

STANDARD PHOTOVOLTAIC GREENHOUSE



Multi pitch and one pitch photovoltaic greenhouse

REN9002

Photovoltaic greenhouse REN9002

- REN9002-6400: Mono-pitch greenhouse.
Span width 6,40m

 - REN9002-9600: Multi-pitch greenhouse.
Span width 9,60m

 - REN9002-12000: Multi-pitch greenhouse.
Span width 12,80m
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REN9002 greenhouses are hot galvanized steel structures class A30 (designed to stand loads of 30 years of useful life of the structure)

Ren9002 greenhouses are designed according to the place of installation, to finishes and details.

Support structures are hot galvanized steel tubular profiles.

Sheeting profiles, besides being load bearing, they grant the structure water-proofing. The solar panel is indeed inserted inside the profiles and the proofing is granted by suitable gaskets.

Prepainted steel sheet metal is on demand.

Following kinds of greenhouse coverings are available (increasing costs list):

A) Side covering in high transparent polythene films, header covering in neutral corrugated glass-fiber;

B) Whole neutral corrugated glass-fiber covering;

C) Whole polycarbonate covering;

D) Whole glass covering.

Our greenhouses are class A30 according to European Standard UNI EN 13031-1 (Greenhouses: Design and construction - Commercial production greenhouses).

We furnish it with calculation signed by qualified professionals, and it fulfills the technical standards for constructions (D.M. January 14th 2008) with the uses of destination and the classifications provided by UNI EN 13031-1 (Greenhouses: Design and construction - Commercial production greenhouses).

We can provide if required the following services and documents.

- Electrical system declaration of conformity to Law 37/08**
- Greenhouse structural analysis report according to the technical standards for constructions (D.M. January 14th 2008) and to UNI EN 13031-1 (Greenhouses: Design and construction - Commercial production greenhouses), stamped and signed by qualified professionals.**

Foundations analysis report according to Unified Code 2008 and to UNI EN 13031 stamped and signed by qualified professionals (only for standard plynths).

- Drawing material for the construction of building works (plynths, concrete works, tanks).**

Calculation standards

Our structures are designed to bear loads and over-loads according to the Technical Standards for constructions (D.M. January 14th 2008)

a) guidance value of the snow load on the ground altitudes under 200 m with return period of 50 years:

ZONE 1 - 1,50 kN/m² (153 kg/m²)

ZONE 2 - 1,00 kN/m² (102 kg/m²)

ZONE 3 - 0.60 kN/m² (61 kg/m²)

b) wind speed range to the ground with return period of 50 years:

ZONE 1 and 2 - 25 m/s (90 km/h)

ZONE 3 - 27 m/s (97 km/h)

ZONES 4, 5, 6,7 - 28 m/s (100 km/h)

ZONE 8 - 30 m/s (108 km/h)

ZONE 9 -31 m/s (112 km/h)

For the A30 classification, these loads are reduced according to UNI EN 13031-1 (Greenhouses: design and construction - commercial production greenhouses).

From a seismic point of view our structures are designed as to bear the actions according to technical standars for construction (D.M. January 14th 2008).

N.B.: It is constructor's responsibility to deposit the calculation reports to the competent authorities.

One-pitch photovoltaic greenhouse REN9002-6400
Class A30

One-pitch photovoltaic greenhouse

Module dimensions: 6,40m x 4,00m

Width: 6,40m

Gutter height: 2,50m

Pitch inclination: 21°

Modules are combined as to obtain the desired length.



Description	Note	Surface		
		> 500 m ²	> 1500 m ²	
Steel structure	ex-works supply	90.00	76.50	€/m ²
A) Structure+covering A	Supply complete structure type A	108.00	91.80	€/m ²
B) Structure+covering B	Supply complete structure type B	124.80	106.08	€/m ²
C) Structure+covering C	Supply complete structure type C	134.40	114.24	€/m ²
D) Structure+covering D	Supply complete structure type D	144.00	122.40	€/m ²
VAT not included Photovoltaic system not included Concrete works and plynths not included Transport and assembly not included				

Features

Greenhouse type A):

Hot galvanized steel structure

Headers covering in neutral corrugated glass-fiber

Header door in zinc-coated sheet metal

Lateral covering in high-transparent polythene film class E, UV stabilized, extra EVA, extra spillproof on the inner side of the film

Winding lateral openings with rotating pipe, Al profile fastening the film and rigid plastic lateral plugging.

