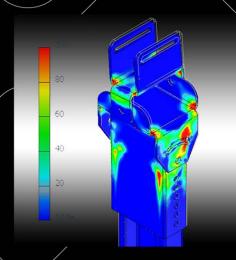


Without Concrete

The driving system of the metallic piles reduces the high costs and terms when using concrete foundations. In addition the environmental impact caused by the buried concrete is eliminated.

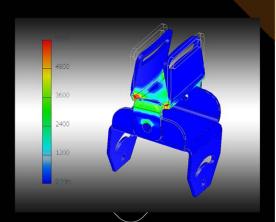
Biposted System

The main characteristic that provides this system is the stiffness of the set, obtaining a perfect stability against any unforeseen, atmospheric agents, etc.



Structural Security

The structural security is based on a geotechnical study for every project. The structure is checked by load and pulling tests applied to a percentage of piles. The set can resist wind loads higher than 150 km/h.

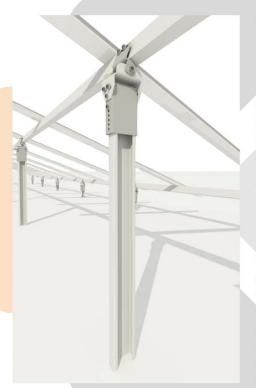


HIGH PILE STRUCTURE FIXED INSTALLATIONS ON THE GROUND



The **Enersol's High Pile Structure** composed by 2 metallic fixed piles, presents some advantages due to the rapid and simple assembly system and the versatility. It can be adapted to the deficiencies in the foundation level being able to solve ground mistakes of 20cm height every 3ml.

All the elements of this structure are made of with the highest qualities being able to chose all kind of materials according to the requirements of the project



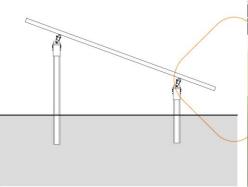


The different pieces of this structure that lies on these piles are assembled by means of adjustable screws. For this reason this structure offers some advantages to the client because he economizes on the installation; and for the installer as well because his labor will be easier, avoiding overstrains, possible unforeseen using welding and cutting tools...

Enersol offers 10 years Warranty of Product

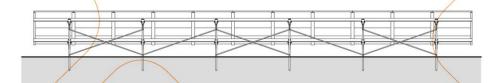


Detail of the High Pile Structure





The measures of these piles will depend on the load they must support and especially of the kind of ground we are working on.



The placement of the modules on the metallic shapes and the electrical connection are carried out in a fast, simple and economic way, because the aluminum frames are perfectly designed to be able to hold the modules by means of a rail system where we can slide the modules.



TECHNICAL CHARACTERISTICS			
Dimensions (mm)	1580x880	1310x990	1540x990
Configuration V	2	2	
Configuration H	4	.4	
Kind of pile	Metallic shape C120, C140, C160, Screw (According to G.S		
Lenght of the pile	According to project		
Fixation	>1200 mm (According to G.S.)		
Allowable unvenness	12° (27%)		
Tilt North-South	Cliebt's choice max. 40°		

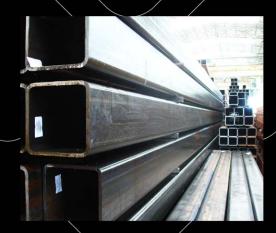
G.S. Geotechnical Study





Material

High qualify material, demanding to every component some performances according to its function. For this reason the piles are made of hot-dip galvanized steel, the frames are made of extruded aluminum and the screws are made of stainless steel.



Supplies and services

- Geotechnical Study*
- Calculation of the Installation *
- Metallic piles driving*
- Pulling tests*
- Supply on the worksite. *
- Assembly of the structure*
- Placement of the panels.*
- Cabling*
- Connection

*Items to be done by Enersol

For further information please contact Enersol Nuevas Energías s.l. by calling +34 96 556 19 91 or via

www.enersolsl.com enersol@enersolsl.com



TECHNIQUE SOLUTION ENERSOL STRUCTURE HIGH PILE





The brand new Enersol Structure HIGH PILE has some technique advantages concerning the design to obtain a structure more versatile, resistant and easy assembly.

Due to the tolerances coming from the manual assembly process and also from the unevenness of the ground, the Enersol Structure HIGH PILE can be adjusted in three Cartesian axes (X,Y,Z) to solve this defects.

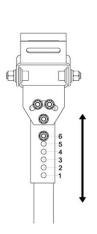
These innovations present on the Enersol Structure HIGH PILE make this structure the best option to support the solar panels in a ground photovoltaic power plant on the ground due to the easy assembly process and the possibility of adjustment.

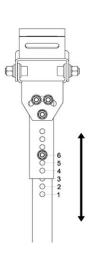


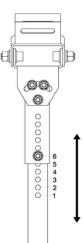
TECHNIQUE SOLUTION ENERSOL STRUCTURE HIGH PILE

1.- VERTICAL ADJUSTMENT (AXE Z)

To correct the unevenness of the ground the Enersol Structure HIGH PILE has the advantage to be adjust vertically (axe Z). For this the piles have some consecutive holes which allow the regulation according with the needs. This regulation can be up to 10 cm. With this we can save the unevenness of the ground up to 5% tilt.

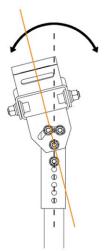


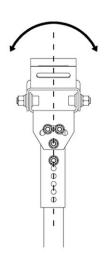


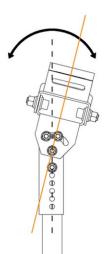


2.- ANGULAR ADJUSTMENT (AXE X)

In the other hand the Enersol Structure HIGH PILE can also be adjusted angularly in the X axe. With this we adapt the table to the ground tilt. For this the "head of the pile" has some angular long slots which allow to adjust the structure 14° to the right and to the left.







3.- HORIZONTAL ADJUSTMENT (AXE Y)

It is also possible to adjust the structure in the axe Y. It is easy to adjust the distance between piles obtaining so we will always have the same distances along the table. For this reason the "head of the pile" has a long slot where the structure can slide. With it we can get a adjustment tolerance of 12,4 cm in both directions.

