



# MVE System, the technical and economical integrated photovoltaic solution for industrial and agricultural buildings

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**mecosun**

Your Best Support

## The MECOSUN know how and performance at the best price!

Realize 80% of your projects  
with one simple, technical and  
economical product

Get benefit from MECOSUN  
experience on more than  
140MWc of installation

Go for a solution both  
economical and reliable

### Technical mastering from MECOSUN experience

#### ⇒ Adaptability & flexibility

- Adaptable to all types of roof structure, metallic, wood and concrete
- Adaptable to slopes up to 27m long and distance between purlins up to 1.6m
- Adaptable to all types of framed modules
- Adaptable to all sloping roof from 5° to 50°

#### ⇒ Reliability & long life

- Aluminium rails and inox fastenings for a high resistance to natural elements over time
- The system has no areas which are vulnerable to dirt build-up or moss growth, ensuring that your roof stays clean all year round
- Control of expansion stresses between roof structure and photovoltaic modules

#### ⇒ Design

- The system blends in aesthetically with the roof for a perfect looking aspect
- Possibility to colour the accessories (black, blue, red, ...)

#### ⇒ In compliance with the standards

- Compliant with building integrated photovoltaic criteria's
- Eligible to best feed in tariff

### An economical & optimized solution

#### ⇒ Optimization of the materials

- Industrial processes optimized for the extrusion of the aluminium rails
- Can be cantilevered up to 0.3m above the ridge cup and below the gutter to maximize module PV layout
- One product to fill 80% of the market needs

#### ⇒ Easy to set up and install

- Maximum weight of 4.5 kg/m<sup>2</sup> (without pv module) to simplify the handling
- Few tools
- High installation productivity

#### ⇒ Ventilation & performance

System without underlay with openings creating an air flow for a better ventilation of the pv modules for an additional 10% efficiency minimum

#### Training

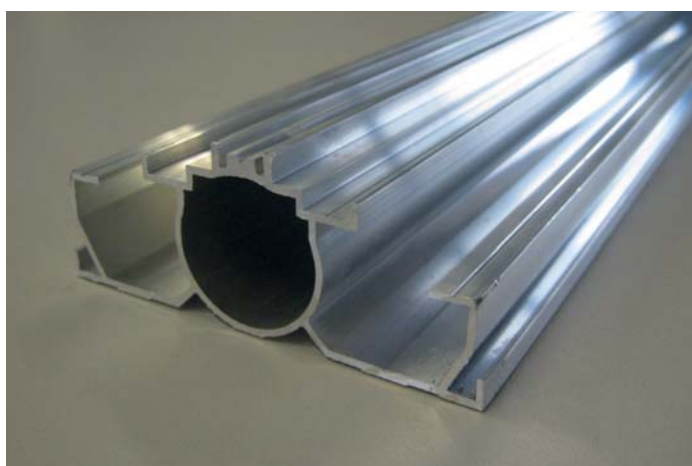
Mecosun, which is officially approved as a training organization, provides you with training and assistance through a course on system installation. A day-long course to give you our best advises and experience and to be certified "MECO-Bat" installer.



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

- \* 1,000,000 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	Fastening method
For metal roof structures	IPN from 80 to 180 (standard) IPE from 80 to 220 (standard) HEA from 100 to 120 Thin sheeting profiles	Fixing clips Fixing clips Fixing clips Fixing clips
For wooden roof structures	Traditional or laminated	Fixing clips
For concrete roof structures	Beams with metal inserts	Fixing clips
Structural load	Maximum weight 4.5 kg/m <sup>2</sup>	
Permissible roof slope	From 5° to 50° (from 8% to 120%)	
Distance between two support beams	Maximum 1.6m	
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 (above this limit, consult us)	



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