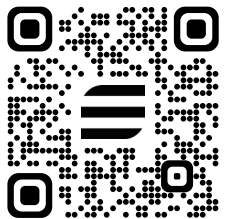




SOLARPORT



S O L A R M O U N T I N G S Y S T E M S



WELCOME

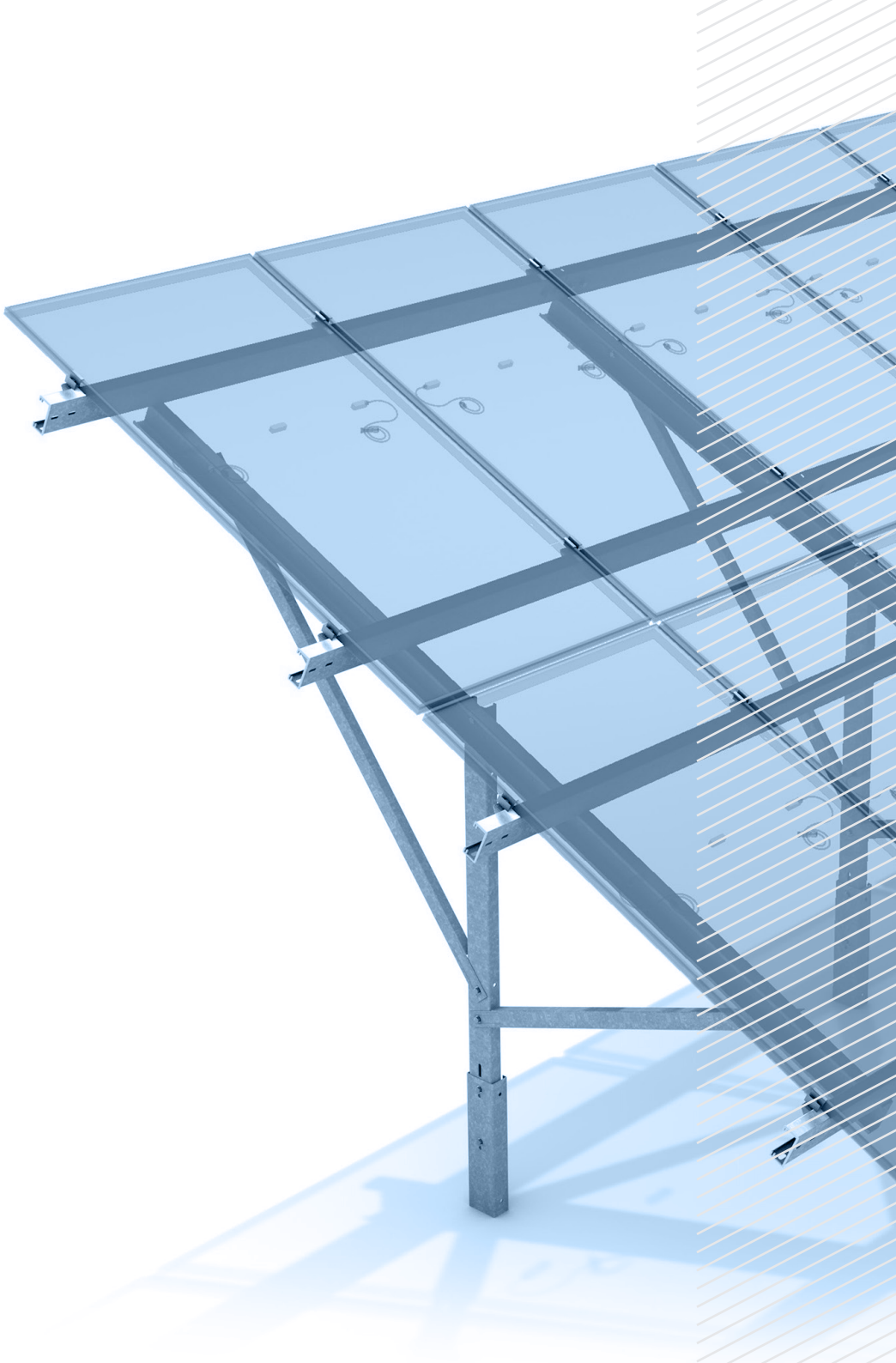
Solarport is leading the way in engineering a sustainable future, catering to utility, commercial, and domestic-scale energy generation.

With a wealth of expertise in both engineering and solar energy, we specialise in next-generation solar mounting systems, tailored for every application.

