



ILB ENSOL

STRUCTURE 4-H

KEY FEATURES OF ILB HELIOS STRUCTURES® – 4H



- ▶ Fixed metallic structure designed for 64 modules with a 30° slope on the horizontal, 82 m² and a power between 10-11,5 kW.
- ▶ Structural shape in C, U y Ω angles made of certified EN-10204 cool-rolled steel and hot galvanized without welding bumps, specifically designed for minimum weight and with high corrosion protection, due to a 350 g/m² zinc covering and a minimum of 2.750 kg/cm² yield maintenance.
- ▶ Structure designed according to the specifications established by EUROCODES 1 and 3, applicable in the whole of Europe. The most unfavourable wind and snow conditions have been taken into consideration.

- ▶ Foundations of small dimensions and minimal environmental impact, designed to distribute the load along the ground.
- ▶ Modular design allowing different PV module configurations both in dimensions and in disposition.
- ▶ Short time of assembly due to the small number of elements. Besides, due to the fact that the structure is not higher than 2 meters, the use of scaffolds is not required either for the assembly or the installation of PV modules.
- ▶ Designed for an easy installation and start-up because of the free spaces between elements.
- ▶ Easy to adapt to the ground irregularities and to the foundations since it is assembled bar to bar.
- ▶ All these aspects takes to an excellent quality – cost ratio structure

CERTIFICACIONES Y DOCUMENTACIÓN

- ▶ Certificates of all the materials used. Structural shape, joint-screws as well as anchorages.
- ▶ Delivery of memory report and calculations of every single structure, including knots, bars, loads, displacements, reactions, efforts and tensions.

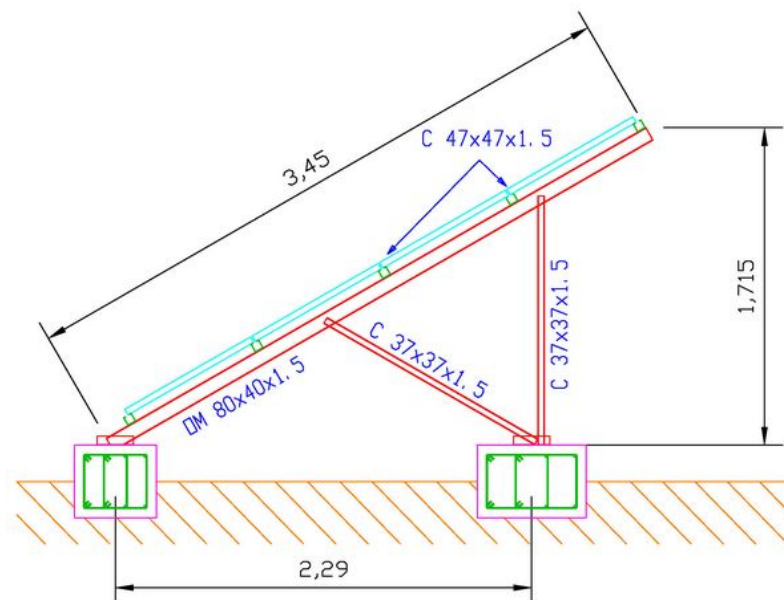




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SPECIFICATION

GENERAL SPECIFICATIONS	
Type	Fixed Structure
PV modules surface	82 m ²
PV module power	11 kW _{Peak} aprox. (depending on PV module type)
Dispositions of the modules	64 PV module in horizontal disposition (4 rows x 16)
CONSTRUCTIVES	
Structural shape	Cold-rolled and hot galvanized structural shape, 2.750 kg/m ² yield maintenance
Protection against corrosion	Hot galvanized steel with a 350 g/m ² zinc covering
Structure fixation system	Drilling screws 6,3 x 15 s/ DIN 7504-K
Wind	Up to 120 km/h
GEOMETRÍA	
Length	25,80 meters
Height	< 1,90 meters
Inclination	30°
Distance between triangle	1.600 mm adjustable (equal with the PV module length)
Distance between "C" bars	800 mm adjustable (equal with the PV module width)
Weight	525 kg (6,4 kg/m ²)



WARRANTY TERMS

► Warranty:

- Weatherproof structure 25 years
- Weatherproof equipment 25 years