



System MV3, the building integrated photovoltaic solution for industrial, agricultural and collective buildings

mecosun
Your Best Support

en

COMPLYING
with CEIAB

With Mecosun building integrated photovoltaic systems, you can ensure that your building roof is weather-tight thanks to our patented system using a mechanical drainage principle.

Not only that, as our system does not require an underlay, you get higher module output and the highest feed-in tariff in countries with the respective legislation.



Solution
With the technical evaluation
of the CSTB

Reliability & long life

- Control of expansion stresses between roof structure and photovoltaic modules
- Materials used are recyclable and selected for long-term weather-resistance (aluminium profiles, stainless steel fastenings, etc.)

Optimization & profitability

- Can be cantilevered up to 0.64 m above the ridge purlin and 1m below the gutter, equalling an extra module per vertical array
- System without underlay for enhanced module ventilation to increase installation output by 5 to 10% (on-site data recorded for over 12 months)

Easy to set up and install

- Designed in close collaboration with qualified professional installers
- High installation productivity with 60 m² put in place per day (including removal of existing roof covering) by 3 people (approximately 40 modules)
- Only a few tools required
- The underside can be worked on so that roof covering and cabling can be carried out as separate operations

Maintenance & monitoring

- The system has no areas which are vulnerable to dirt build-up or moss growth, ensuring that your roof stays clean all year round
- Access to the cabling connections from inside the building (without removing the modules) means work on the system can be carried out faster and without worrying about the weather

Design

- The system blends in aesthetically with the roof structure on the outside of the building and gives an exceptionally good finish on the inside
- Aluminium profiles can be treated with coloured lacquer in a colour of your choice (black, blue...)

Adaptability & flexibility

- All types of framed modules
- All types of roof structure, direct fixation on purlins
- All types of sloping roof from 5 to 50°
- All types of side finishes can be used
- Maximum weight of 5.5 kg/m²

Formation

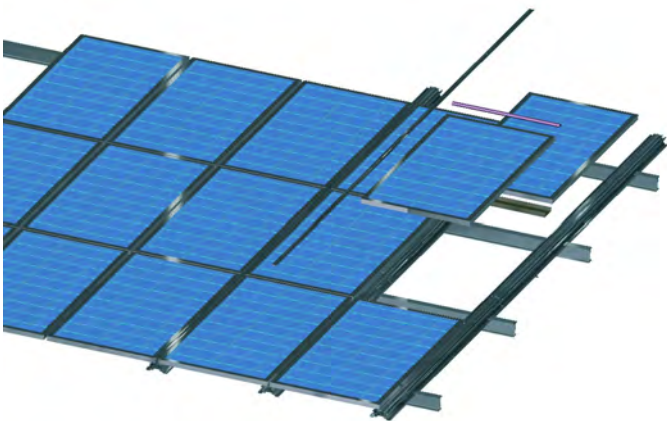
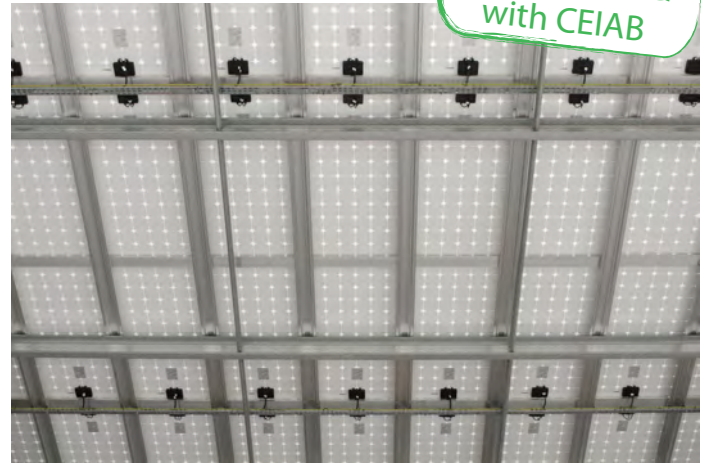
Mecosun, which is officially approved as a training organization, provides you with training and assistance through a course on system installation. The day-long course provides you with the best possible advice for your first installation and also gives you our materials warranty.

> Your guarantee of MECOSUN's experience:

- * 700,000 m² of installations using our solutions since 2006
- * Industrial support compliant with the Technical Evaluation of the CSTB

General technical specifications

| | Standard beams | Attachment method |
|--|---|--|
| For metal roof structures | IPN from 80 to 180 (standard) IPE from 80 to 220 (en standard) HEA from 100 to 120 Thin sheeting profiles (e>1.5mm) | Interface profiles Interface profiles Interface profiles Fixing clips |
| For wooden roof structures | Traditional or laminated | Fixing clips |
| For concrete roof structure | Beams with metal inserts | Fixing clips |
| Structural load | Maximum 5.5 kg/m ² | |
| Permissible roof slope | From 5° to 50° (from 8% to 120%) | |
| Distance between 2 supports beams | Maximum 2,5m | |
| Wind areas (NV65) | Zone 4 (Zone 5, on case study) | |
| Snow areas (NV65) | Zone D - Altitude 900m | |
| Module orientation | Portrait or landscape (on conditions) | |
| Length of roof slope | Maximum 27m for standard installation, 40.5m for special (above this length, consult us) Option: solution MV3-L, to 13.5m maximum length of roof slope | |



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MV3 System specifications, version 05.2011
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