Designed and manufactured in the UK, our innovative solutions are actively shaping the renewable energy landscape.

Become a part of our journey towards a more sustainable future, adaptable to all scales and sectors.





BRIDGING SUPPLY AND DEMAND FOR A SUSTAINABLE FUTURE

Solarport is a place where engineering ingenuity meets renewable initiative. If you're here, you already believe that the future of clean energy is within reach, thanks to expert engineering and design.

One of the main roadblocks to the global dissemination of solar power is fundamentally an engineering challenge, intricately linked to the supply chain. Recognising this, we've harnessed our extensive experience in both the solar industry and advanced engineering to create solutions that dismantle these barriers.

Our mission is simple: to make renewable energy systems that are not only cost-effective but also easy to install and operate. It's a mission that begins and ends with engineering excellence.

Our global initiatives are focused on implementing robust systems and establishing state-of-the-art facilities. This serves to support the renewable energy revolution while fortifying the supply chain that developers and installers rely on.

It's our comprehensive understanding of engineering principles and solar technology that sets us apart. With a rich heritage in design and engineering expertise, we're engineering forward-thinking solutions that will benefit the renewable energy sector for generations to come.

We are more than suppliers; we are engineers and designers who solve real-world problems, making the renewable energy landscape as efficient and reliable as possible.

DAVE TATTERSHALL

Founder and Chairman



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ABOUT SOLARPORT

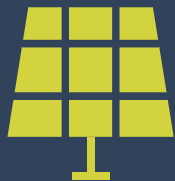
Founded in 2015 by a team of engineers, solar installers, and construction professionals, Solarport has rapidly become the UK's leading solar mounting systems supplier.

With a collective experience spanning decades, our in-depth expertise in engineering, manufacturing, and the solar industry uniquely positions us to deliver unrivalled mounting solutions.



Utility-Scale

We work with EPCs, designing and manufacturing custom solar ground mount systems that meet the specific needs of utility-scale projects. From innovative, time-saving products to flexibly programmed deliveries, we have an outstanding record of meeting and exceeding expectations on even the largest and most demanding projects.



Commercial & Domestic

We proudly embrace projects of all sizes. Our innovative systems are designed to cater to varying scales, ensuring no site is too small for our solar energy solutions. The Modular system makes commercial and domestic-scale site planning, ordering and installation easy with standardised parts that are held in stock.



Foundations

No matter what the ground conditions and constraints on your site, Solarport offers cost-effective and easily assembled solar ground mounts, with foundations that are a perfect fit for every location.



WHY CHOOSE SOLARPORT?

Gigawatts supplied across the UK & Europe | Superior quality structural steel S350 - S450, ZM310 - ZM800 |
All systems fully structurally calculated | **2 GW+ of manufacturing capacity per year**



Designed and manufactured by our in-house team of experts in engineering, design, and solar construction, our products guarantee rapid deployment and unparalleled reliability.

Enhanced by our high-volume manufacturing facilities and robust steel supply, we are equipped to process projects of any size, ensuring timely and efficient delivery.

Our ISO 9001 accredited design and manufacturing processes contribute to quick turnarounds, cost-effectiveness, and excellent customer support. We offer inventive solutions backed by extensive expertise, making us capable of tackling even the most challenging site conditions, anywhere in the world.

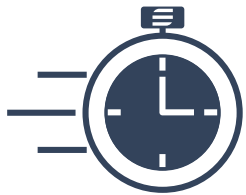
Rigorous quality assurance is applied to all our products, and we are committed to delivering a first-class service.



Our in-house specialists are at your service, offering **full-scale support throughout each stage of your solar installation.**

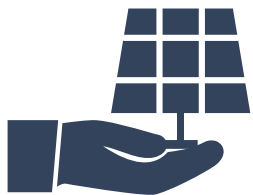
We aim to provide you with pragmatic advice and **mounting systems that are time-efficient and cost-effective.**

We offer **warranties on all of our systems of up to 40 years**, ensuring that your site is safeguarded for the future.



Your problems solved quickly

Our expert team is readily available to address your questions and provide ongoing support throughout the duration of your project.



Installation training

If you are new to our systems, there is no need to worry. We provide comprehensive and easy to follow installation guides. In addition to this, we also hold installation workshops at our manufacturing headquarters that can be booked, when required.



Solutions for all ground conditions

The modular nature of our systems allows installers to seamlessly integrate numerous foundation options to suit virtually all terrains – including slopes up to 45 degrees.

Solarport's dedication to ensuring that no site is off limits means that we have spent years researching and designing foundation solutions to make each site easy to install.