Greenhouse type B):

Hot galvanized steel structure

Headers covering in neutral corrugated glass-fiber

Header door in zinc-coated sheet metal

Lateral covering in neutral corrugated glass-fiber

Lateral sash-windows (gearmotors to open the windows included)

Greenhouse type C):

Hot galvanized steel structure

Headers covering in polycarbonate

Header door in zinc-coated sheet metal

Lateral sash-windows (gearmotors to open the windows included)

Greenhouse type D):

Hot galvanized steel structure

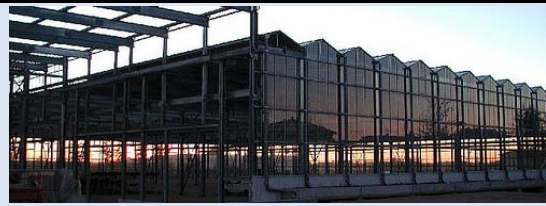
Headers covering in glass

Headers with zinc-coated double sliding doors

Lateral sash-windows (gearmotors to open the windows included)

Multi-pitch photovoltaic greenhouse REN9002-9600
Class A30

Multi-pitch photovoltaic greenhouse
Module dimensions: 9,60m x 4,00m
Width: 9,60m
Gutter height: 3,50m
Pitch inclination: 21°
Modules are combined as to obtain the desired length and width.



Description	Note	> 500 m ²	> 1500 m ²	
Steel structure	ex-works supply	84.00	71.40	€/m ²
A) Structure+covering A	Supply complete structure type A	103.20	78.67	€/m ²
B) Structure+covering B	Supply complete structure type B	115.20	97.92	€/m ²
C) Structure+covering. C	Supply complete structure type C	134.40	114.24	€/m ²

VAT not included
 Photovoltaic system not included
 Concrete works and plynths not included
 Transport and assembly not included

Features

Greenhouse type A):

Hot galvanized steel structure
 Headers covering in neutral corrugated glass-fiber
 Header door in zinc-coated sheet metal
 Lateral covering in neutral corrugated glass-fiber
 Top windows (gearmotors to open the windows included)

Greenhouse type B):

Hot galvanized steel structure
 Headers covering in polycarbonate
 Header door in zinc-coated sheet metal
 Lateral covering in polycarbonate
 Top windows (gearmotors to open the windows included)

Greenhouse type C):

Hot galvanized steel structure
 Headers covering in glass
 Header door in zinc-coated sheet metal
 Lateral covering in glass
 Top windows (gearmotors to open the windows included)

Multi-pitch photovoltaic greenhouse REN9002-12000
Class A30

Multi-pitch photovoltaic greenhouse
Module dimensions: 12,80m x 4,00m
Width: 12,80m
Gutter height: 3,50m
Pitch inclination: 21°
Modules are combined as to obtain the desired length and width.



Description	Note	Surface	> 500 m ²	> 1500 m ²	
Steel structure	ex-works supply		84.00	71.40	€/m ²
A) Structure+covering A	Supply complete structure type A		100.80	85.68	€/m ²
B) Structure+covering B	Supply complete structure type B		112.80	95.88	€/m ²
C) Structure+covering C	Supply complete structure type C		132.00	112.20	€/m ²
Agli importi deve essere aggiunta l'iva di legge Escluso impianto fotovoltaico Escluse opere civili e opere di fondazione Escluso trasporto e montaggio					

Features

Greenhouse type A):

Hot galvanized steel structure
 Headers covering in neutral corrugated glass-fiber
 Header door in zinc-coated sheet metal
 Lateral covering in neutral corrugated glass-fiber
 Top windows (gearmotors to open the windows included)

Greenhouse type B):

Hot galvanized steel structure
 Headers covering in polycarbonate
 Header door in zinc-coated sheet metal
 Lateral covering in polycarbonate
 Top windows (gearmotors to open the windows included)

Greenhouse type C):

Hot galvanized steel structure
 Headers covering in glass
 Header door in zinc-coated sheet metal
 Lateral covering in glass
 Top windows (gearmotors to open the windows included)

GENERAL NOTES

Prices above are approximate and will be confirmed after the definitive design.

All prices refer to the goods supply.