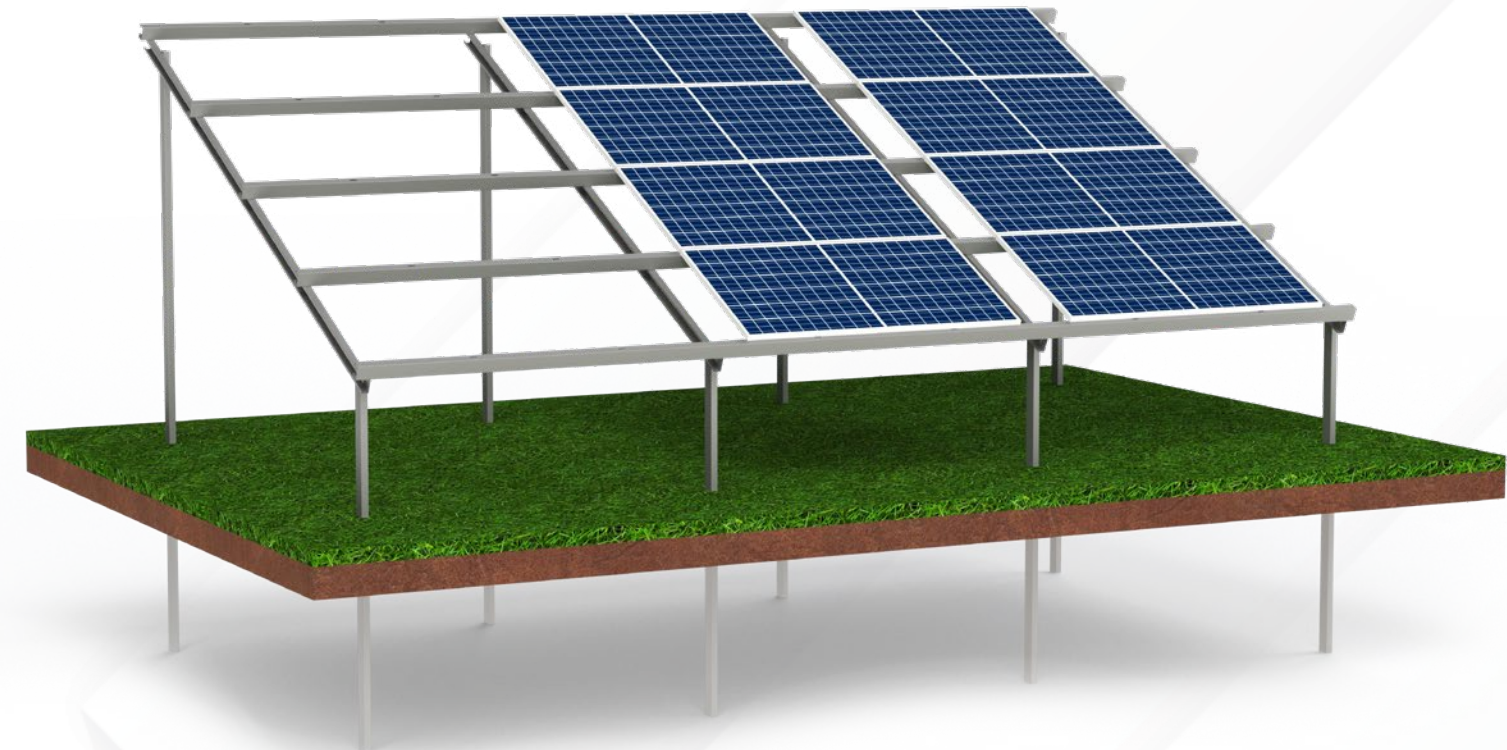
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PN-EN 1993-1-1:2006P,  
PN-EN 1993-1-3:2008P,  
PN-EN 1993-1-5:2008P  
PN-EN 1992-1-1:2008

number of rows  
4

orientation of modules  
horizontal

inclination angle  
25°/30°/35°

available fixings  
driven steel pile



### Zones and Profiles

The structure is adapted to climatic loads, taking into account the specifics of the selected location, including wind zones, snow zones, and elevation above sea level.

### Properties

- Structure for every module dimension
- Anti-corrosion protection of steel elements with **Magnelis®**
- 25 year warranty** for **Magnelis®** coating
- 25 year guarantee** for elements in the ground

### Standards

PN-EN 1090-2, PN-EN 1990:2004,  
PN-EN 1991-1-3, PN-EN 1991-1-4,  
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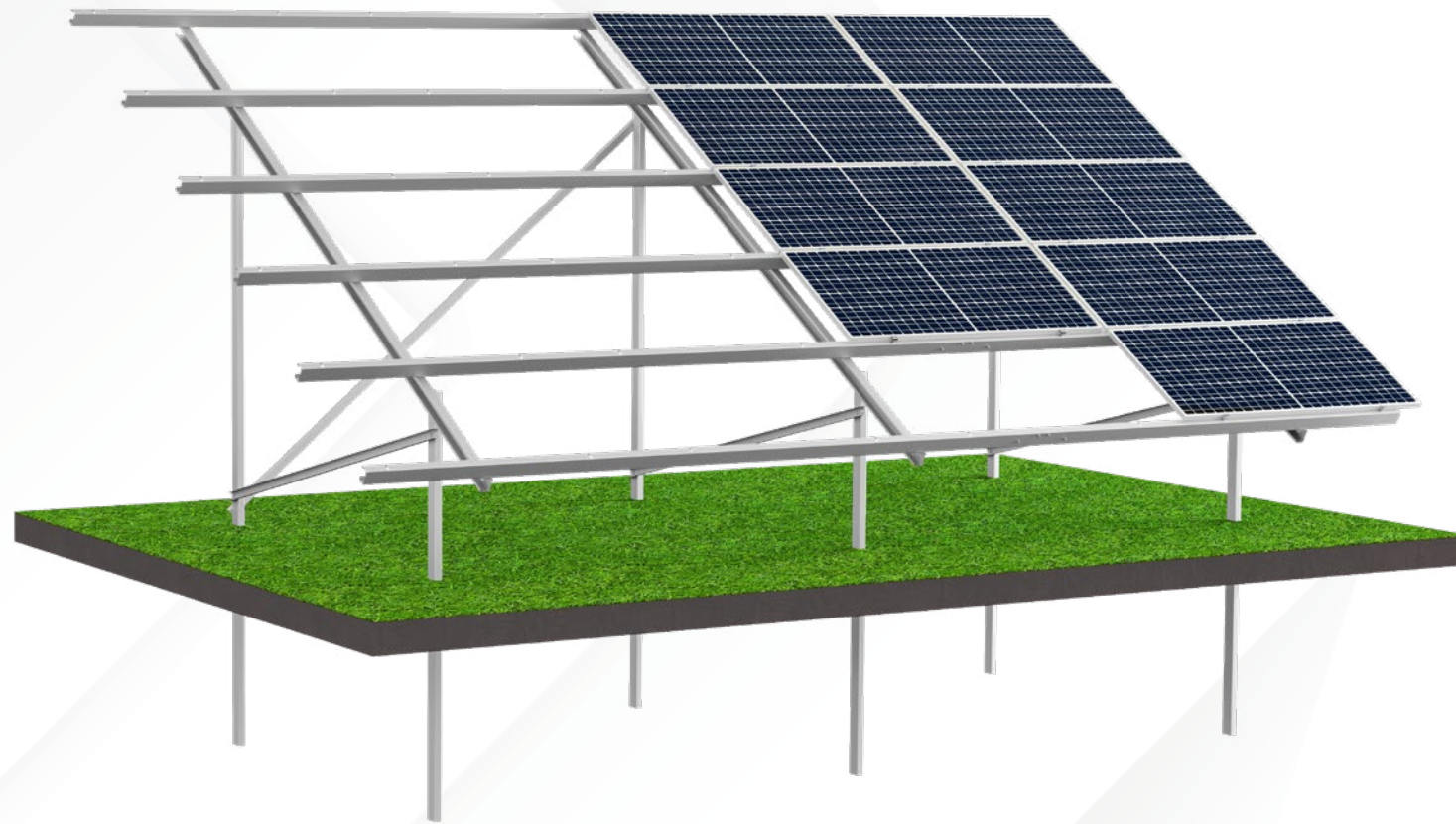


number of rows  
5

orientation of modules  
horizontal

inclination angle  
25°/30°

available fixings  
driven steel pile  
or assembly on the  
foundation feet



### Zones and Profiles

The structure is adapted to climatic loads, taking into account the specifics of the selected location, including wind zones, snow zones, and elevation above sea level.