OUR PROCESS



Site Analysis

Our detailed design process begins with an in-depth technical analysis of geotechnical, topographical and foundation investigation results.



Design

Utilising cutting-edge technology, our engineers meticulously model every system to achieve unparalleled efficiency, perfectly calibrated to the site-specific project requirements and environmental conditions.



Manufacture

Managed by our team of in-house experts, our state-of-the-art, UK-based manufacturing plants boast an annual framework production capacity in excess of 2 GW for solar PV.



Delivery

Our depots are strategically positioned to facilitate seamless, reliable distribution and we are committed to transparency; guaranteeing reliable deliveries with no hidden charges or delays.



Site Support

Our straightforward installation guides are supplied with every system, but if further assistance is required, our site team can call or visit the site to ensure that a solution is always available.



Sign-off

Our specialist team, that are trained to know every aspect of each of our systems, can be deployed to site upon request, to inspect and validate installations.

From initial contact, through to final site sign off, we are with our customers the entire way.

Our expert team specialises in solar mounting system design and installation and is readily available to pinpoint the most efficient and cost-effective solution tailored to your needs.

Our commitment doesn't end with delivery; it's just the beginning.

Our team of solar installation specialists are on hand to offer comprehensive support through each stage of the installation process, up to and including final sign-off and warranty issuance.



