



GANTRY STRUCTURE

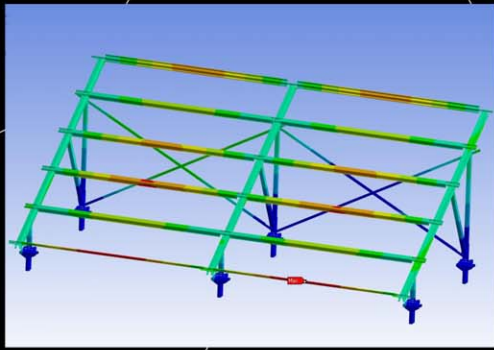
FIXED INSTALLATIONS ON THE GROUND

Without Pouring Concrete

The driving system of the metallic posts reduces the high costs and period that are generated by concrete foundations. In addition the environmental impact caused by the buried concrete is eliminated

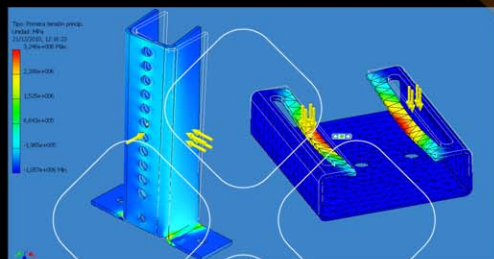
Bipost System

The principal characteristic that provides this system to the set is the inflexibility of the bisupported arcade obtaining a perfect stability opposite to any unforeseen, atmospheric agents, etc.



Structural Security

Robust and compact. Based on a geotechnical study of every project. Verified by load and pressure tests applied to a percentage of piles. The set is capable of supporting winds higher than 150 km/h.



The Enersol's Gantry structure composed by 2 metallic fixed piles, presents advantages in its rapid and simple assembly and in its versatility. It adapts to the deficiencies in the level of foundation being able to absorb errors of 20cm height in every 3ml.

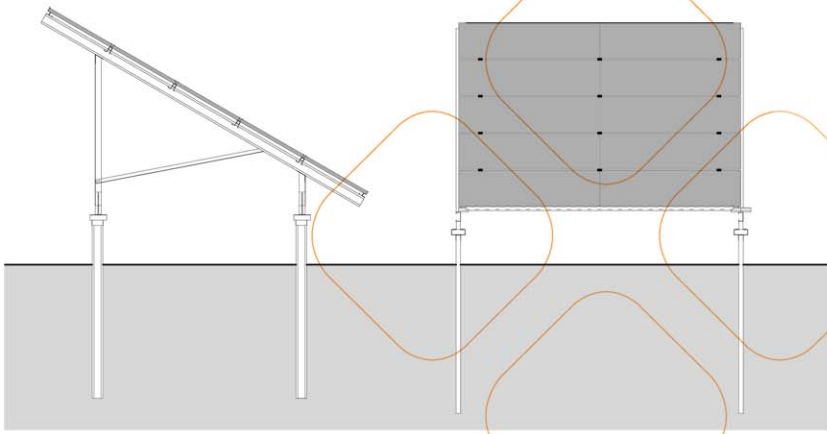
All its elements are constituted by galvanized steel and stainless steel, qualities that combined with its hardness and simplicity, provide it with the highest quality.



The different pieces that form part of the structure that lies on these piles are assembled by means of adjustable screws, which offers advantages for the client because he economizes the installation; and for the installer because his labor is facilitated, avoiding over-trains, possible unforeseen for weld tools, cut, etc.

Enersol offers 10 years of Product Warranty

Detail of the Bipost Structure



The dimensioning of the piles will depend on the load that must support and especially of the kind of terrain at which we are working on.



The fixation of the panels to the shapes and the laying of the electrical cabling are made in a fast, simple and economic way, so the aluminum shapes come with holes for the fixation of the screws and it is possible to make it in any point of the shape.



TECHNICAL CHARACTERISTICS

Dimensions (mm)	1580x880	1310x990	1540x990
Configuration V	2		2
Configuration H	4		4
Kind of pile	Metallic Shape C120, C140, C160 (According to G.S.)		
Length of the pile	3.000 mm		
Fixation	1.300-1.600 mm		
Allowable unevenness	15 %		
Hit Intensity	300 Nm/Hit		

G.S. Geotechnical Study



enersol
nuevas energías

Material

High quality material, demanding to every element some performances according to its function, so the piles are made of hot-dip galvanized steel, the shapes are made of extruded aluminum and the joints and the screws are made of stainless steel.