### Properties

- Structure for every module dimension
- Anti-corrosion protection of steel elements with **Magnelis®**
- **25 year warranty** for **Magnelis®** coating
- **25 year guarantee** for elements in the ground

### Standards

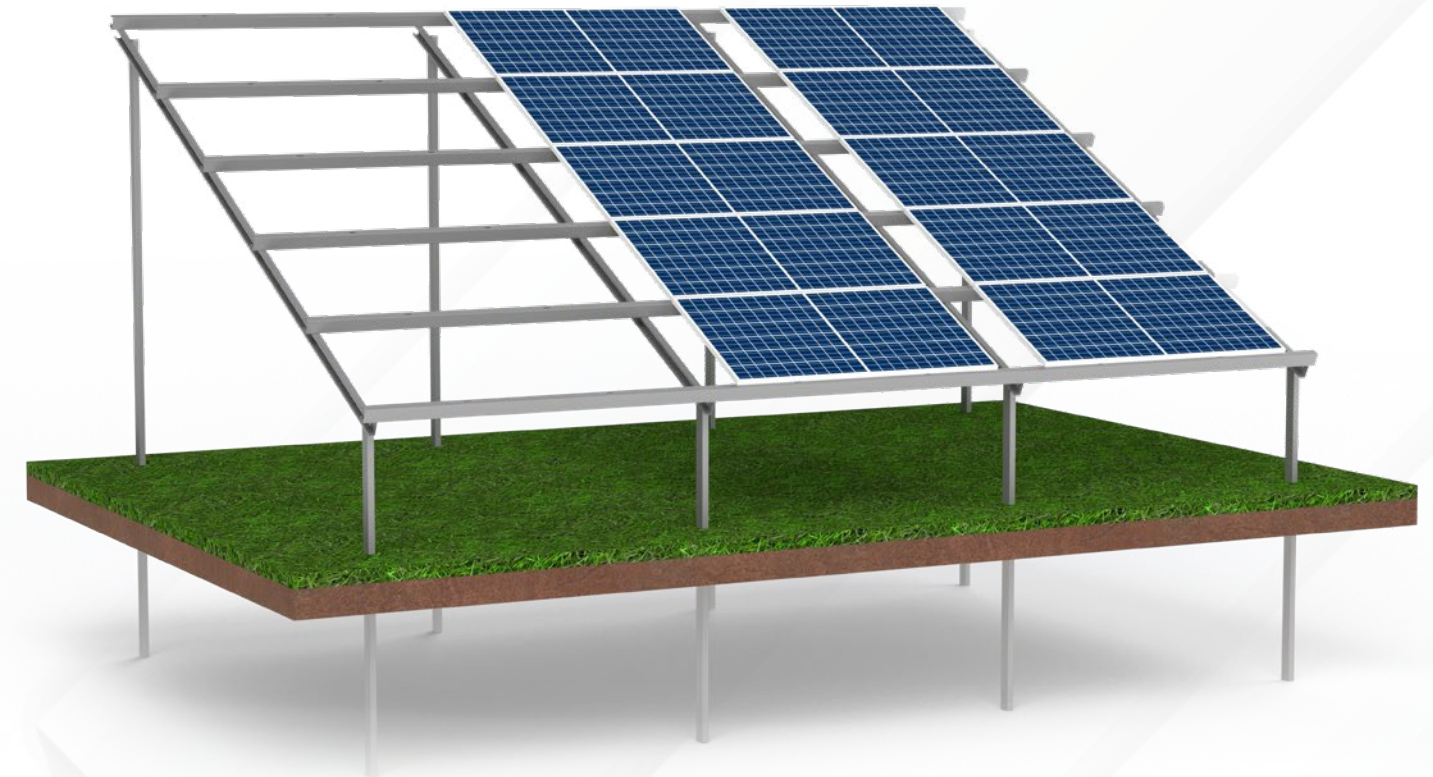
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PN-EN 1993-1-5:2008P  
PN-EN 1992-1-1:2008

number of rows  
5

orientation of modules  
horizontal

inclination angle  
25°/30°/35°

available fixings  
driven steel pile



### Zones and Profiles

The structure is adapted to climatic loads, taking into account the specifics of the selected location, including wind zones, snow zones, and elevation above sea level.

### Properties

- Structure for every module dimension
- Anti-corrosion protection of steel elements with **Magnelis®**
- **25 year warranty** for **Magnelis®** coating
- **25 year guarantee** for elements in the ground

### Standards

PN-EN 1090-2, PN-EN 1990:2004,  
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# N6H

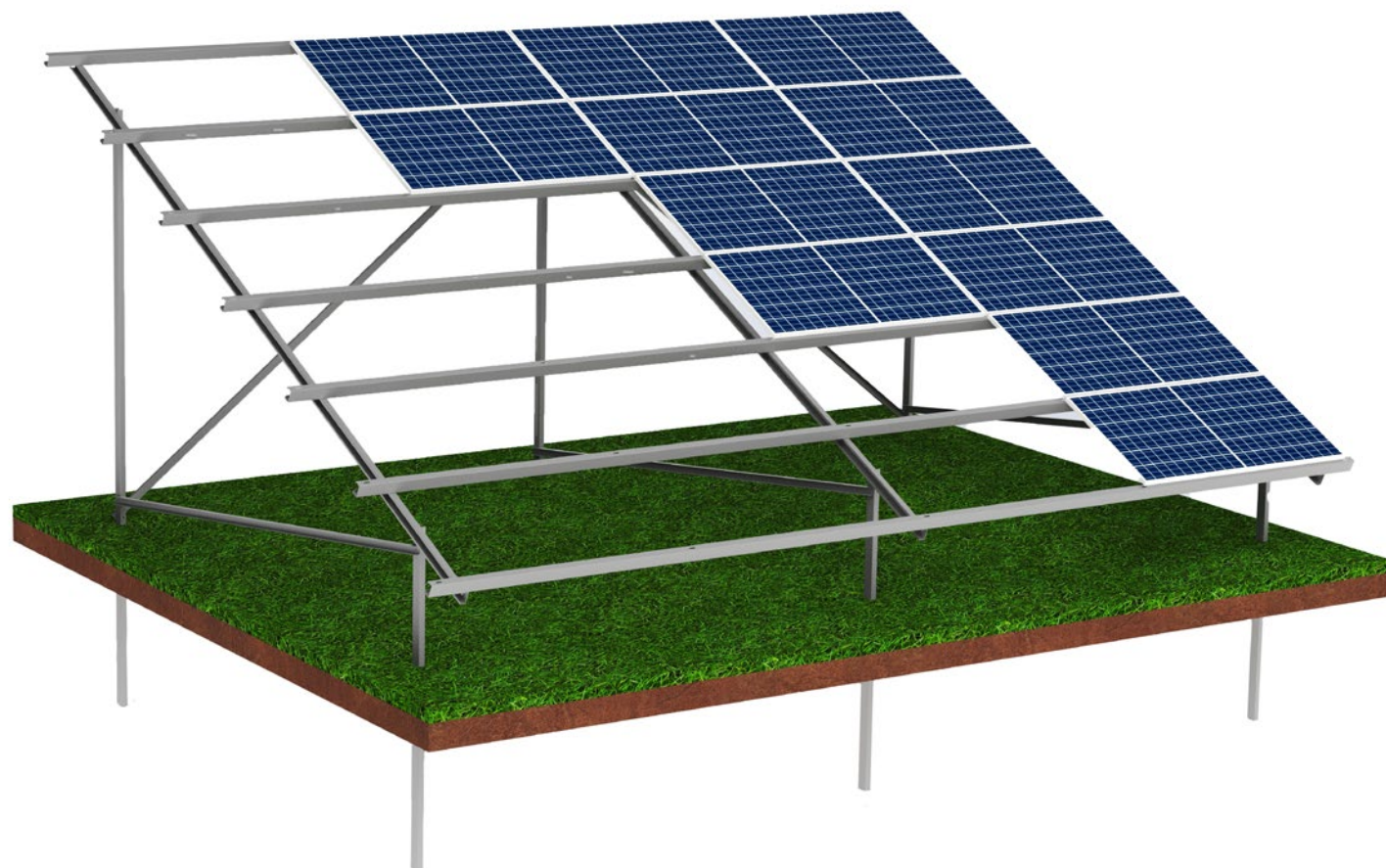
## UNIVERSAL STEEL STRUCTURE

number of rows  
6

orientation of modules  
horizontal

inclination angle  
25°/30°

available fixings  
driven steel pile



### Zones and Profiles

The structure is adapted to climatic loads, taking into account the specifics of the selected location, including wind zones, snow zones, and elevation above sea level.

### Properties

- Structure for every module dimension
- Anti-corrosion protection of steel elements with **Magnelis®**
- **25 year warranty** for **Magnelis®** coating
- **25 year guarantee** for elements in the ground

### Standards

PN-EN 1090-2, PN-EN 1990:2004,  
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PN-EN 1993-1-1:2006P,  
PN-EN 1993-1-3:2008P,  
PN-EN 1993-1-5:2008P  
PN-EN 1992-1-1:2008

# DN2V

## UNIVERSAL STEEL STRUCTURE DUO / EAST-WEST

number of rows  
2

orientation of modules  
vertical

inclination angle  
10°-25°

available fixings  
driven steel pile



### Zones and Profiles

The structure is adapted to climatic loads, taking into account the specifics of the selected location, including wind zones, snow zones, and elevation above sea level.

### Properties

- Structure for every module dimension
- Anti-corrosion protection of steel elements with **Magnelis®**
- **25 year warranty** for **Magnelis®** coating
- **25 year guarantee** for elements in the ground

### Standards

PN-EN 1090-2, PN-EN 1990:2004,  
PN-EN 1991-1-3, PN-EN 1991-1-4,  
PN-EN 1993-1-1:2006P,  
PN-EN 1993-1-3:2008P,  
PN-EN 1993-1-5:2008P  
PN-EN 1992-1-1:2008





number of rows  
4

orientation of modules  
horizontal

inclination angle  
10°–25°

available fixings  
driven steel pile



### Zones and Profiles

The structure is adapted to climatic loads, taking into account the specifics of the selected location, including wind zones, snow zones, and elevation above sea level.