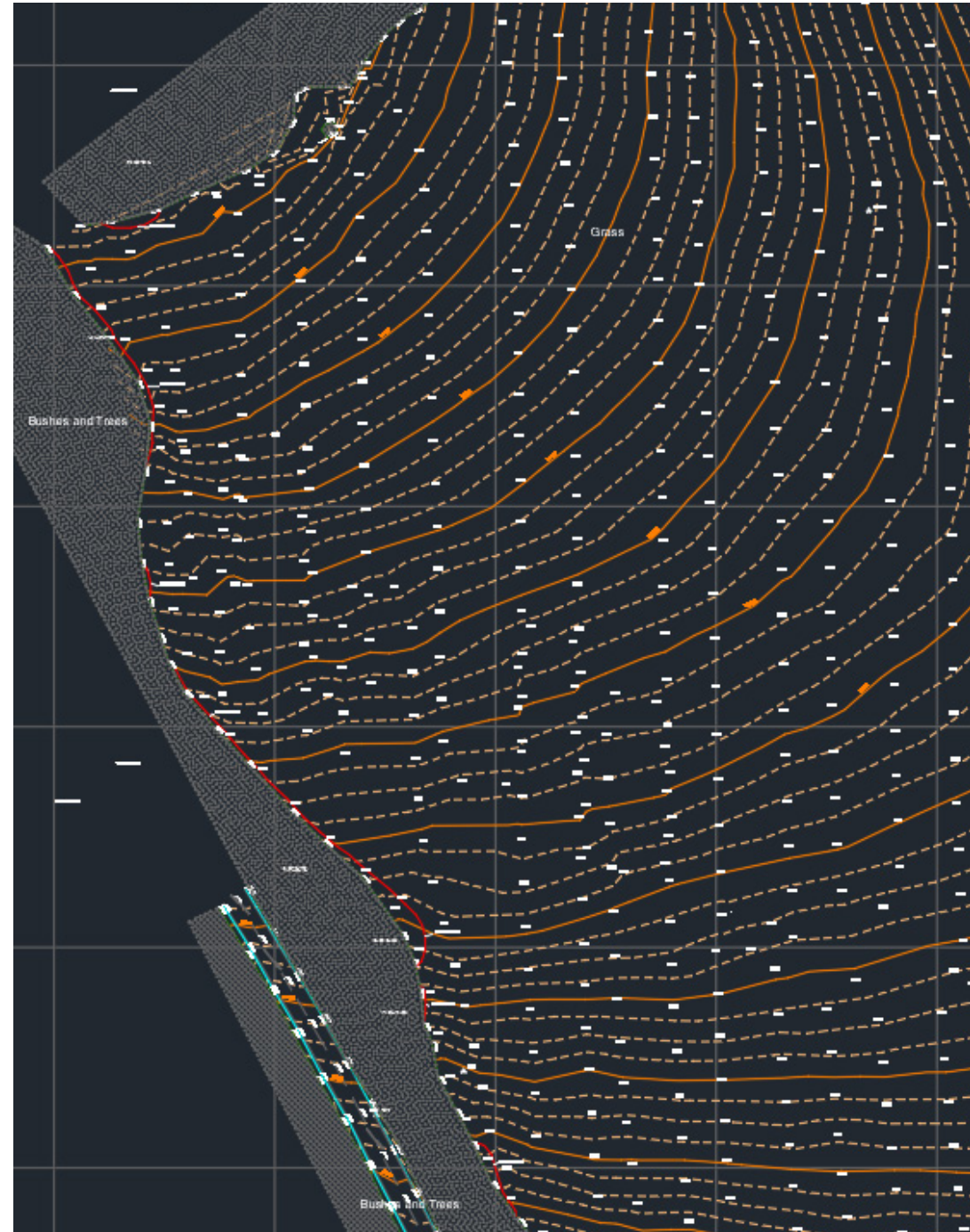
SITE ANALYSIS

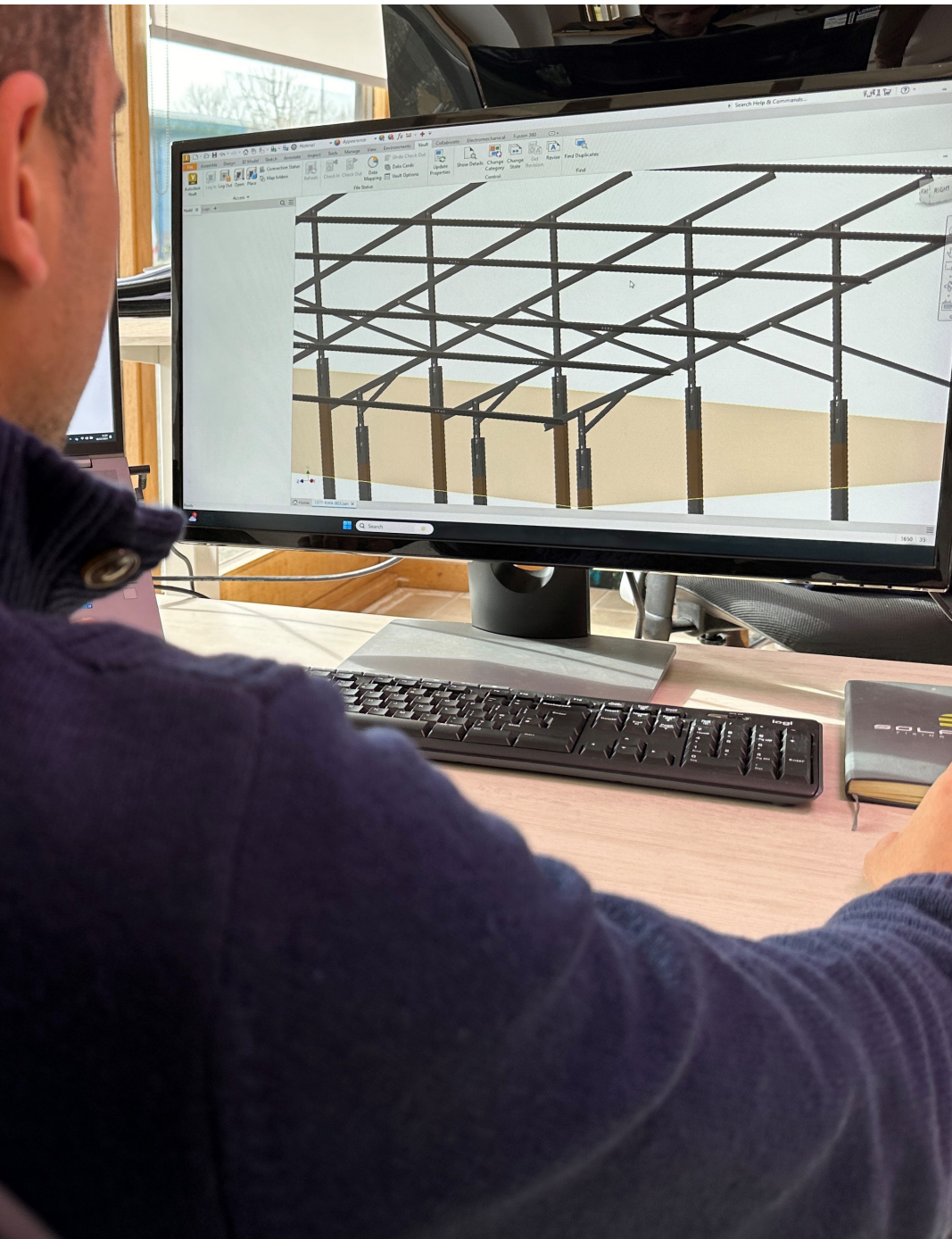
Our mounting systems unmatched reliability starts with comprehensive analysis of site data.