Supply and Performances

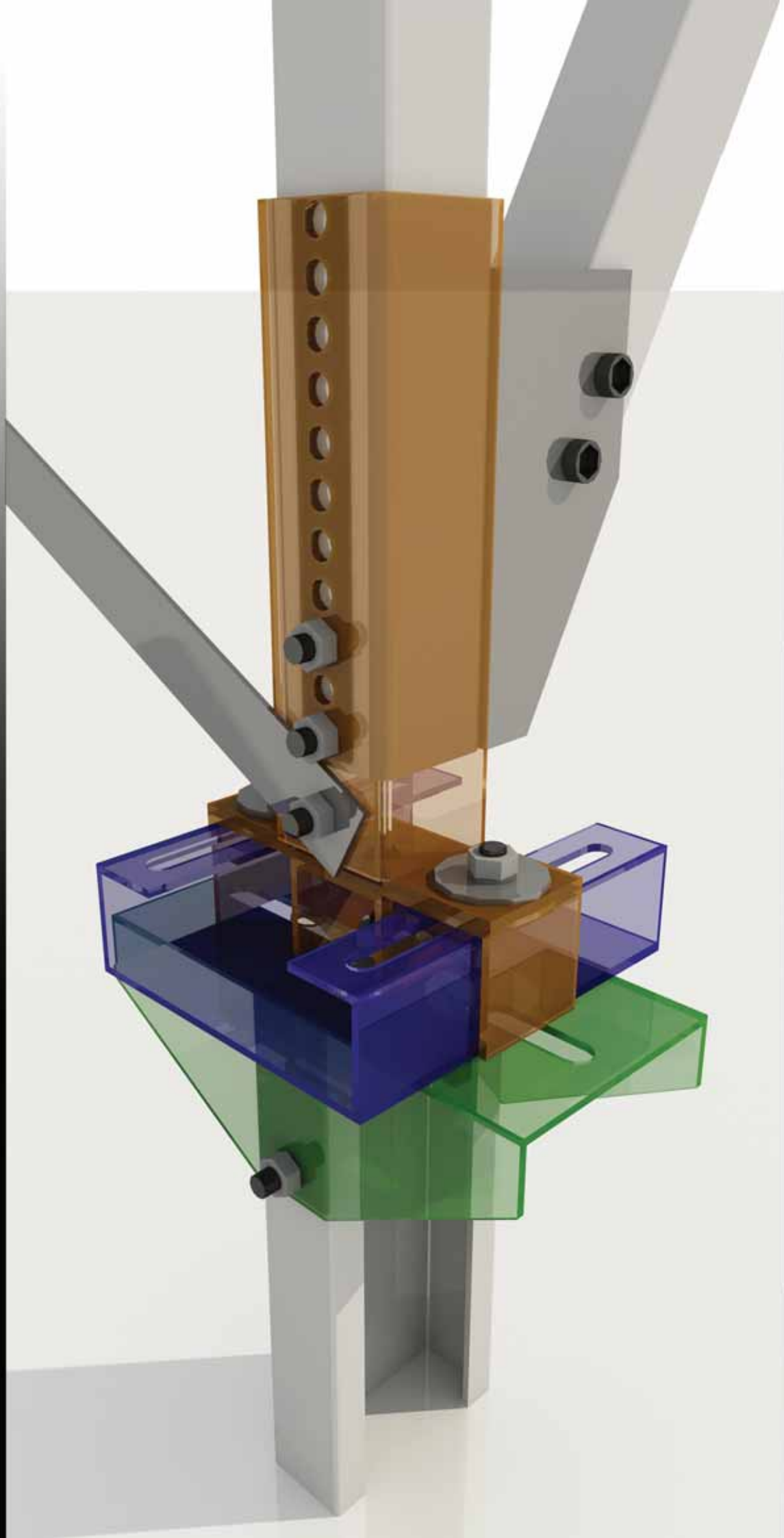
- Geotechnical study
- Calculation of the Installation *
- Metallic piles driving
- Load tests
- Supply in the place
- Assembly of the structure
- Assembly of the panels.
- Electrical cabling.
- Connection

* Items to be made by Enersol.

