



FVG3 System

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

Adaptability & Flexibility

- Adaptable to all types of FVG ENERGY PV module series
- Adaptable to all types of roof structures, direct fixing on purlins
- Adaptable to all types of sloping roofs from 5 to 50°
- All type of finishing sides can be used
- Maximum weight of 5.5 kg/m²

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
- Industrial processes optimized for the extrusion of the aluminium rails

Warranty & Quality Standards

- 5-Year manufacturer's warranty on materials and components with a specific additional insurance covered by a leading European Insurance company
- Compliant with European building integrated photovoltaic criteria
- Eligible to higher feed in tariff for BIPV installations

Reliability & Long life

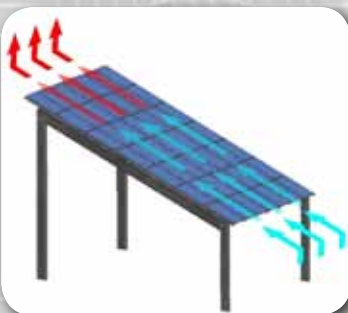
- Aluminium rails and stainless steel fastenings for a high resistance to environmental elements over time
- The system has no areas in which is vulnerable to dirt build-up or moss growth, ensuring that your roof stays clean all year round
- Control of expansion stresses between roof structure and photovoltaic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

Easy to Set Up & Install

- 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

Design

- The system has been developed by a leading European company in the roof-integrated mounting support's field with great experience and technical know-how
- The system blends aesthetically with the roof for a perfect appearance
- Possibility to colour the accessories (black, blue, red, ...)



Ventilation & Performance

System without underlay with openings that creates an air flow for a better rear ventilation of the PV modules for an additional 10% efficiency minimum

Training

FVG ENERGY, in partnership with Mecosun, analyzes the Customer's request, defines the type of project, stands over the set up and installation process arranging trainings and assistance through trainings on system installation and gives a professional after-sales support

Technical Specifications

	Standard beams	Fastening method
For metal roof structures	IPN from 80 to 180 (standard) IPE from 80 to 200 (standard) HEA from 100 to 120 Thin sheeting profiles (e>1.5 mm)	Interface profiles Interface profiles Interface profiles Fixing clips
For wooden roof structures	Traditional or laminated	Fixing clips
For concrete roof structures	Beams with metal inserts	Fixing clips
Structural load	Maximum 5.5 kg/m ²	
Acceptable roof slope	From 5° to 50° (from 8% to 120%)	
Distance between two support beams	Maximum 2.5 m	
Wind areas (NV 65)	Zone 4 - Zone 5 (case study)	
Snow areas (NV 65)	Zone D - Altitude 900 m	
Module orientation	Portrait or landscape (on conditions)	
Length of roof slope	Maximum 27 m for standard installation, 40.5 m for special (above this length, consult us) Option: solution MV3-L, to 13.5m maximum length of roof slope	

