



# MV3L System

en

the building integrated photovoltaic solution for industrial, agricultural and collective buildings with short slope

## mecosun

Your Best Support



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.

### MV3L strengths:

- certified by french-office certification CSTB
- fire rating BROOF T3
- ultra-lightweight system for short slope under 13.5m.



### 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 0.50 m above the ridge purlin and 0.50m below the gutter
- 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 m<sup>2</sup> 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 4.5 kg/m<sup>2</sup>

### Training

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.

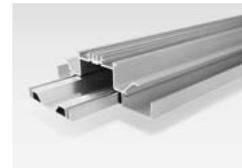
### > Your guarantee of MECOSUN's experience:

- \* 500,000 m<sup>2</sup> of installations using our solutions since 2006
- \* Industrial support compliant with the Technical Evaluation of the CSTB
- \* All solutions complying with CEIAB criteria's

## 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)	Fixing clips Fixing clips Fixing clips Fixing clips
For wooden roof structures	Traditional or laminated	Fixing clips
For concrete roof structure	Beams with metal inserts	Fixing clips
Structural load	Maximum 4.5 kg/m <sup>2</sup>	
Permissible roof slope	From 5° to 50° (from 8% to 120%)	
Distance between 2 supports beams	Maximum 1,75m in portrait mode and 1.4m in landscape mode	
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 13.5m	

**COMPLYING**  
with CEIAB



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MV3L System specifications, version 12.2009  
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