For more information contact Enersol Nuevas Energías s.l. calling 96 556 19 91 or via

www.enersol.com
enersol@enersol.com

TECHNICAL SOLUTIONS ENERSOL BIPOSTE II



www.enersolsl.com

enersol@enersolsl.com





INTRODUCTION

The report tries to show the technical solutions that the new structure Enersol Biposte-II presents, all of them with the aim to obtain a structure much more versatile, resistant and easy to assemble.

Due to the tolerances that come from the manual assembly of the structure, the new structure Enersol Biposte-II can be regulated in three Cartesian axes (X, Y, Z) to save these mentioned defects.

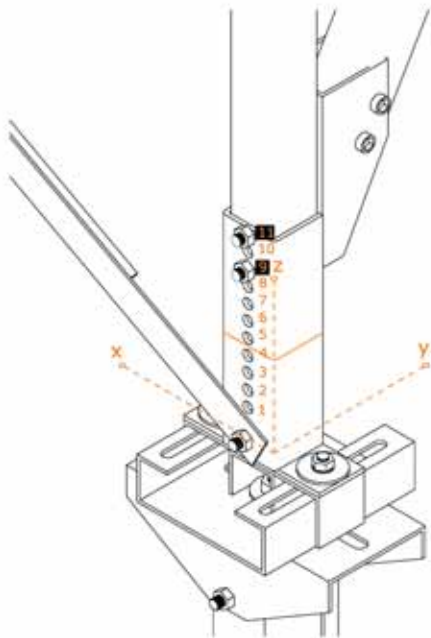
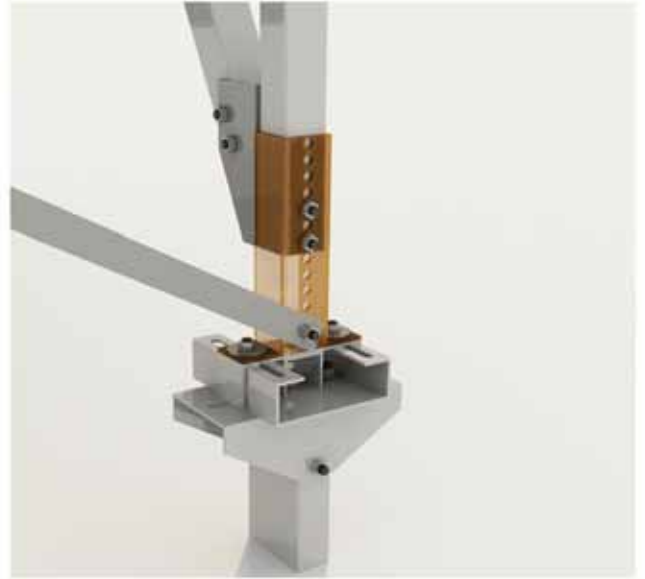
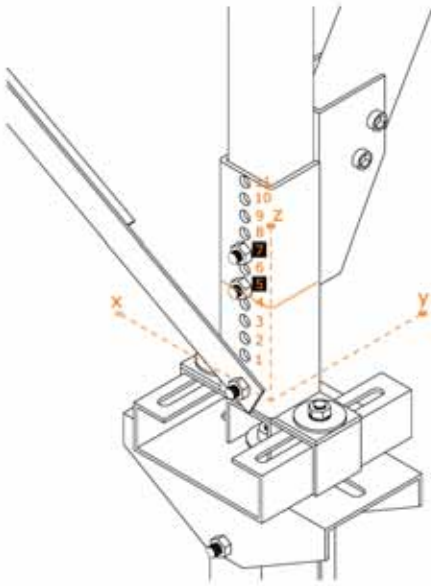
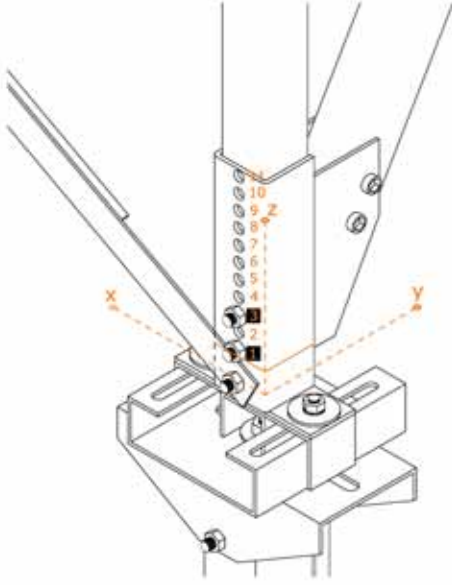
To correct the unevenness of the terrain this structure presents the advantage to be able to be regulated vertically (axis Z). For this, there are the multipoints that will be fixed with the supports of the structure, the back and the front ones. The multipoint presents a series of vertical orifices that allow the regulation up to 16 cm. With this we can absorb unevenness of the terrain of up to 5 % of difference (see page 3).