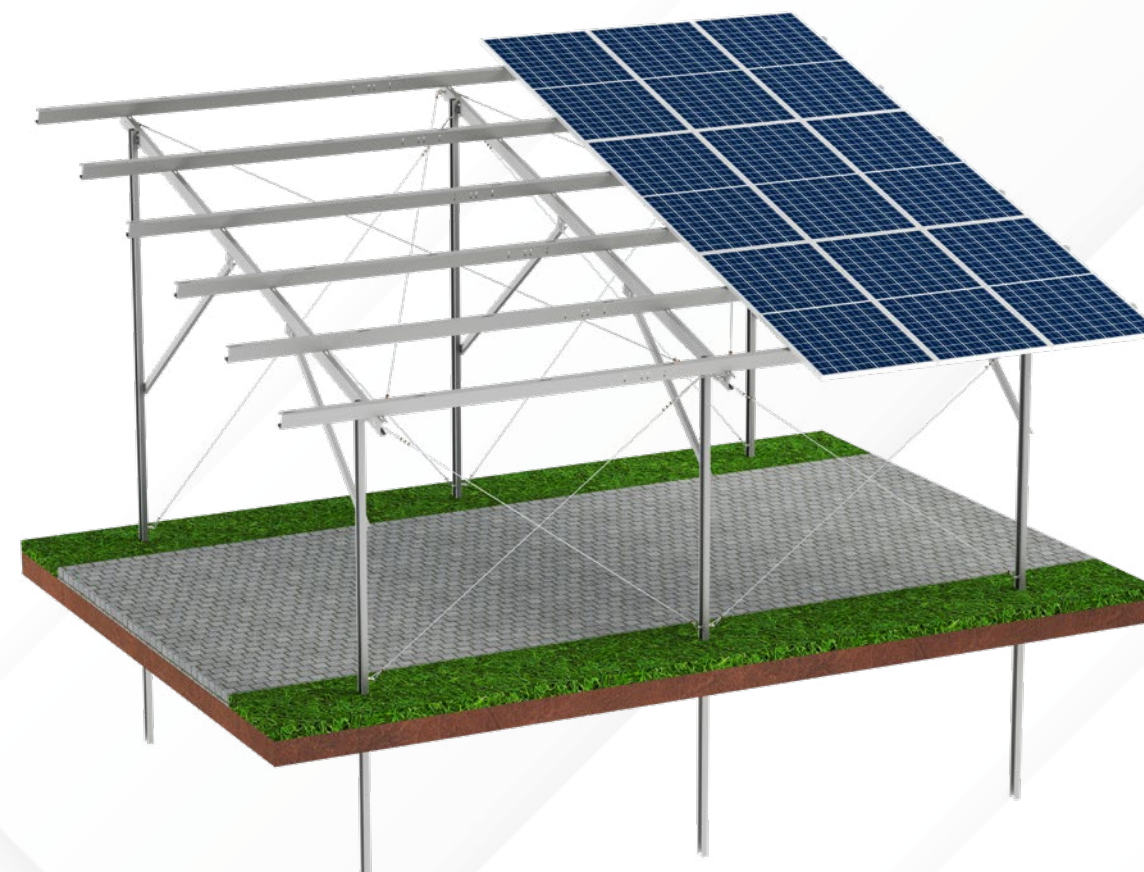
### Properties

- Structure for every module dimension
- Anti-corrosion protection of steel elements with **Magnelis®**
- 25 year warranty** for **Magnelis®** coating
- 25 year guarantee** for elements in the ground

### Standards

PN-EN 1090-2, PN-EN 1990:2004,  
PN-EN 1991-1-3, PN-EN 1991-1-4,  
PN-EN 1993-1-1:2006P,  
PN-EN 1993-1-3:2008P,  
PN-EN 1993-1-5:2008P  
PN-EN 1992-1-1:2008

- inclination angle 10°/15°/ 20°
- trapezoidal sheet metal (option)
- any number of stands
- individual order



### Photovoltaic sheds

- the ability to install most photovoltaic modules
- utilization of parking spaces for electricity generation
- fast and economical assembly time
- possibility of expansion to additional parking spaces
- customization of the shelter's structure and appearance according to individual client requirements
- option for driving in poles**

### Properties

- anti-corrosion galvanized protection or **Magnelis®**
- 2 year guarantee** for galvanized protection
- 25 year guarantee** for **Magnelis®** coating
- 25 year guarantee** for elements in the ground
- support spacing ~2,8m

We develop individual customer concepts.

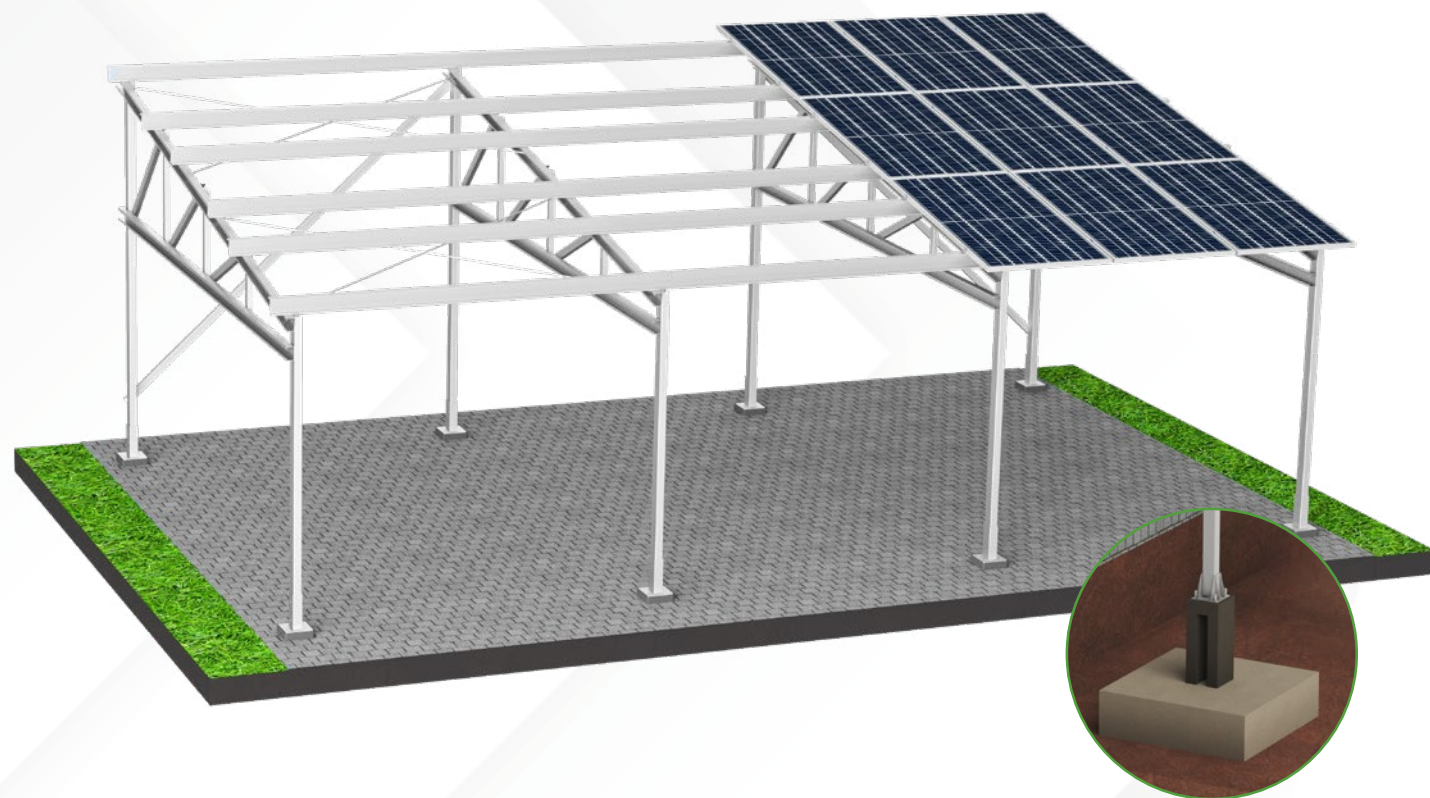
### Standards

EN 1090-2, EN 1990:2004,  
EN 1991-1-3, EN 1991-1-4,  
EN 1993-1-1:2006P,  
EN 1993-1-3:2008P,  
EN 1993-1-5:2008P,



# ECONOMICAL SHED

- inclination angle 10°/15°
- trapezoidal sheet metal (option)
- any number of stands
- individual order



## Photovoltaic sheds

- most photovoltaic modules can be installed
- parking spaces can be used for electricity generation
- the shed can be extended by additional parking stands
- the shed structure and appearance can be adjusted to individual customer requirements
- protection against weather conditions
- bumper for individual order [option]

