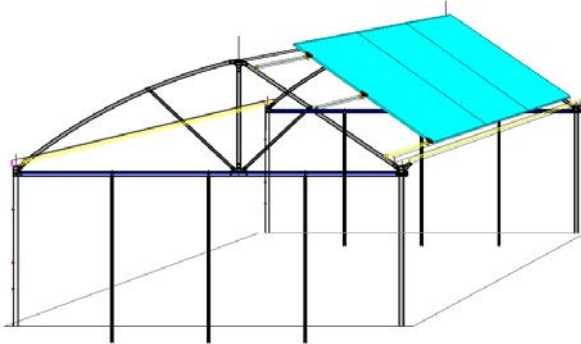




PHOTOVOLTAIC SOLAR ENERGY MOUNTING – GREENHOUSE – SI-ESF-S-GREEN



Greenhouses are enclosures in which temperature, humidity and other environmental factors are kept help to promote agricultural crops. They are always located in open areas where they receive large amounts of direct solar radiation.

Greenhouses commonly used in agriculture, have an arc section and are located longitudinally north-south to reduce excessive radiation during mid-day. The overall result in a cultivation system is characterized by an optimal temperature profile avoiding peaks that may be harmful.

Solar Innova greenhouses are calculated and constructed to resist both the weight of its own roof with photovoltaic modules and other loads such as rain, wind and snow.

Metallic structure in Solar Innova greenhouses is obtained by repeating a base module whose floor and elevation dimensions have been designed specifically so that the installation of the photovoltaic system is completely fit. Its crystal and metal structure is perfect for the integration of solar panels and from an aesthetic point of view it does not have any impact in the surrounding environment.

In short, the reasons for the installation of a solar greenhouse are:

- ✓ Aesthetic value
- ✓ Total integration
- ✓ Improvement in the production of crops
- ✓ Sale of clean energy
- ✓ Reduction of CO2 emission among others





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QUALITY

- √ The structures are adapted to the different dimensions of the panels.
- √ The quality of steel in all elements of these structures is S-235/275/355JR, according to EN 10027-1:2006 y CR 10260.
- √ Elements can be supplied with other qualities and finishes depending on customer requirements and based on the UNE-EN 10326:2007 (Ex: S250SD + Z275).
- √ All structural elements and fixings are hot dip galvanized according to UNE-EN ISO 1461:2010.
- √ The elements have a durable galvanized as established in the UNE-EN ISO 14713:2011, depending on the type of environment to which they are exposed.
- √ In these structures the connections between all elements are bolted, not welded existing before or after the finishing process.
- √ Including all hardware and fasteners. The hardware is stainless steel quality A2, metric M8-M10-M12-M16.
- √ Ease and speed of assembly due to the simplicity their components and joints because it does not required welding on site.
- √ The enclosures can be flexible (plastic film) or rigid (PVC, polycarbonate, etc).
- √ All models can incorporate a ventilation system on deck.

CERTIFICATES

Our production facilities have been prepared in accordance with the provisions of the Guidelines:

- √ ISO 9001, in terms of Quality Management Systems.
- √ ISO 14001, in terms of Environmental Management System.
- √ OHSAS 18001, in terms of Occupational Health and Safety Management Systems.