The new structure Enersol Biposte-II can also be regulated in the direction X. Thus we can regulate the distance between the back support and the front one of the same gantry. This fact consistently allows to control the alignment of the lines of the photovoltaic panels. For this the Center 1 of the structure presents two longitudinal grooves that allow the structure to move itself 74mm. to the left and to the right (see page 4).

To finish with this series of innovations that the new structure Enersol Biposte-II presents, it is also necessary to emphasize the possibility of regulation in the axis Y. It is possible to regulate the distance between contiguous gantries, being possible to homogenize the distances between them. For this reason the Pile's Head has a longitudinal groove on which the structure can move. Hereby we obtain a margin of regulation of 11 cm. in both directions (see page 5).

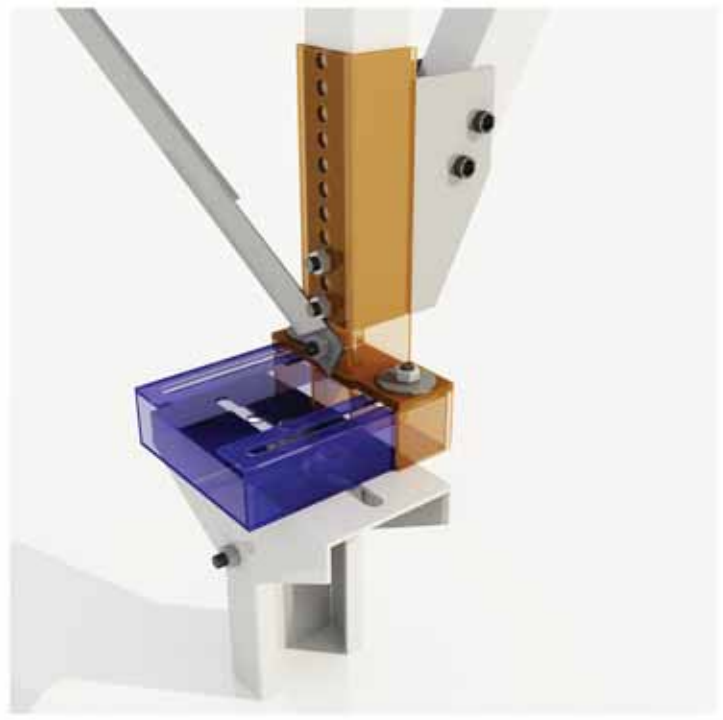
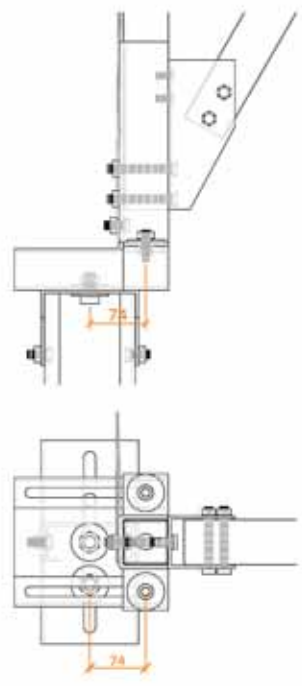
Thanks to all of these innovations the structure Enersol Biposte-II turns into the best option for the sustentation of a photovoltaic installation on ground due to the simplicity of assembly and the simplicity of regulation.