## Properties

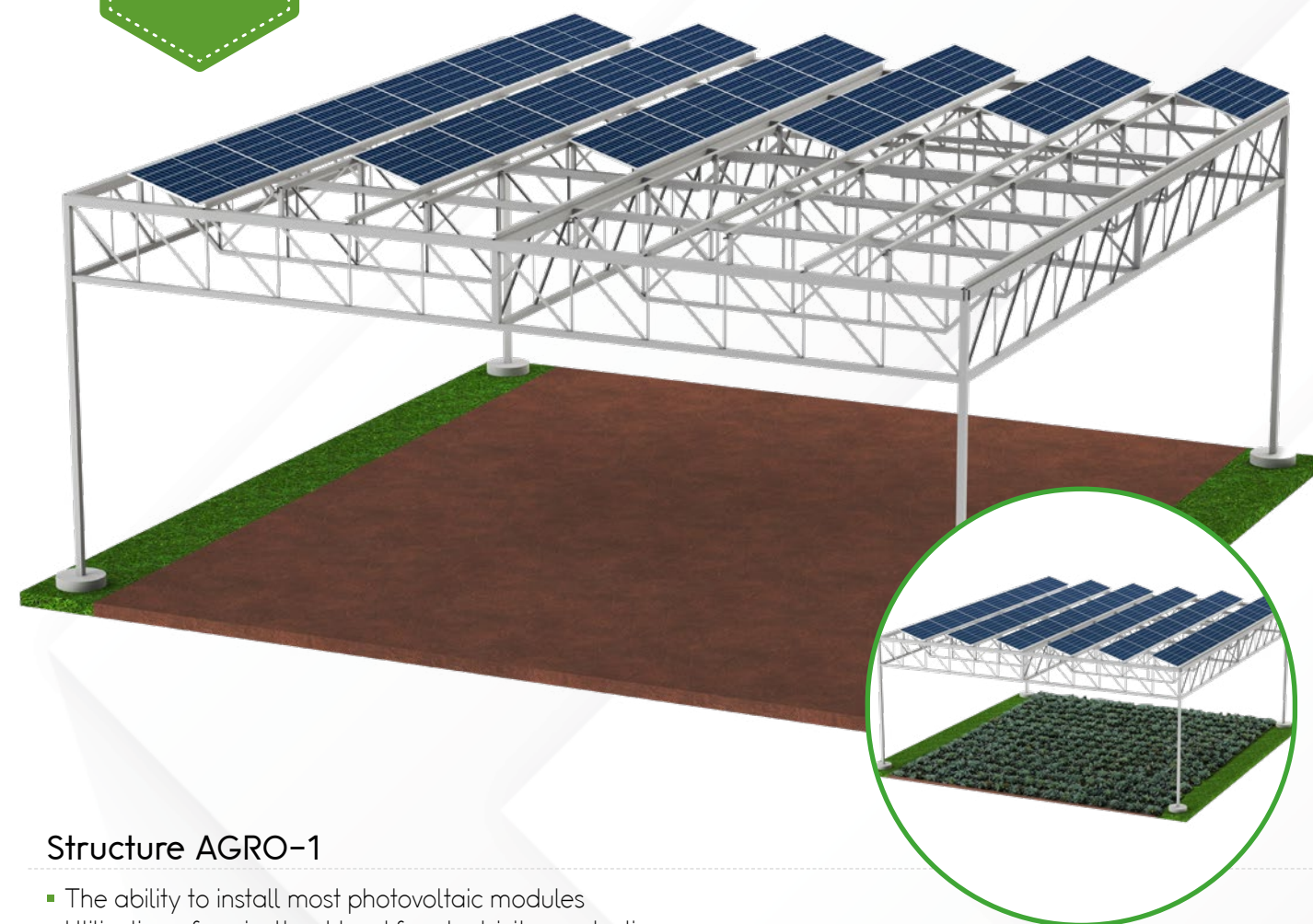
- anti-corrosion galvanized protection or **Magnelis®**
- **2 year guarantee** for galvanized protection
- **25 year guarantee** for **Magnelis®** coating
- **25 year guarantee** for elements in the ground
- support spacing up to 5,6 m

## Standards

EN 1090-2, EN 1990:2004,  
EN 1991-1-3, EN 1991-1-4,  
EN 1993-1-1:2006P,  
EN 1993-1-3:2008P,  
EN 1993-1-5:2008P,

We develop individual customer concepts.

# STRUCTURE AGRO - 1



## Structure AGRO-1

- The ability to install most photovoltaic modules
- Utilization of agricultural land for electricity production
- Customization of the shelter's structure and appearance according to individual client requirements
- Structure adapted to climatic loads for the specified location
- Possibility of expanding and modifying the structure
- A grid of poles and clearances allowing the free passage of agricultural machinery, such as combines

## Properties

- anti-corrosion galvanized protection or **Magnelis®**
- **2 year guarantee** for galvanized protection
- **25 year guarantee** for **Magnelis®** coating
- **25 year guarantee** for elements in the ground
- support spacing up to 5,6m

## Standards

PN-EN 1090-2, PN-EN 1990:2004,  
PN-EN 1991-1-3, PN-EN 1991-1-4,  
PN-EN 1993-1-1:2006P,  
PN-EN 1993-1-3:2008P,  
PN-EN 1993-1-5:2008P,

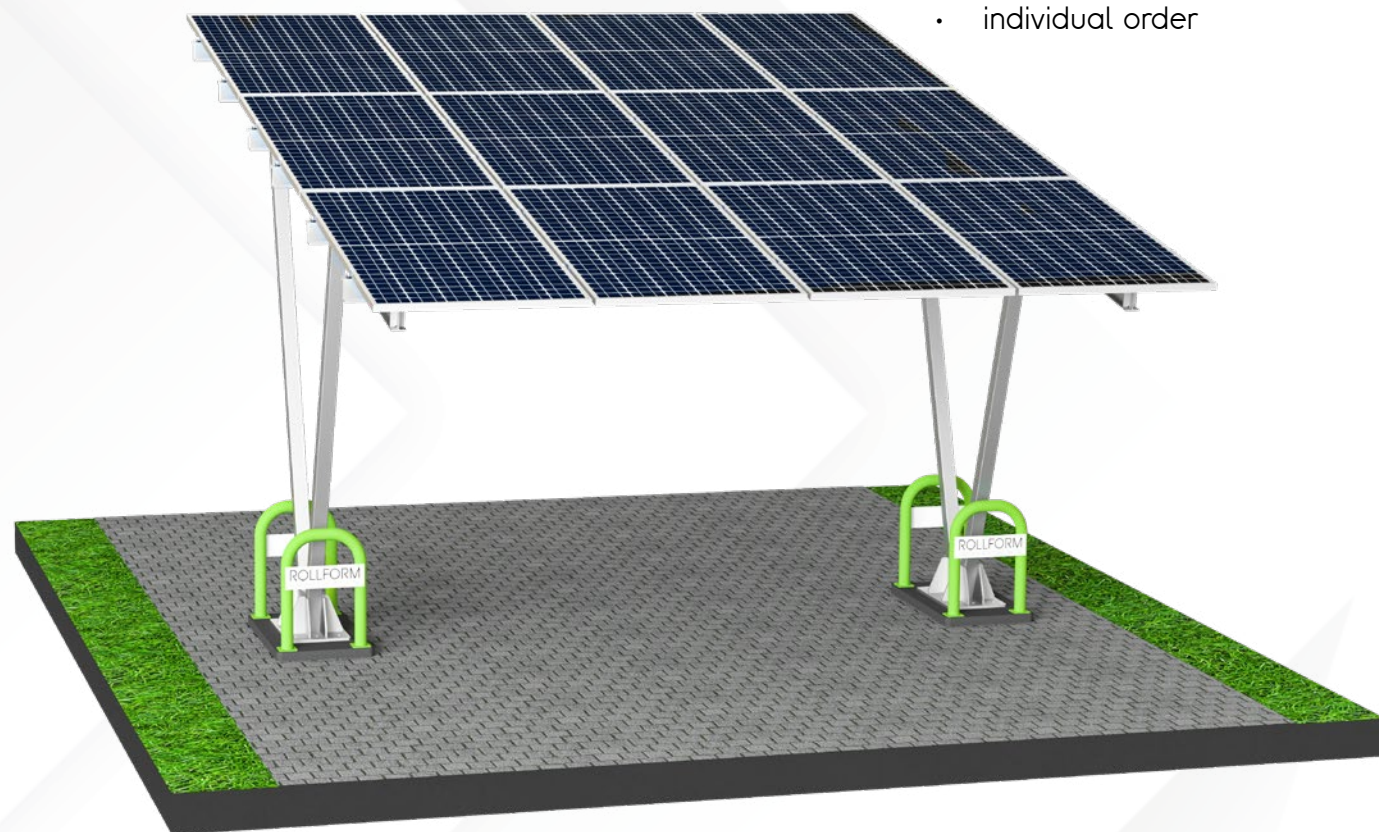
We develop individual customer concepts.





# CARPORT - V

- inclination angle 10°
- trapezoidal sheet metal (option)
- any number of stands
- individual order



## Photovoltaic sheds

- most photovoltaic modules can be installed
- parking spaces can be used for electricity generation
- the shed can be extended by additional parking stands
- the shed structure and appearance can be adjusted to individual customer requirements
- protection against weather conditions
- bumper for individual order [option]

## Properties

- anti-corrosion galvanized protection or **Magnelis®**
- **1-year guarantee** on elements with Z275 coating
- **2 year guarantee** for galvanized protection
- **25 year guarantee** for **Magnelis®** coating
- **25 year guarantee** for elements in the ground
- support spacing up to 5,6 m

