

SOLAR **MOUNTING** SYSTEMS

WHAT ARE YOU LOOKING FOR?

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WORKING TO CREATE & MAINTAIN STANDARDS

We feel a shared responsibility to significantly contribute in the development and awareness of solar energy in the UK and beyond. We're actively working in cooperation with the Micro Generation Certification Scheme through collective working groups, lending our expertise and industry knowledge to establish and maintain suitable Standards to help solidify correct, professional practices.

OUR CASE STUDIES

To date we've completed the design, manufacture and delivery of over 1000 unique and profiled projects within the UK and Europe, working with recognised names such as, Sainsburys, Battersea Dog Homes and ASDA.

Look at some of our other notable projects.

DESIGNING, MANUFACTURING & SUPPLYING

Since the incorporation of SUNFIXINGS in January 2011, we've strengthened our presence in the solar industry as a trusted leader in designing, manufacturing and supplying quality solar PV mounting systems. Through our continued flexibility and developing innovation we concentrate our efforts in building, maintaining and reinforcing business relationships with both our customers and supply partners to provide a streamlined and committed service. For us, quality as a principle, forms the foundation of our core ethos and is routinely applied to all aspects of our growing business.

PROTECTING A RENEWABLE FUTURE

We consider the protection, growth and accessibility of a sustainable future for all to be our most important focus and as such, we're investing our efforts and resources into furthering the development of safe, effective and affordable solar PV mounting systems.

WE'RE LOCAL.

We understand that sometimes projects may need to be installed within a short space of time to adhere to the ever changing solar industry, which is why we strive hard to ensure that our logistics service is flexible enough to accommodate this. With a large stock holding of our standard solar PV mounting systems readily available at our headquarters in Bourton on the Water, Gloucestershire, we can facilitate a prompt delivery service for the UK and often offering next day delivery if necessary.

ON-SITE SUPPORT

Our extensive experience, knowledge and skill set across many sectors allows us to tailor our design and manufacturing service to your specific requirements to find the most suitable and effective solar PV mounting solution. We undertake each project with the same commitment and precision, from concept stage through to delivery of the final product. Our support doesn't just end once your product is delivered either. We have several members of our dedicated team based throughout the UK and they're on hand to offer on-site support and training locally to your project or offices.

TRAPEZOIDAL PROFILE ON ROOF SYSTEMS



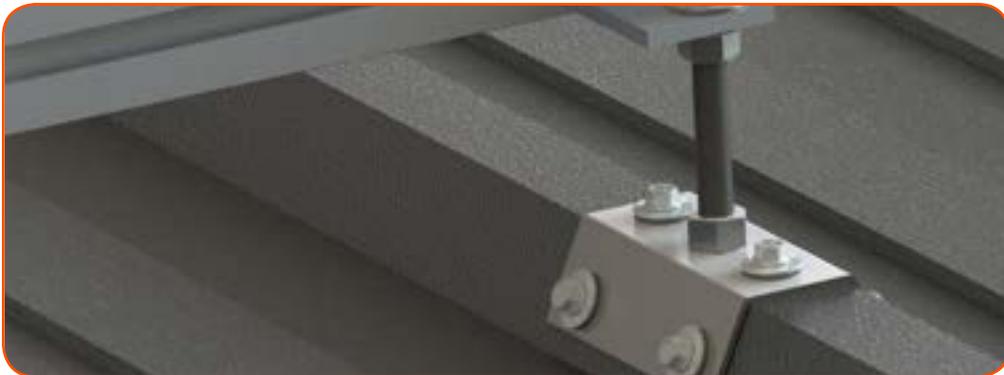
Mounting Rail Direct

With its low, continuous mounting rail profile, this system allows the weight and pressure of the solar modules to be distributed evenly across the roof, which helps to avoid heavy point loading that could otherwise damage and deform the trapezoidal profile.



Hanger Bolt

With a wide range of different sizes available in stock, it doesn't matter if your project involves timber or steel substructures, we can help you find the best fit for your project.



Trapezoidal Console

The console is designed to sit over the trapezoidal crown and can fix either into the roofing sheet itself or provide additional fixing into the substructure.

It doesn't matter whether the substructure is steel, timber or concrete, we'll supply the correct type and size of fixing screws for your project.