REGULATION **AXIS "Z"**

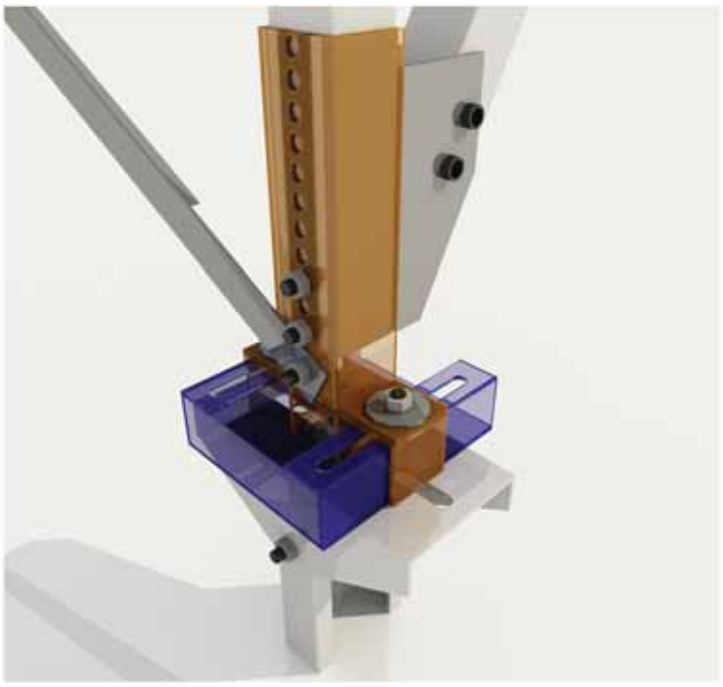
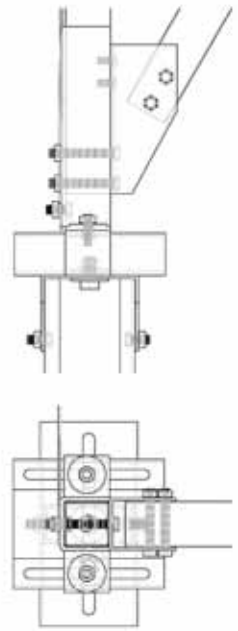


REGULATION **AXIS "X"**

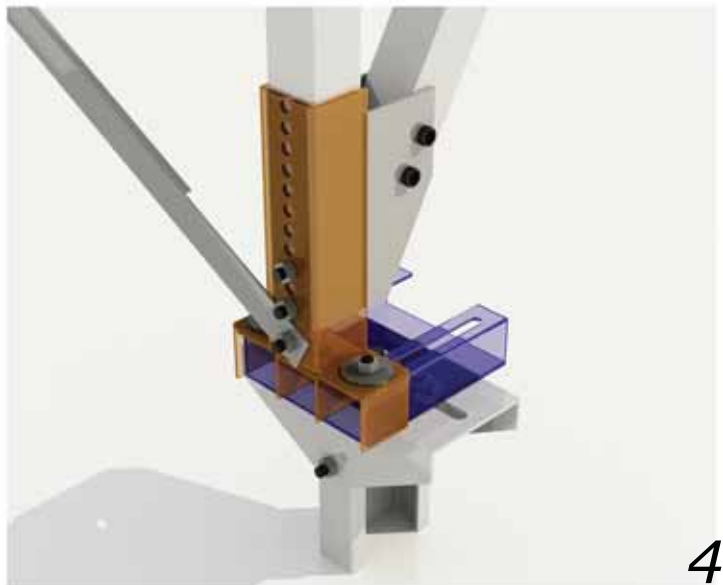
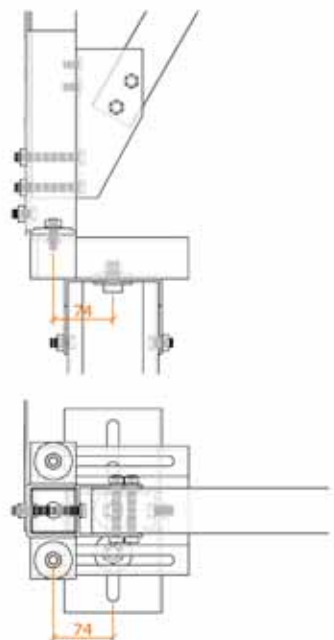
position 1



