



SIG Solar panels

Integrated photovoltaic solutions for flat roofs



SIG Design Technology, in partnership with Redsky Solar Ltd, has developed the first photovoltaic system for flat roofs that has its module, substructure, maintenance walkway and cable management system integrated into a single unit.

This unique and innovative photovoltaic system is supported by in-house knowledge, experience and technical capabilities to deliver a fully managed solution from project design through to installation and commissioning.

Description

Panels simply click together making it not only easy to install, but also strong under extreme weather conditions. The pioneering design is a non-penetrative system which uses membrane patches and/or ballast depending on the roof covering. This makes it ideal for roof renovations.

The system is suitable for all roof structures and lightweight roofs with a carrying load capacity greater than 12.9kg/m². Panels are fixed to the substructure at an inclination of 10° to ensure a maximum yield per m² of roof area.

The system has a standard warranty of 10 years.

Systems for standing seam, trapezoidal and metal roofs are also available.

Benefits

- A flexible solution with the ability to meet the needs of all projects
- No traditional substructure or aluminium frame is needed for installation
- Simple and fast installation with no roof penetrations which maintains warranty
- No corrosion with other materials
- Low system weight – 12.9kg/m²
- High power density – up to 310 Wp modules
- No shading caused by the mounting systems
- Integrated maintenance walkway and cable management system
- Comprehensive warranties for all system components



The total photovoltaic offer

Our solar solutions are built on our experience and capabilities in all aspects of a building envelope project from design and planning through to full project delivery. Our experience has helped us gain approval for the fixing detail from all the major global roofing manufacturers.

Design capabilities:

- Full in house design capabilities ensuring quality from start to finish
- We produce a full set of design calculations to ensure project accuracy at all times
- Using our extensive building envelope expertise, we are able to ensure a fully integrated system bespoke to the building fabric. Maintaining any existing warranties provided by roof and wall system manufacturers
- Our site team work from a comprehensive set of drawings provided by the design team enhancing communication
- We look to offer a value engineering solution wherever possible

Our people:

We are well known for our outstanding customer support and safe working practices all of which have been achieved through constant investment in training and certification of all personnel.

Our project management capabilities:

All our programmes are prepared using the latest software, along with method statements and risk assessments, which enables us to deliver projects to the highest possible standards ensuring safety which is paramount.



A simple system – easy to install and no penetrations, no complex detailing

The simple, easy to assemble system is so quick to install, savings on installation cost are also available, making the system cost competitive.

More efficient than most products on the market; modules have an efficiency of up to 16.2%



Lightweight (12.9 kg/m²)

The system has been designed with an integrated cable tray, which also doubles as a walkway between panels. This removes any trip hazards, and enables easy access for maintenance teams





Take the risk out of roof design...

- The right products for your project to meet the requirements for:
 - Carbon capture
 - Insulation
 - Roof longevity
 - Energy generation
- Design covered by our PI insurance
- Genuine choice of waterproofing
- Part of a FTSE 250 company

About SIG Design Technology

SIG Design Technology is a part of SIG Roofing, a leading division of SIG plc, a FTSE 250 listed company and the UK's market leading specialist supplier to professionals in the building and construction industry.

SIG Design Technology is at the forefront of design, supply and guaranteeing exclusive 21st century roofing solutions. Every component is carefully tested and selected for its sustainability, functionality, longevity and/or aesthetic strengths to guarantee total roofing solutions from inspiration to installation.



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