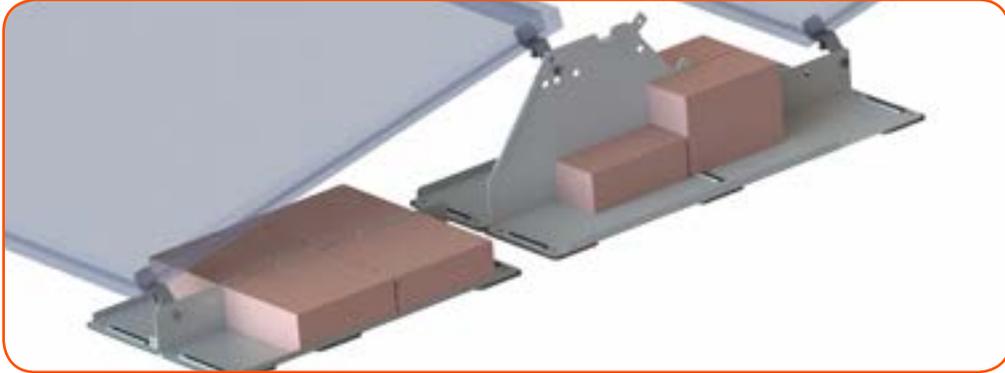


Concrete Purlin Bracket

An alternative solution for problematic purlins, particularly concrete ones, is our bracket that securely clamps around the purlin rather than fixing directly into it.

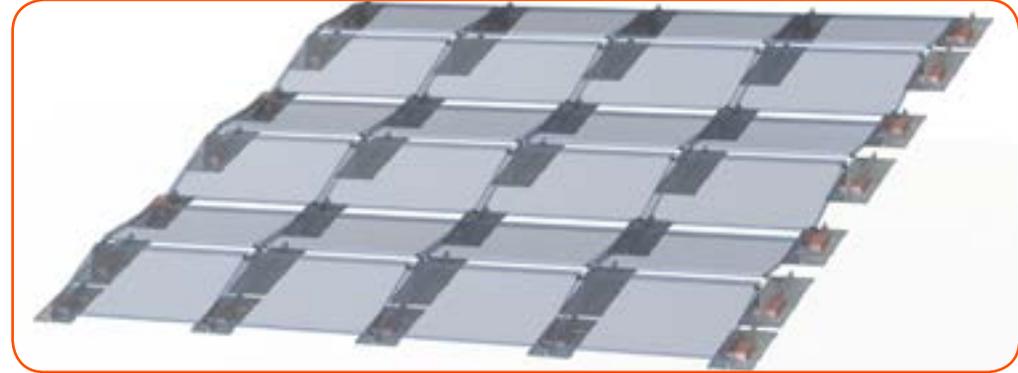
The bracket has 2 flat plates, 1 for the top of the purlin and another for the bottom. These plates are held in place using threaded rods, which creates a secure clamp around the purlin.

FLAT ROOF ON ROOF SYSTEMS



Light Tegra

We've incorporated aerodynamic principles into the design so that the system uses the effects of the wind uplift to create suction against the roof, which in turn dramatically reduces the amount of additional ballast. We've taken significant steps to ensure that our system complies and protects the existing roof covering by applying a separation layer to the bottom of the support feet prior to delivery. The support feet are also slightly curved around the edges to avoid any sharp edges, so that they don't damage the existing roof covering.



East West Tegra

With this system we can create an east west split for the modules, which reduces the space required between the rows of modules and in some cases allow more modules to fit on the roof compared to a north south split. We've specifically designed the support feet to be wide enough to distribute the weight of the system over a greater area, so there aren't any heavy point loads.



Hook Plate

Our Hook Plate system gives an alternative solution by mechanically fixing to the roof via a secure connection to the roof deck. Not only does this method avoid lifting and placing ballast onto the roof, it also removes the necessity to fix into the roof's main structure, which sometimes isn't easy to locate during the installation.



Elevation Ballast

The elevation frames fix directly into the ballast using either stainless steel screws specially designed for fixing into concrete or chemical anchors. The ideal ballast to use for this system is either concrete blocks or lintels with a minimum 100mm depth.

GROUND MOUNTED

CONNECTING TO THE TERRAIN



Park Tegra Ground Anchor

This system is designed to easily screw into ground that has a high clay content, making it a fast and popular solution, particularly for small to medium projects.



Park Tegra Pile Driven

Using traditional piling techniques used throughout the construction industry, this system has a single leg that is driven into the ground to achieve a secure anchoring point, making it a quick, streamlined installation for medium to large projects.



Park Tegra Ballast

We've designed the support feet, that sit beneath the main structure, to fix directly into concrete ballast using chemical anchors. There are 2 main fixings per support foot, which provide a secure hold into the concrete foundation. Although this is the main method of connecting to ballast, there is an alternative whereby a concrete mixture is poured around the support feet to create a secure hold.