Our detailed design process begins with an in-depth technical analysis of geotechnical, topographical and foundation investigation results.

In evaluating this critical, site-specific field data, we determine the foundation, structural design and corrosion protection that the site requires. This ensures that every customer receives a robust long-lasting and guaranteed mounting system.

This level of care and attention at the early stages of a mounting system design allows Solarport to save our customers money over the lifetime of their site.





DESIGN

Engineered for precision, designed for ease: your tailored solar solutions with up to 40-year warranties.

Utilising cutting-edge technology, our engineers meticulously model every system to achieve unparalleled efficiency, perfectly calibrated to the site-specific project requirements and environmental conditions.

Designed with practicality in mind, our systems prioritise ease of installation. They feature exceptional adjustability, one fixing size throughout and include innovative solutions that substantially mitigate the need for working at height.

As an ISO 9001-accredited organisation and members of the British Standards Institute, we stand by the integrity of our work. To further bolster confidence in our systems, we offer warranties that can extend up to 40 years.

MANUFACTURE

Creating localised facilities for manufacturing means that we can be faster, greener and more cost-effective.

Managed by our team of in-house experts, our state-of-the-art, UK-based manufacturing plants boast an annual framework production capacity in excess of 2 GW for solar PV.

This significant capacity, supported by our vast stock of various structural steel, enables us to meet the demands of even the largest utility-scale sites without compromising on quality or efficiency - ensuring stringent control from inception to completion.

Our depots are strategically positioned to facilitate seamless, reliable distribution and we are committed to transparency; guaranteeing reliable deliveries with no hidden charges or delays.





SITE SUPPORT

Decades of installation and site management experience.

Solarport is founded on a wealth of experience installing and managing solar farms.

When it comes to installation and product support, our knowledge and problem solving abilities are unmatched within the industry.

We meticulously plan and design our systems to suit each project, but with large-scale installation, some advice may be required during a build. That's why, when it is needed, we are always available to help.

Our straightforward installation guides are supplied with every system, but if further assistance is required, our site team can call or visit the site to ensure that a solution is always available.



FINAL SIGN-OFF

Our customer's peace of mind is our priority. If required, we are able to supply an official Solarport sign off on utility-scale installations.

We know that each site is unique, with it's own set of complexities and we also understand the importance of peace of mind when it comes to large-scale installation.

Because of this, we offer an official sign off service if required.

Our specialist team, that are trained to know every aspect of each of our systems, can be deployed to site upon request, to inspect and validate installations.

This sign off process isn't mandatory, but helps to provide extra security for the system warranty.