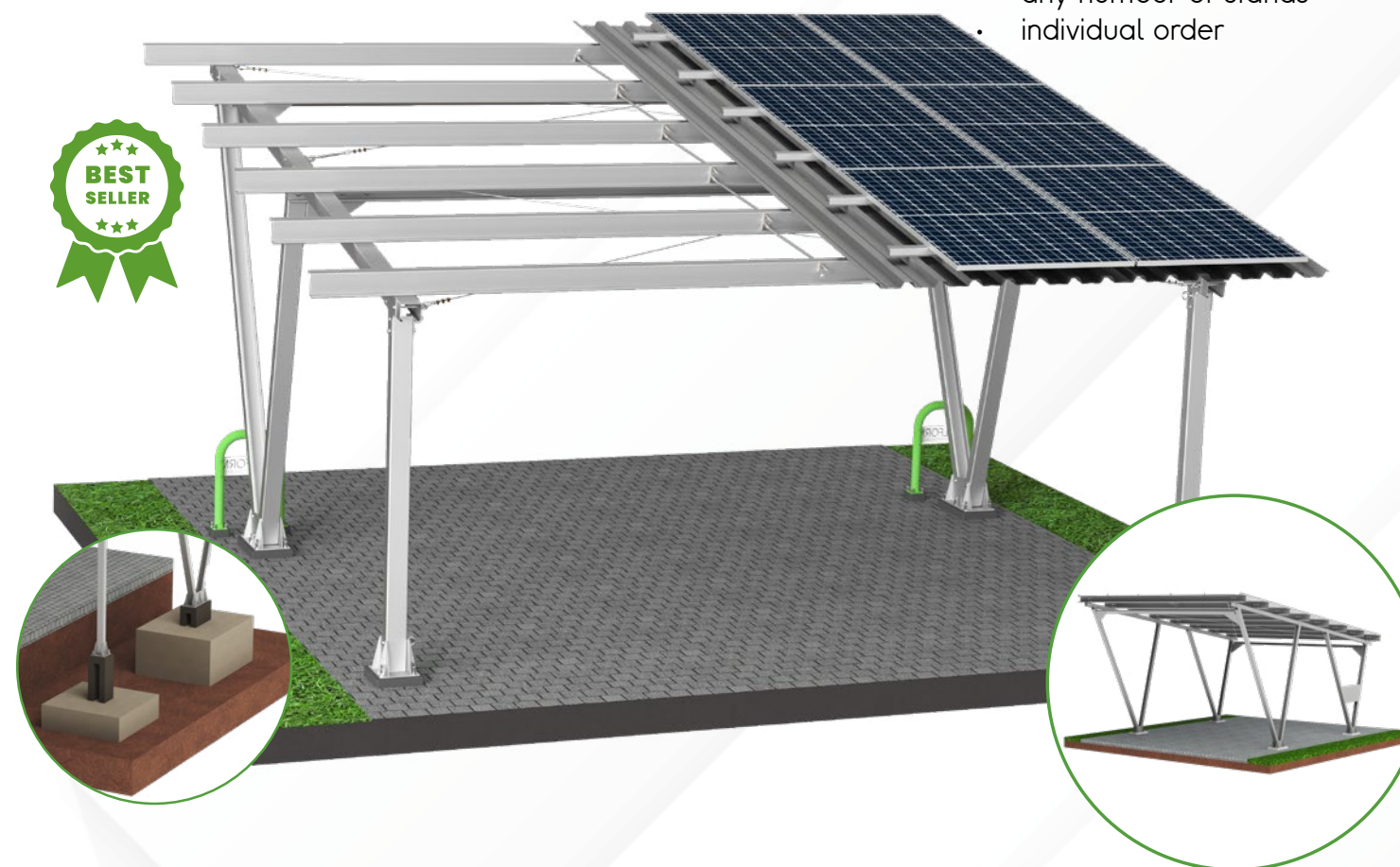
## Standards

EN 10162, EN 1990:2004,  
EN 1991-1-3, EN 1991-1-4,  
EN 1993-1-1:2006P,  
EN 1993-1-3:2008P,  
EN 1993-1-5:2008P,

We develop individual customer concepts.

# CARPORT - ECO

- inclination angle 10°/15°
- trapezoidal sheet metal (option)
- any number of stands
- individual order



## Photovoltaic sheds

- most photovoltaic modules can be installed
- parking spaces can be used for electricity generation
- the shed can be extended by additional parking stands
- the shed structure and appearance can be adjusted to individual customer requirements
- protection against weather conditions
- bumper for individual order [option]

## Properties

- anti-corrosion galvanized protection or **Magnelis®**
- **2 year guarantee** for galvanized protection
- **25 year guarantee** for **Magnelis®** coating
- **25 year guarantee** for elements in the ground
- support spacing up to 5,6 m

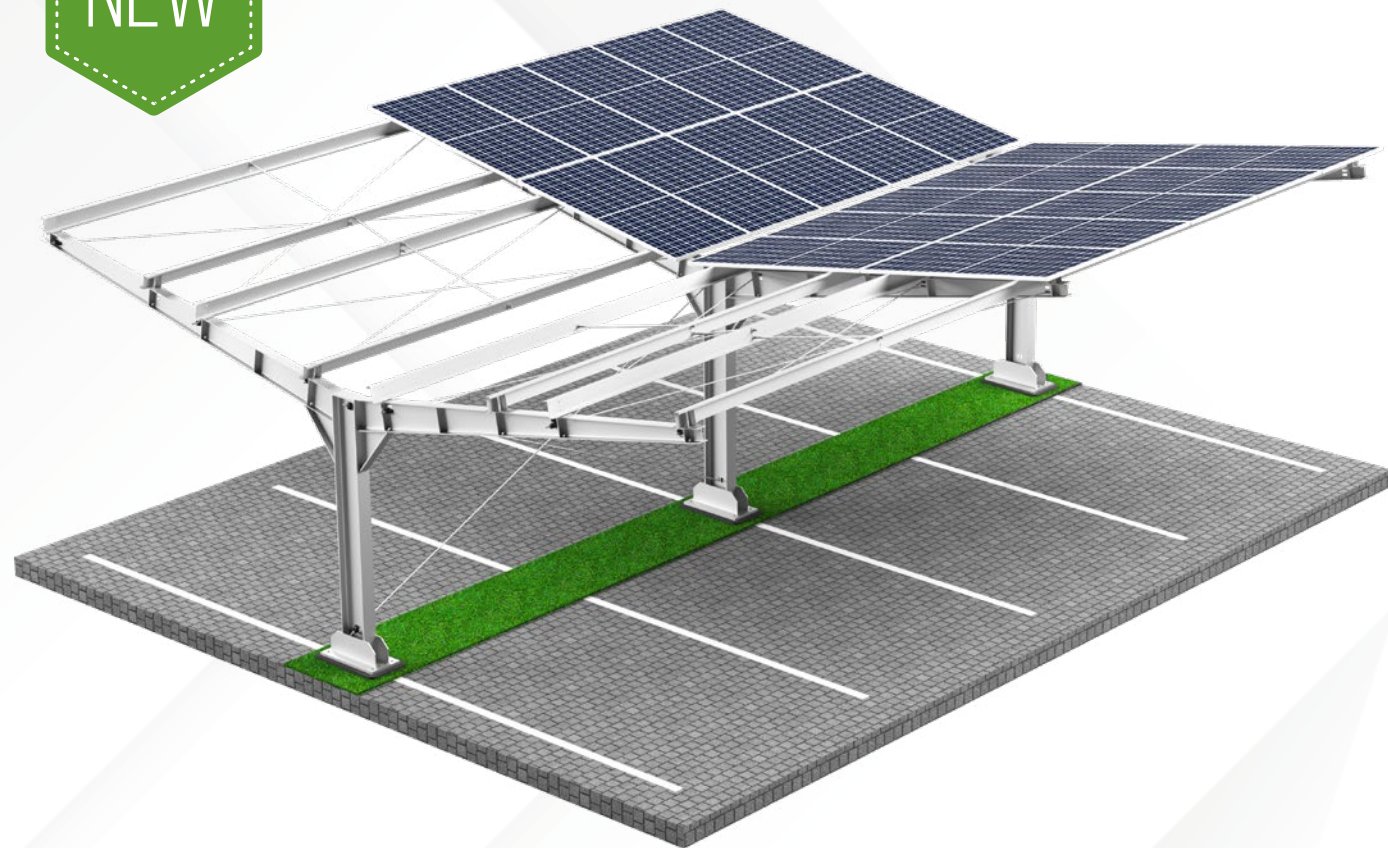
## Standards

EN 1090-2, EN 1990:2004,  
EN 1991-1-3, EN 1991-1-4,  
EN 1993-1-1:2006P,  
EN 1993-1-3:2008P,  
EN 1993-1-5:2008P,

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# INDUSTRIAL SHED - T



- inclination angle 5°/10°
- trapezoidal sheet metal (option)
- any number of stands
- individual order

## Photovoltaic sheds

- the ability to install most photovoltaic modules
- utilization of parking areas for electricity production
- possibility of expansion to additional parking spaces
- customization of the shelter's structure and appearance according to individual client requirements
- protection against weather conditions
- structure adapted to climatic loads for the specified location
- **highest parking comfort**
- custom bumper on request [option]