Park Tegra Single Structure

Sometimes a system is required to sit lower to the ground and reduce its overall height, whether this is because of aesthetic or planning permission reasons. So we've taken some elements from our other systems to create an elevated frame suitable for holding a single module. This allows us to easily adjust the height and angle of the modules.

CORRUGATED PROFILE ON ROOF SYSTEMS



Corrugated Console

The console is designed to sit over the top of the waves created by the corrugated profile. It fixes through the top of the sheet and down into the substructure below. It doesn't matter if the substructure is made from steel, timber or concrete, as we'll supply suitable screw types and lengths for your project.



Hanger Bolt

With a wide range of different sizes available in stock, it doesn't matter if your project involves timber or steel substructures, we can help you find the best fit for your project.



Elevation Fixed

Quite often the solar modules need to be angled steeper than the existing roof can allow, whether this is for a better yield generation or to meet with planning requirements.

Since we manufacture all the elevation frames in the UK, we can tailor them to any height or angle specification you require.



Concrete Purlin Bracket

An alternative solution for problematic purlins, particularly concrete ones, is our bracket that securely clamps around the purlin rather than fixing directly into it. The bracket has 2 flat plates, 1 for the top of the purlin and another for the bottom. These plates are held in place using threaded rods, which creates a secure clamp around the purlin.

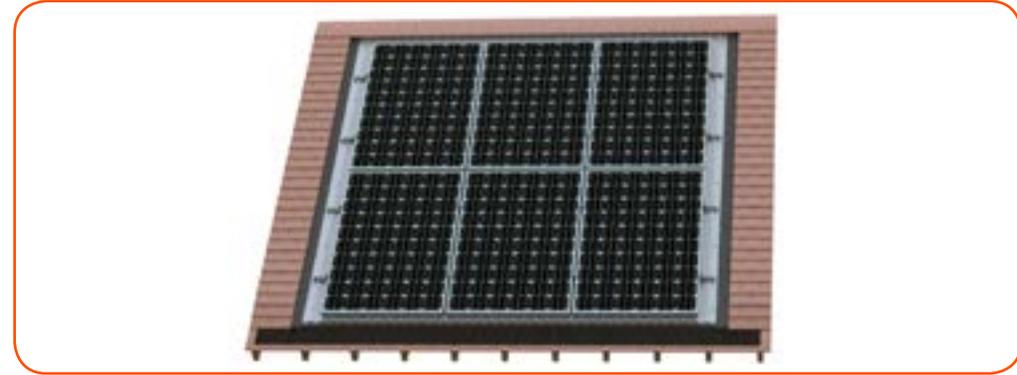
ROOFING TILES ON ROOF SYSTEMS



Roof Hook

It's specifically designed for UK roofing tiles and rafter widths.

Since there are a vast number of different types of roofing tiles with different properties, we've designed just one roof hook that works and fits for all of them. The height adjustability in the arm of the hook, the ability to shift the arm left, right or centre and the smaller fixing holes in the base plate, all help to ease domestic installations with the use of just one type of roof hook.



In Roof

Our integrated roof system has a metal backing sheet, which is not only fire resistant but also doesn't melt in high temperatures unlike similar plastic counterparts available on the market.

We use an aluminium base flashing around the entire system, making sure that it's completely weatherproof and UV resistant, so that it doesn't crumble with exposure to the sunlight.



Roof Hook Slate Set

Roofing tile replacement solution.

We've developed an alternative solution for roofing tiles that effectively replaces the tile with a flashing that sits over the fixing point.

The most popular tile is slate because of its fragile nature, which is where this system got its name, but it can be easily used with any other roofing tile.