position 2



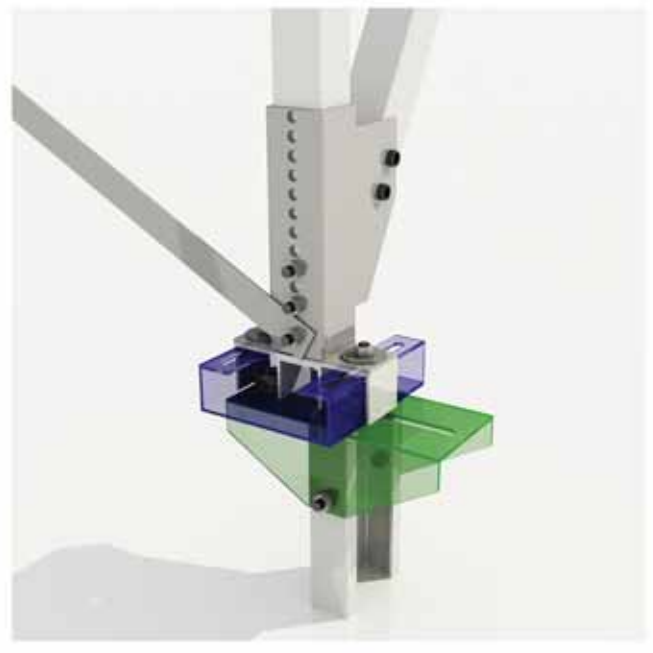
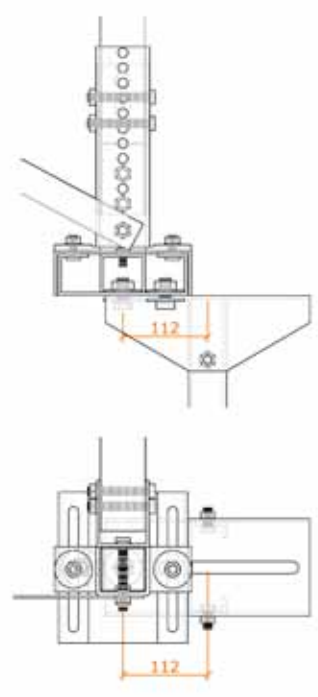
position 3



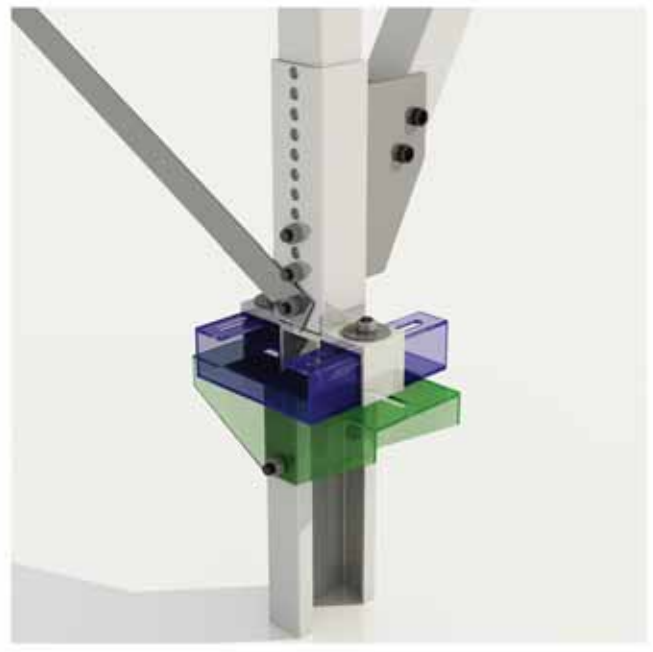
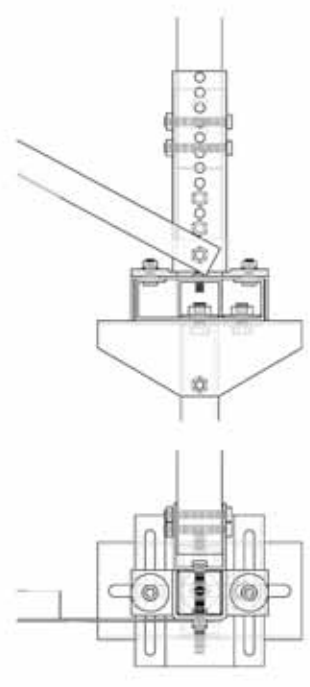


REGULATION **AXIS "Y"**

position 1



position 2



position 3