## Properties

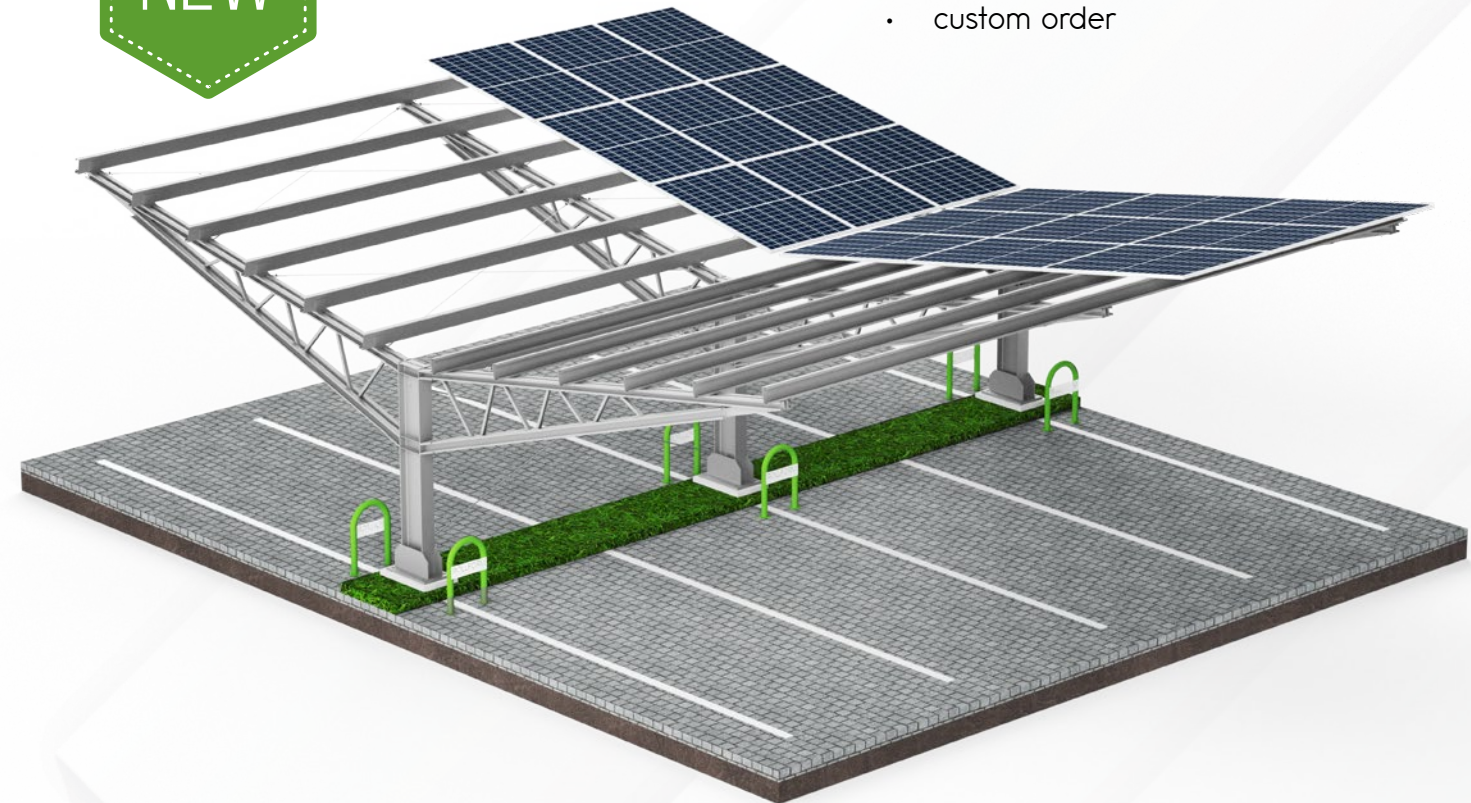
- anti-corrosion galvanized protection or **Magnelis®**
- **1-year guarantee** on elements with Z275 coating
- **2 year guarantee** for galvanized protection
- **25 year guarantee** for **Magnelis®** coating
- **25 year guarantee** for elements in the ground
- standard spacing of supports up to 5.6 m.

## Standards

EN 10162, EN 1990:2004,  
EN 1991-1-3, EN 1991-1-4,  
EN 1993-1-1:2006P,  
EN 1993-1-3:2008P,  
EN 1993-1-5:2008P,

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# INDUSTRIAL SHED - T ECO



- inclination angle 5°/10°
- option to cover with trapezoidal sheet metal or a sealing system (option)
- any number of parking spaces
- custom order

## Photovoltaic sheds

- designed with a focus on cost efficiency
- the ability to install most photovoltaic modules
- utilization of parking areas for electricity production
- Possibility of expansion to additional parking spaces
- customization of the shelter's structure and appearance according to individual client requirements
- protection against weather conditions
- structure adapted to climatic loads for the specified location
- **highest parking comfort**
- custom bumper on request [option]

## Properties

- anti-corrosion galvanized protection or **Magnelis®**
- **1-year guarantee** on elements with Z275 coating
- **2 year guarantee** for galvanized protection
- **25 year guarantee** for **Magnelis®** coating
- **25 year guarantee** for elements in the ground
- standard spacing of supports up to 5.6 m.

## Standards

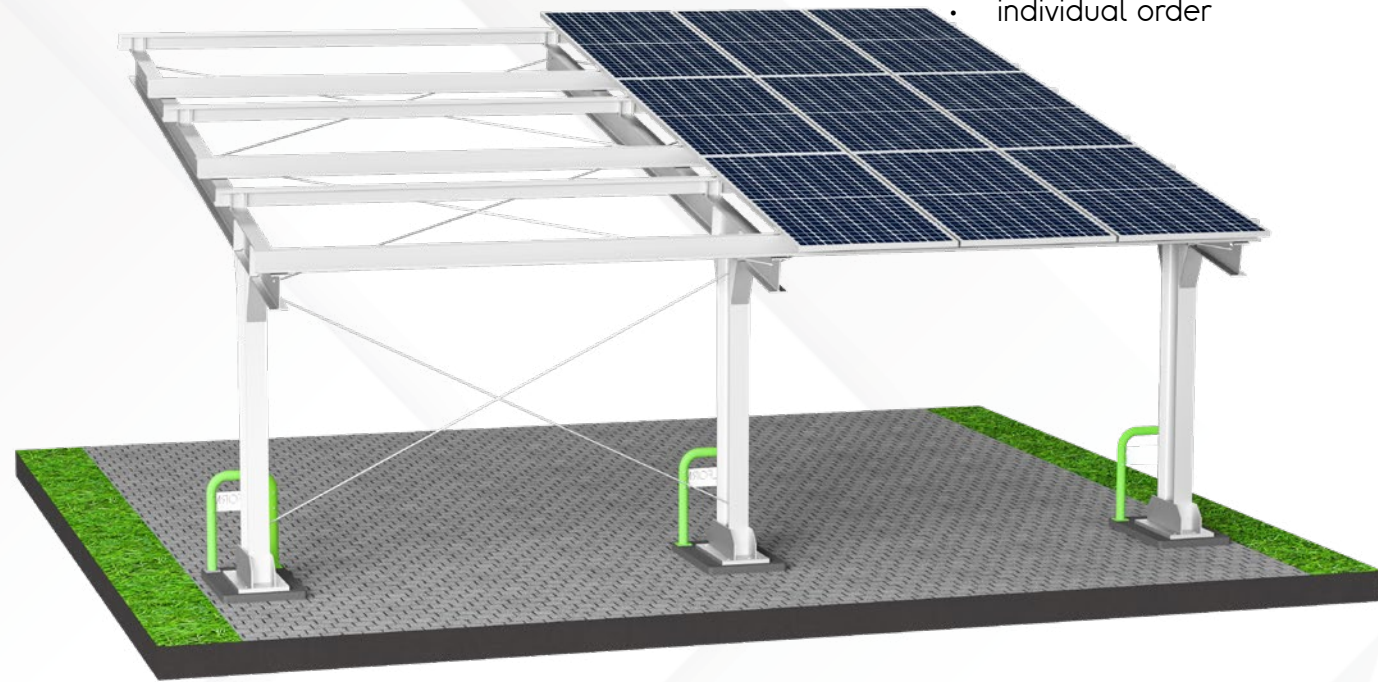
EN 10162, EN 1990:2004,  
EN 1991-1-3, EN 1991-1-4,  
EN 1993-1-1:2006P,  
EN 1993-1-3:2008P,  
EN 1993-1-5:2008P,

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# INDUSTRIAL SHED - L



- inclination angle 5°/10°
- trapezoidal sheet metal (option)
- any number of stands
- individual order

## Photovoltaic sheds

- the ability to install most photovoltaic modules
- utilization of parking areas for electricity production
- possibility of expansion to additional parking spaces
- customization of the shelter's structure and appearance according to individual client requirements
- protection against weather conditions
- structure adapted to climatic loads for the specified location
- **highest parking comfort**
- custom bumper on request [option]