STANDING SEAM PROFILE

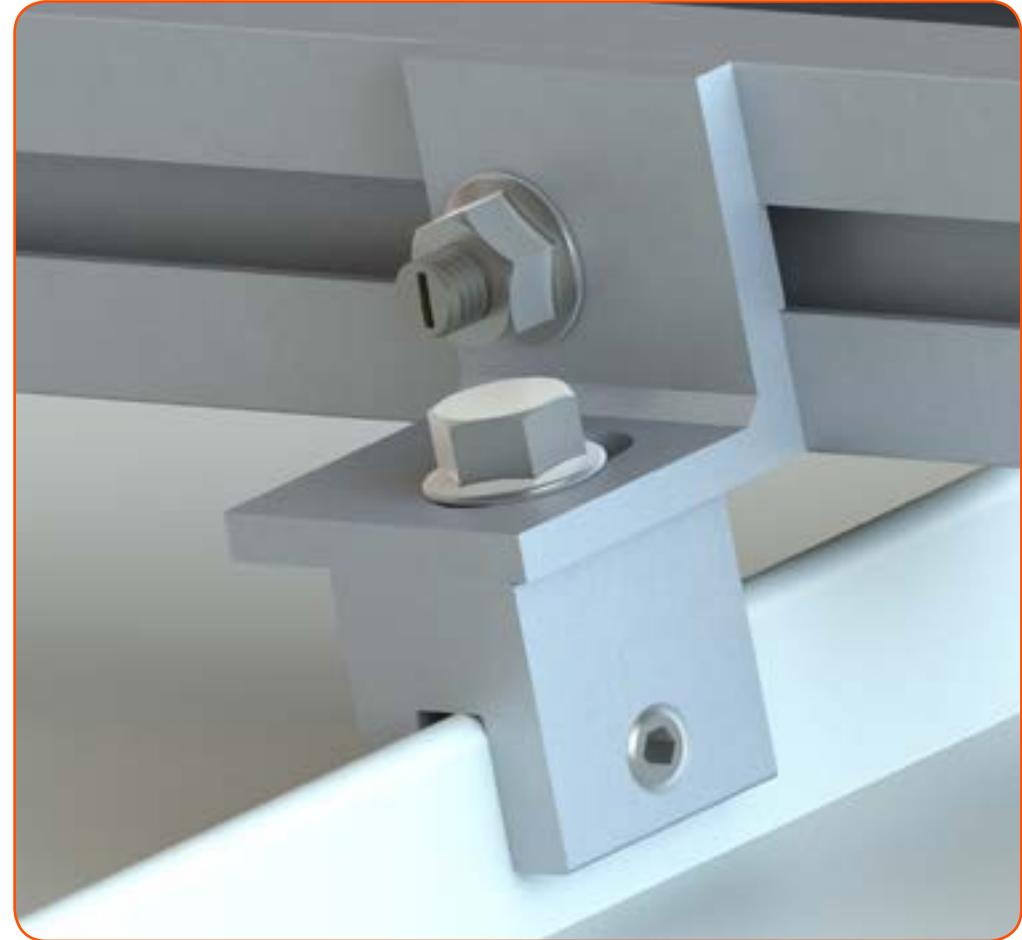
ON ROOF SYSTEMS



Standing Seam Round

Each standing seam clamp can achieve a minimum of 1.8kN uplift resistance, which means that fewer clamps are needed overall within your project compared to similar clamps on the market.

Like the name suggests, this system clamps around the seam. The bolt which tightens the clamp into position is located above the actual seam, so it provides a secure connection without piercing it.



Standing Seam Flat

We've designed our standing seam clamp to be installed quickly but still offer a strong and secure connection to the roof profile.

We use our mounting rails to help strengthen the system and allow the weight of the modules to be distributed across a larger roof surface, so it doesn't damage the existing roof.

CARPORT

SOLAR FOR CAR PARKING SPACES



Because it shouldn't mean sacrificing space for solar.

Since car park spacing is widely available in the UK, our carport structures are the ideal addition to generate energy for either electric cars or to be used for nearby businesses.



We understand the value of these spaces and so it's important to us that they retain their original function. It's why we design and calculate each project on an individual basis to make sure that all the spaces are still useable while maximising their solar capacity.



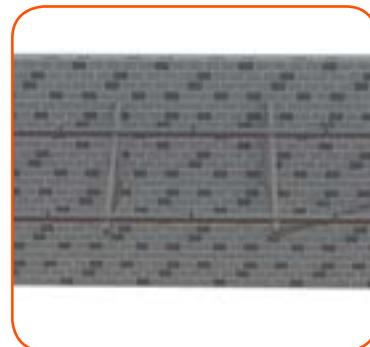
FACADE

WALL MOUNTED SYSTEMS



In addition to utilising roof spaces, there is a growing popularity in applying solar PV to building façades.

It's easy and efficient to create a wall mounted system, either by fixing the modules flush to the wall or introducing an additional pitch via an elevated frame, which can be produced to any required specifications.

