SUPPLEMENTARY SUBSTRUCTURE

GETTING AN HORIZONTAL PLANE OR AN INCREASE OF THE INCLINATION

Adjustment

The aim of the supplementary substructure is the creation of a base where to be able to arrange the photovoltaic installation. For this reason its assembly must be rapid, simple and versatile. Adapted to any kind of roof and to any unevenness.

Totally watertight with **EPD rubber**

Without weld, the set is totally assembled by means of screws without needing to make welds The anchorage is adjustable and absorbs differences in roofs about 10cm/3m.

When we find disoriented roofs with walls, aerators, chimneys, extractors... The measurement of the installation is conditioned by these elements because they are occupying the surface where the panels might be. They throw shadows around them, leaving areas not usable for the installation.

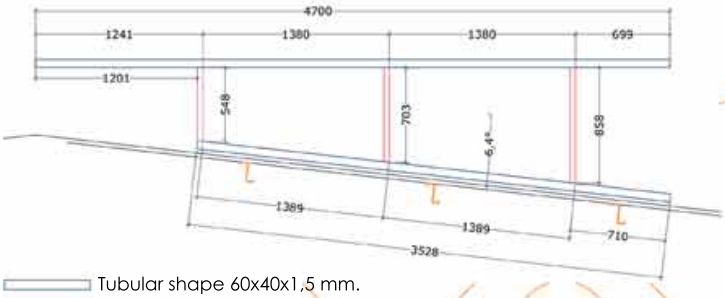
With the supplementary substructure a horizontal plane is created over the unwanted elements, and the **100% of the roof** surface is used. It makes the location suitable to receive a photovoltaic power installation in any roof.

For well-orientated roofs but with a low inclination, the substructure is created to increase the angle of inclination on the horizontal of the panels.

The main element that composes this product is the **Truss**, which is a beam of shaped lattice made of tubular and rectangular shapes and assembled by screws or weld, the execution of this work is executed always in workshop, and under the most demanding measures of control, the set is supplied the place of the installation with **the hot-dip galvanized surface treated**.

Enersol offers **10 years of Product Warranty**

Sección Tipo Cercha



Tubular shape 60x40x1,5 mm.
Tubular shape 40x45x1,5 mm.
Beam in orange colour that indicates de position of the anchorage

Anchored to the beams (Z shape, IPE, C..) the truss presents a perfect distribution of loads, so it leans perpendicularly on each and every of the beams, in addition it does not involve any over-load for the roof because it is made up by tubular shape with a thin thickness that affects load lower than **5 kg / m2**

Enersol Designs and Makes the right trusses

TECHNICAL CHARACTERISTICS	
Max. Lenght Truss	12 m (< lenght devided)
Max. Height Truss	2.5 m
Roof Inclination	0°-40°
Distance between supports	3 m
Anchorage Material	Stainless Steel with EPDM Rubber
Truss Material	Hot-dip Galvanized Steel
Screws	Stainless Steel
Max. Wind Load	150 KN/m2
Max. Snow Load	1,6 KN/m2
Vertical tubular shapes	40x40x1,5 mm
Upper tubular shapes	60x40x1,5 mm
Lower tubular shapes	60x40x1,5 mm
Diagonales	40x40x1,5 mm
Bracing	Angle Steel 25x3
Assembly system	Screwed

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Material

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

Supply and Performances

- Calculation of the Installation *
- Calculation of the truss*
- Supply of the anchorages*
- Assembly of the anchorages
- Supply of the trusses*
- Assembly of the trusses*

*** Items to be made by Enersol.**

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

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