



**ASTURMADI RENEERGY designs, calculates and manufactures its own fixed structure. Particular conditions of each project are taken into account always seeking for the ease and speed of assembly, the adaptability of the system to irregular local topography and client requirements. New solutions and innovative products are developed, fulfilling the technical requirements imposed by currently regulations from each country.**

### EXPERIENCE



- ✓ ASTURMADI RENEERGY technical team has more than 10 years of experience in photovoltaic sector and more than 1,2 GW of projects executed.
- ✓ Participation in projects in more than 20 countries.

### DESIGN



- ✓ Design and structure calculated to achieve the requirements imposed by the clients and current regulation from each country.
- ✓ Search for the optimal foundation solutions for each project.

### MANUFACTURING



- ✓ Own manufacturing cold formed profiles according to UNE-EN 10162. Different steel qualities are selected to cover project needs.
- ✓ Coating treatments are applied to guarantee the structure durability (Hot Dip Galvanized, Posmac, Magnelis, Magicinc or similar).

### ASSEMBLY



- ✓ The structure can be adapted to different possible foundations (Driven Piles, Concrete Foundation, etc).
- ✓ Easy assembly process. All joints are bolted, neither cuts nor welds are needed in construction.

### QUALITY



- ✓ Metal structure manufactured according to UNE-EN 1090.
- ✓ Hot Dip Galvanized structure and / or ZM coating treatment (Zinc-Magnesium) according to UNE-EN ISO 1461 and UNE-EN 10346 respectively.

### WARRANTY



- ✓ 10 years structure warranty (expandable).
- ✓ Coating warranty is dependant from the environment where the structure is installed according to UNE-EN ISO 14713 (\*).

#### SPAIN

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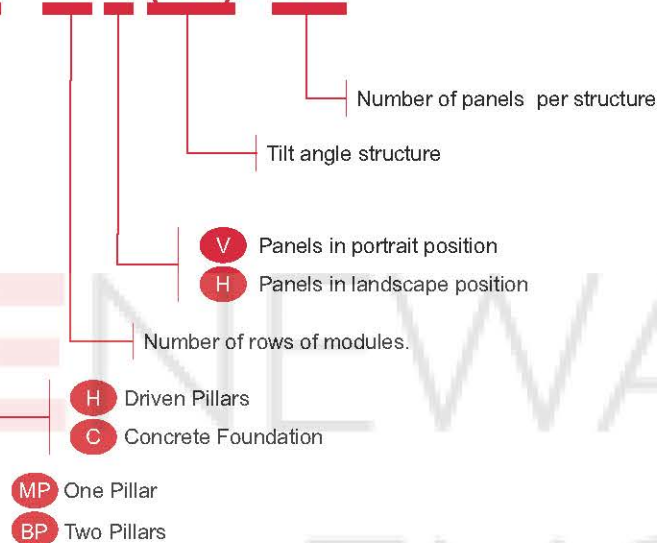
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### TYPES OF STRUCTURES

#### MP H - 2P V (25°) / 40P



#### ONE PILLAR STRUCTURE

##### MPH-2PV (30°) / 20P



One driven pillar, with 2 rows of panels in portrait position at 30° tilt, supporting 20 solar modules in total.

##### MPH-3PH (20°) / 18P



One driven pillar, with 3 rows of panels in landscape position at 20° tilt, supporting 18 solar modules in total.

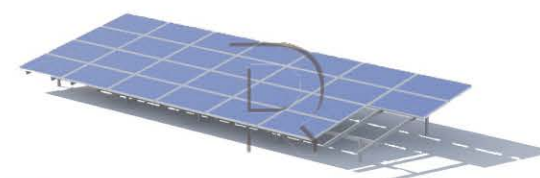
#### TWO PILLAR STRUCTURE

##### BPH-3PV (15°) / 60P



Two driven pillars, with 3 rows of panels in portrait position at 15° tilt, supporting 60 solar modules in total.

##### BPH-4PH (10°) / 28P



Two driven pillars, with 3 rows of panels in landscape position at 10° tilt, supporting 28 solar modules in total.

#### GENERAL CHARACTERISTICS

Fixed Structure	One Pillar / Two Pillars
Panels	72 cells / 60 cells
Maximum Slope	Tailored to specific client conditions up
Material	Cold formed and Hot rolled steel with a yield strength greater or equal to 275 N/mm <sup>2</sup>
Finishing Treat (*)	Hot Dip Galvanized according to UNE-EN ISO 1461 or ZM (Zinc-Magnesium) according to UNE-EN 10346
Foundation	Driven Pillars, Screw, Concrete Foundation (Micropiles and Superficial Footing)
Maximum Wind	Tailored to local Codes or specific client conditions up.

(*) Standard Coating Warranty		
	Environment	Warranty
C2	Exposed rural inland	50 years
C3	Urban inland or mild coastal	25 years
C4	Industrial inland or urban coastal	10 years
C5	Industrial with high humidity or high salinity coastal	5 years

Service life is guaranteed maintaining environmental conditions without changes.

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