## Properties

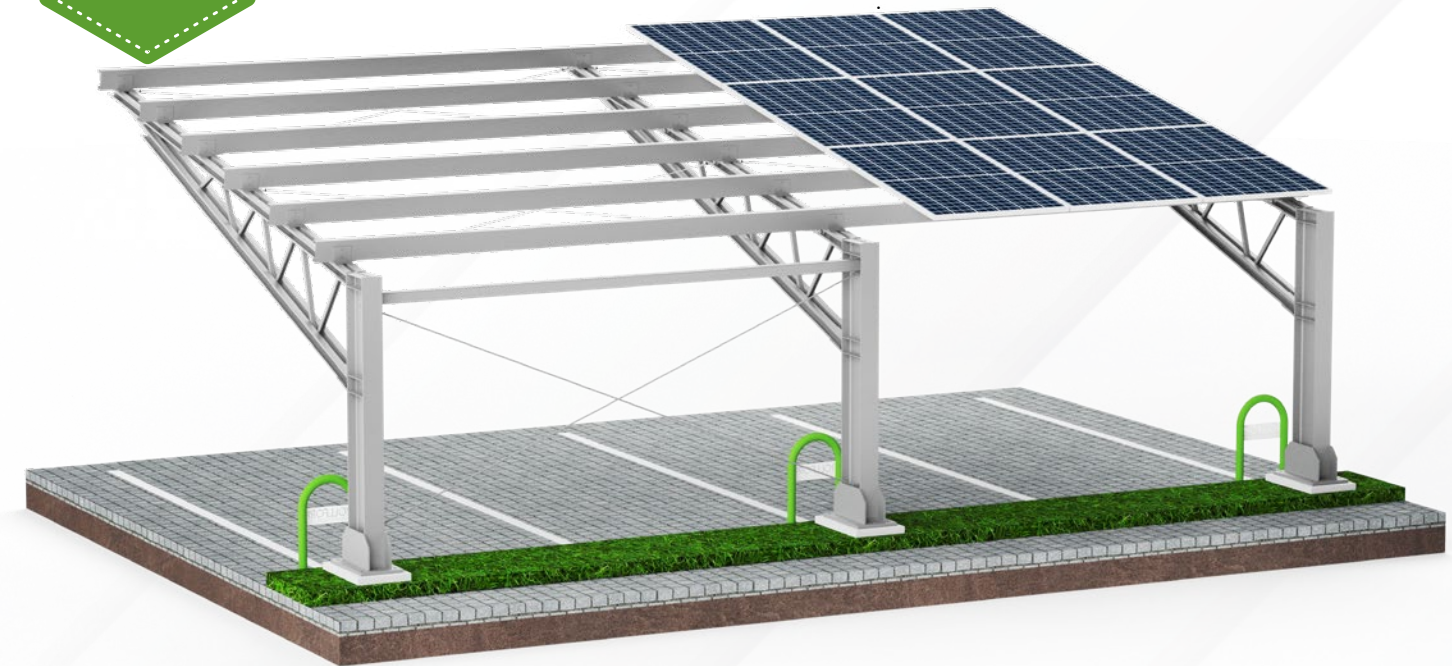
- anti-corrosion galvanized protection or **Magnelis®**
- **1-year guarantee** on elements with Z275 coating
- **2 year guarantee** for galvanized protection
- **25 year guarantee** for **Magnelis®** coating
- **25 year guarantee** for elements in the ground
- standard spacing of supports up to 5.6 m

## Standards

EN 10162, EN 1990:2004,  
EN 1991-1-3, EN 1991-1-4,  
EN 1993-1-1:2006P,  
EN 1993-1-3:2008P,  
EN 1993-1-5:2008P,

We develop individual customer concepts.

# INDUSTRIAL SHED - L ECO



- inclination angle 5°/10°
- option to cover with trapezoidal sheet metal or a sealing system (option)
- any number of parking spaces
- custom order

## Photovoltaic sheds

- the ability to install most photovoltaic modules
- utilization of parking areas for electricity production
- possibility of expansion to additional parking spaces
- customization of the shelter's structure and appearance according to individual client requirements
- protection against weather conditions
- structure adapted to climatic loads for the specified location
- **highest parking comfort**
- custom bumper on request [option]

## Properties

- anti-corrosion galvanized protection or **Magnelis®**
- **1-year guarantee** on elements with Z275 coating
- **2 year guarantee** for galvanized protection
- **25 year guarantee** for **Magnelis®** coating
- **25 year guarantee** for elements in the ground
- standard spacing of supports up to 5.6 m

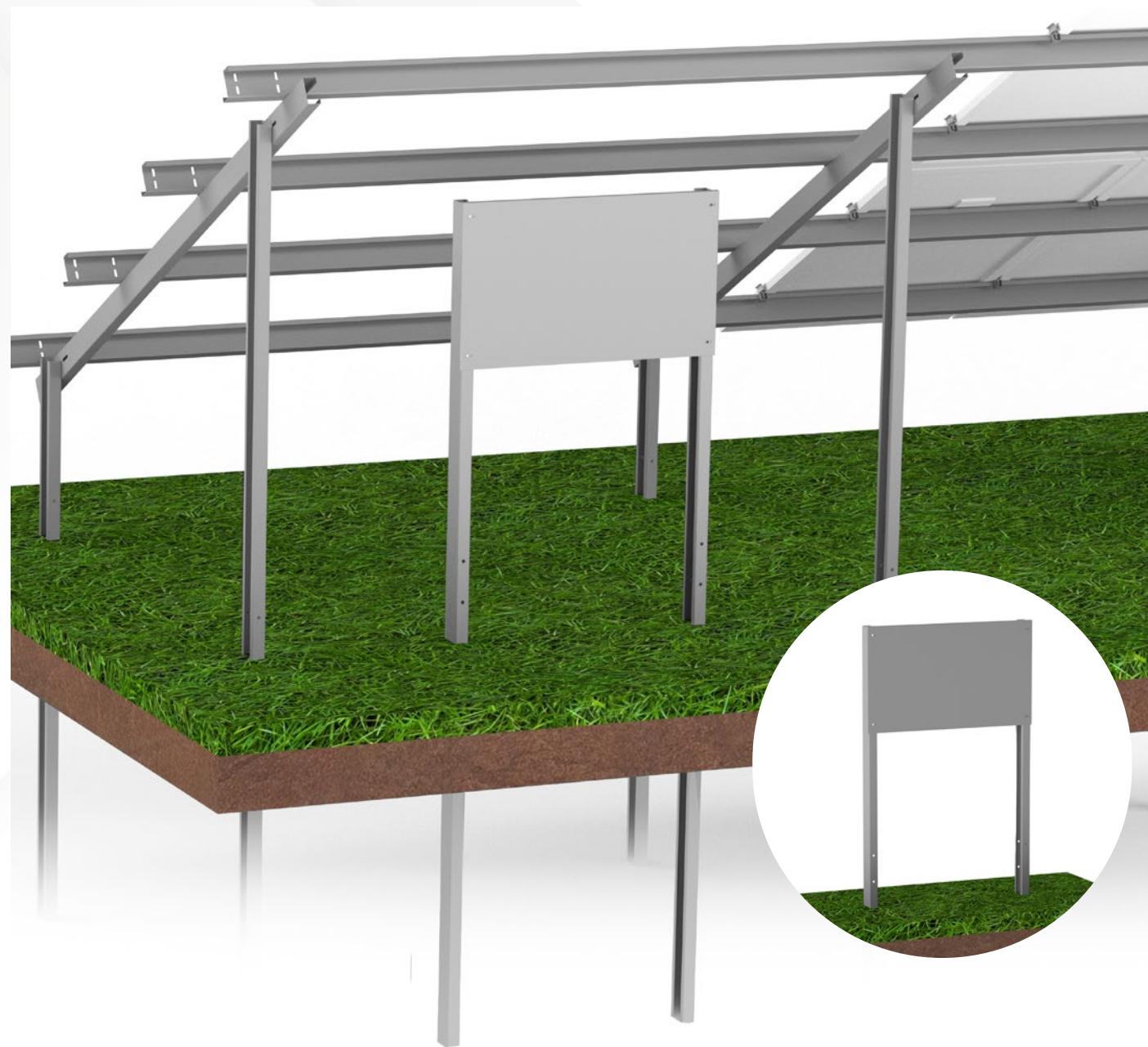
## Standards

EN 10162, EN 1990:2004,  
EN 1991-1-3, EN 1991-1-4,  
EN 1993-1-1:2006P,  
EN 1993-1-3:2008P,  
EN 1993-1-5:2008P,

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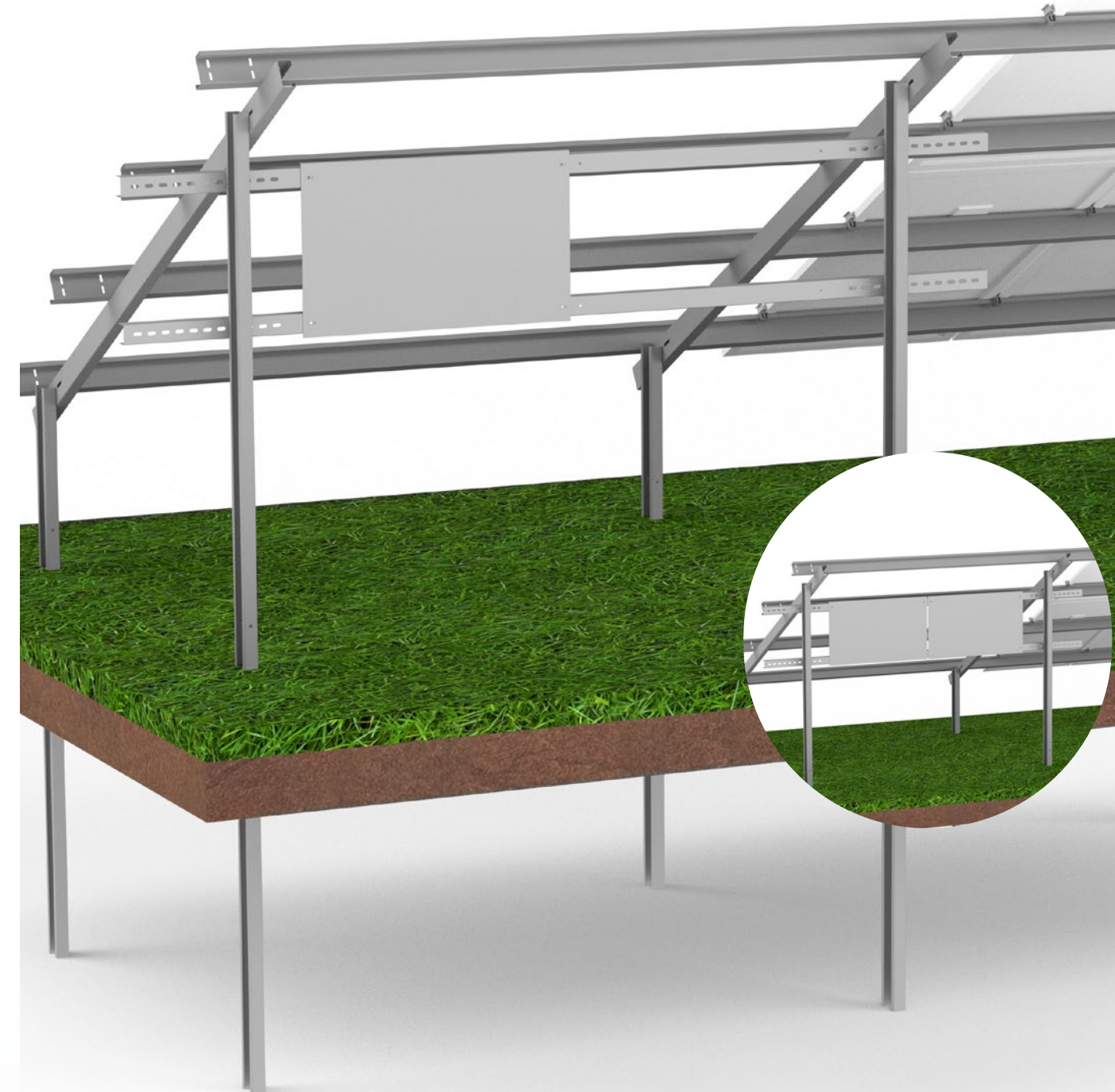


