



MegaSlate® – Customized Aesthetic, Affordable Price

MegaSlate® is a Building-Integrated PV (BIPV) roofing system. It consists of frameless individual modules which comprise an overall roof system that is adaptable to the dimensions of a roof.

MegaSlate® is the ideal, simple and cost-effective solution for the owner, architect and planner who demands both functionality and beauty out of a roofing system. The system is simple & easy to assemble & install which makes the project affordable for the owner & a pleasure for the contractor.



System and Installation: Battens

A MegaSlate® roof should be well ventilated. To achieve this goal, the support structure consists of counter-battens which have to be at least 2" high to assure good ventilation. Battens of well dried timber and a cross-section of 1 1/4" x 3 3/4" mounted on top.



Looking Up at the Batten Structure

Maximizing Power Production

- Roof orientation within 30° of south,
- MegaSlates® unshaded from 9 am to 3 pm,
- Unprotruded roof surface should have no protrusions, &;
- Roof surface should have 3/12 pitch or more.

Power Production Potential

Each 100 ft.² of roof space will accommodate 1 kW_p of installed MegaSlate® capacity. In the U.S., an average annual yield of approximately 1,250 – 1,750 kWh of electricity.

Custom Solar Solution

MegaSlate® roof elements are produced at optimal size for the available roof surface. This enables an maximum power production while achieving your aesthetic design goals. Chimneys and Skylight can be integrated with system solutions, if necessary MegaSlate® dummy elements are available.

Skylight Detail



Photovoltaic Support Structure

The system-specific support structure consists of channel profiles is mounted onto the substructure. These profiles (i.e., channels) with rubber elements at the sides serve to support the individual MegaSlate® elements and drain off



water. Each MegaSlate® element is secured with coated brackets.



Field Cabling

The cable should be laid to connect the modules and the combiner box before installing the MegaSlate®.

Installation

In contrast to standard roof tilting, MegaSlate® modules are preferably laid from top to bottom. Before securing MegaSlate® into the brackets, they are connected with touch safe electrical connectors. Appropriate functioning check is required before commissioning the system. Installation manual available upon request.

Operation

After connection of the cables to the terminal box on the DC side and connection to the inverter on the AC side,



electricity produced by the building can be fed into the grid.

Technical Specifications

- Poly or Monocrystalline cells,
- Horizontal Length – 52 inches approx.,
- Vertical Length – 39.3 inches approx.,
- Modules overlap $\frac{5}{16}$ ",
- Electrical Power – 130 to 150 W_p,
- Glass thickness – $\frac{1}{4}$ " to $\frac{7}{16}$ ", &
- Electrical touch-safe connector.

System Components

- MegaSlate® Photovoltaic Module(s),
- Mounting Channel Profiles,
- Rubber Gaskets (Channel-integrated),
- Coated Roof Attachment Brackets,
- Cabling, Field Combiner Box, &
- All attachment materials.

MegaSlate® PV modules are easy to exchange if required.

See local requirements for the sub-roof fire and water repellent codes.

The MegaSlate® roof can be walked on by qualified personnel on installation and for maintenance purposes.

Call us for Pricing & Dealer Info.

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www.AtlantisPV.com

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