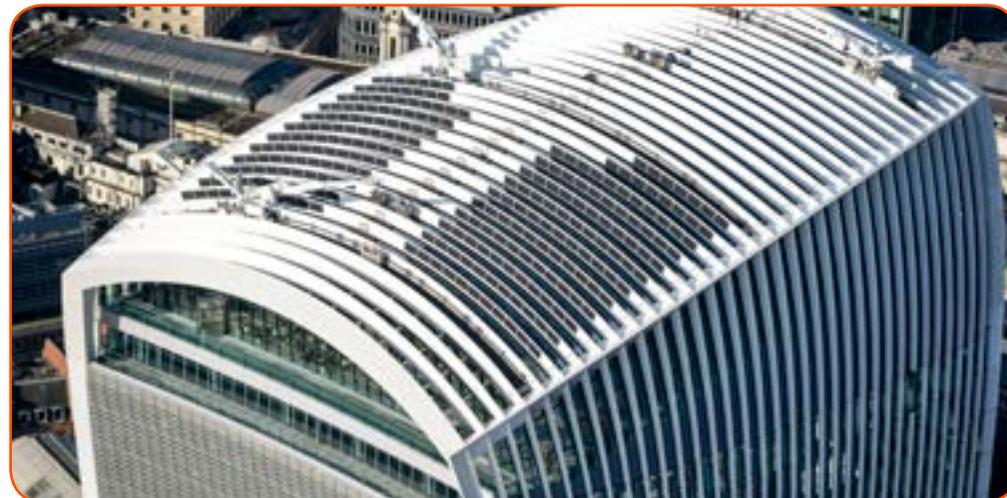


Something a little more special.

Alternatively we can offer bespoke designs that can enable entire façades to generate electricity by replacing standard glazing with specialist glass modules.



BESPOKE
INNOVATIVE DESIGN



Fenchurch Street

2014 saw the installation of 250 modules on top of London's newest skyscrapers, 20 Fenchurch Street, otherwise known as 'The Walkie Talkie Building'. We engaged with Evo Energy during 2013 to develop suitable engineering solutions to fix each 200wp module to the curved steel fins of the building's roof situated 38 storeys up, making it one of the highest solar installations completed in the UK.

This completely bespoke mounting system uses our Mounting Rail Direct profile as a base connection point, which fixes to the steel fins with specially specified screws. The client requested that no module clamps were to be visible, so our solution utilised the mounting holes on the rear of the module frame, creating an elegant 50kWp solar array.

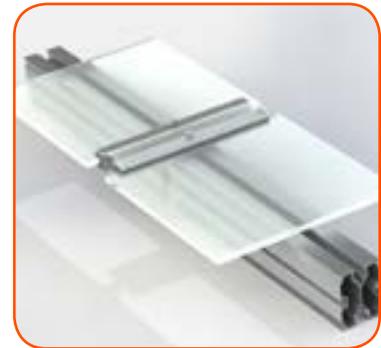
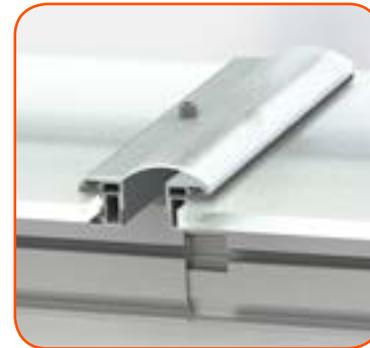
BESPOKE

INNOVATIVE DESIGN



Battersea Dog's Home

We designed and manufactured bespoke module clamps especially for the glass modules. These clamps run the full width of the module and connect to the steel framework.



BESPOKE

INNOVATIVE DESIGN

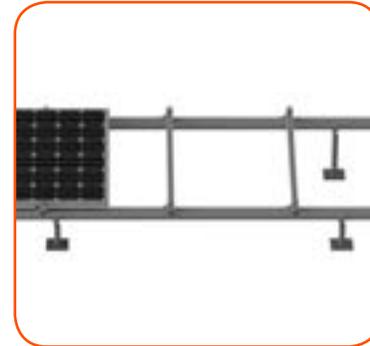


South Bank Tower

We developed a bespoke “up-stand” solution that would not only create the 10° module angle, but also keep the modules as low to the roof surface as possible. Produced from grade A2 stainless steel, the upstand is designed to fix into the structural concrete deck using 4 anchor rods with the remaining layers of the roof built up around them.



The 10° module tilt was created by producing the front upstand slightly taller than the front one, together with a correctly aligned angle manufactured into each upstand.



To add stability to this, a second layer of mounting rail is used across the first layer, which then allows clamping of the modules on their long edge.



SUNFIXINGS

CONNECTING TO THE FUTURE

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