### Properties

- anti-corrosion galvanized protection or **Magnelis®**
- **25 year guarantee** for **Magnelis®** coating
- **25 year guarantee** for elements in the ground
- ability to mount independently from table structures.
- adapted for small/home investments

### Standards

PN-EN 1090-2,  
PN-EN 1990:2004,  
PN-EN 1991-1-1:2004



### Properties

- anti-corrosion galvanized protection or **Magnelis®**
- **25 year guarantee** for **Magnelis®** coating
- **25 year guarantee** for elements in the ground
- simple bracket integrated with the steel structure.
- option to expand the mounting area.

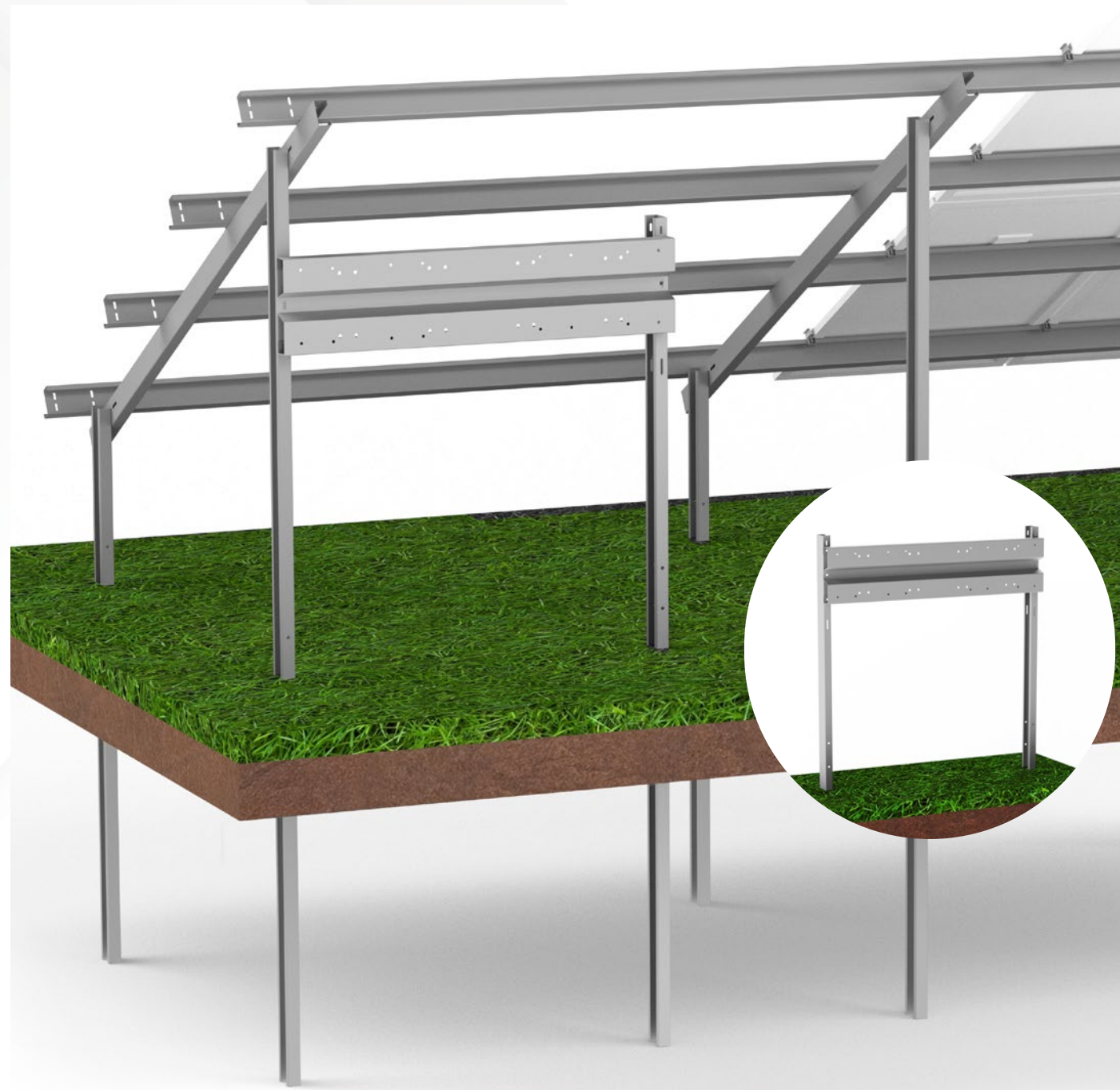
### Standards

PN-EN 1090-2,  
PN-EN 1990:2004,  
PN-EN 1991-1-1:2004



# MFU-F3

## UNIVERSAL INVERTER MOUNTING



### Properties

- anti-corrosion galvanized protection or **Magnelis®**
- **25 year guarantee** for **Magnelis®** coating
- **25 year guarantee** for elements in the ground
- adapted for large-scale investments
- ability to mount independently from table structures (additional pole)
- original openings for popular types of inverters

### Normy

PN-EN 1090-2,  
PN-EN 1990:2004,  
PN-EN 1991-1-1:2004



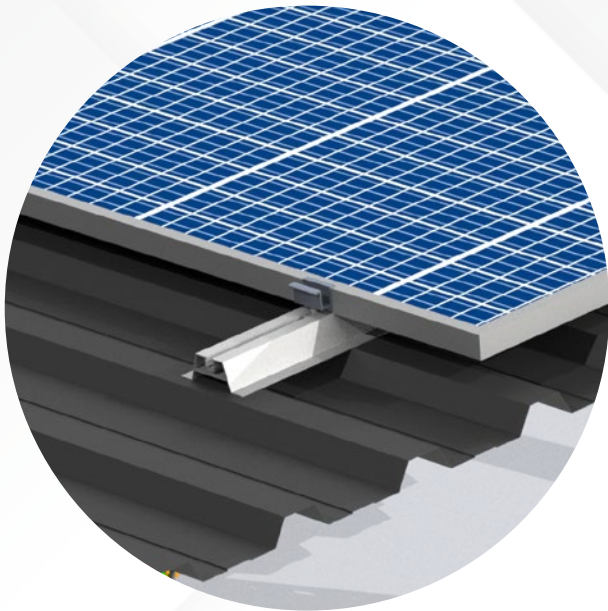
ESTONIA 10MW - N4H-STR



PIOTRKÓW KUJAWSKI 1MW - N4H-STR



# SEALING SYSTEMS



## Trapezoidal metal sheet

Roof covering made of steel sheet with a thickness of 0.50/1.25mm. The use of such a covering guarantees complete tightness regardless of the passing years. Corrugated sheet metal can easily withstand adverse temperatures and weather conditions. PV modules are mounted on trapezoidal bridges, which provide easy and secure installation, as well as ensuring air circulation between the sheet metal and the module. An important advantage of corrugated sheet metal is its positive impact on the structure, as the sheet metal stiffens the roof and reinforces the purlins.

## Sealing profile system

An innovative solution that can replace traditional sealing. It consists mainly of aluminum rails, on which modules are mounted. A gasket is used between the modules to improve tightness. This is an economical, aesthetic, and practical solution. The biggest advantage of the ECOMAR system is the simultaneous mounting of modules with roof sealing.



# PILE DRIVING

Depending on needs, we offer a service of renting a hand pile driver to drive the poles on one's own, or our qualified staff service of pile driving/pile ramming with the use of a tracked pile driver.



## Tracked pile driver

Designed for driving a large number of piles. Precise, accurate and indispensable on every photovoltaic farm.



## Hand pile driver

Ideal for driving lightweight structures. An additional range is ensured by hose valves. It can be used with almost any hydraulic outlet.



**1MW - N2V**





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**Michal Swiatek**

SALES AND MARKETING DIRECTOR

+48 503 176 861

[sales@rollform.pl](mailto:sales@rollform.pl)



**Peteris Zimants**

BUSINESS DEVELOPER IN BALTIC STATES

+371 20 281 945

[p.zimants@rollform.pl](mailto:p.zimants@rollform.pl)

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Rollform Polska sp. z o.o

Dubois 114/116 lok. 2.01

93-465 Łódź, Poland

NIP: 8311638200

KRS: 0000762681

Regon: 382054020

[www.rollform.pl](http://www.rollform.pl)

+48 (42) 211 35 87

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