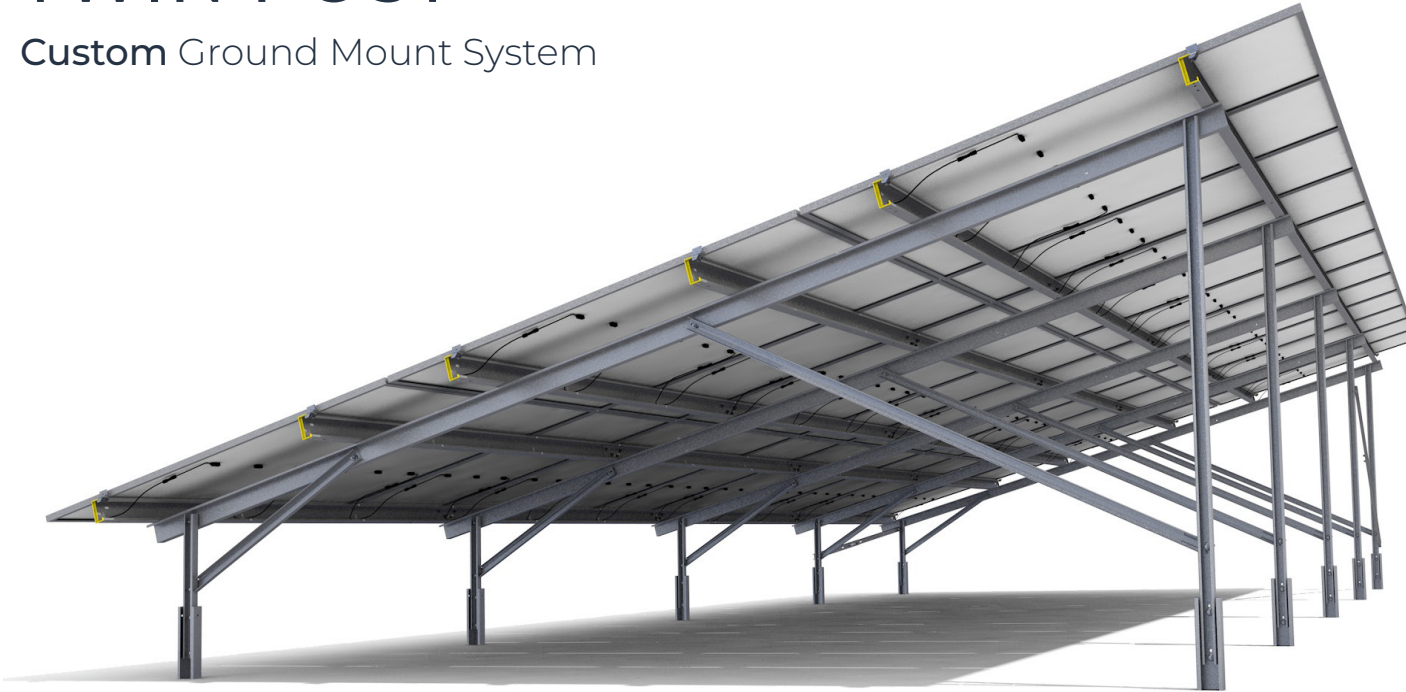






TWIN POST

Custom Ground Mount System



Our twin post system stands as the preferred choice for utility-scale installations, renowned for its customisable design, robust strength, and versatile adaptability.

Capable of accommodating various array orientations - from 2 or 3 modules in portrait to 6 in landscape.

Typically deployed in environments where ground conditions and wind speeds would compromise the effectiveness of single-post systems, the twin post design offers superior stability and resilience.

To streamline the installation process, all of our ground-mount systems, including the twin post, utilise a uniform fixing size throughout the framework. This not only simplifies assembly but also eliminates potential on-site complications for installers.



Portrait and landscape
module mounting



Range of angles
available



Large array sizes



Utilise all of our
foundation options

TECHNICAL DATA

Panel configurations:	2 in portrait, 3 in portrait, 4 in landscape, 5 in landscape (bespoke systems available on request)
Panel clamping:	Standard Clamping: Modules fitted using aluminium top hat and end clamps, with sliding clamps to give mounting positions. Clamps optimised for ease of installation with above and below module fastening. Sliding Rail Clamping: Modules fitted onto vertical rails using ARaymond PowAR® Cinch clamps. Fastened from under the module without power tools and an entirely screwless design for rapid installation.
System angles:	10° - 30° - angle will alter system minimum and maximum heights. (All south facing, unless requested by customer. East-West system also available)
Rail configurations:	2 in portrait, 4 purlins per bay. 3 in portrait, 6 purlins per bay. 4 in landscape, 5 purlins per bay. 5 in landscape, 6 purlins per bay
Upright configurations:	Twin post system
Linear upright dimensions from ground:	(Dependent on system angle) Minimum: 1.8m. Maximum: 3.5m. All dimensions are without panels mounted. (Bespoke heights available on request)
Ground clearance dimensions to rafter:	Standard height is 600mm. 800mm minimum recommended for grazing sheep. All dimensions are without panels mounted. (Custom heights available on request)
Foundation:	Piled, Ballasted, X Anchor, Ground Anchor, Direct Fix, Ground Screw
Frame material specification:	S450 grade steel. Coatings: ZM310, ZM430, ZM620, ZM800. Corrosion protection to be determined from site location and ground investigations
Wind speed and altitude:	Designed in accordance with BS EN 1991-1-4:2005 +A1:2010
Design codes:	BS EN 1090 & BS EN 1991 Parts 1, 3 & 7 (Eurocodes)





SINGLE POST

Custom Ground Mount System



Our single post utility-scale ground mounted system is a brilliant solution for sites with arrays of a maximum of 4 modules in landscape or two in portrait.

If the site specific conditions and requirements permit a single post solution, our customers can benefit from using less material across their sites. Although solely compatible with piled foundations, the single post system is extremely versatile and suitable for utility-scale projects.

As with all of our ground mount systems, the framework only uses one fixing size throughout, saving installers issues on site.



Portrait and landscape
module mounting



Range of angles
available



Suitable for ground
undulations



Compatible with Piled
and Direct Fix foundations

TECHNICAL DATA

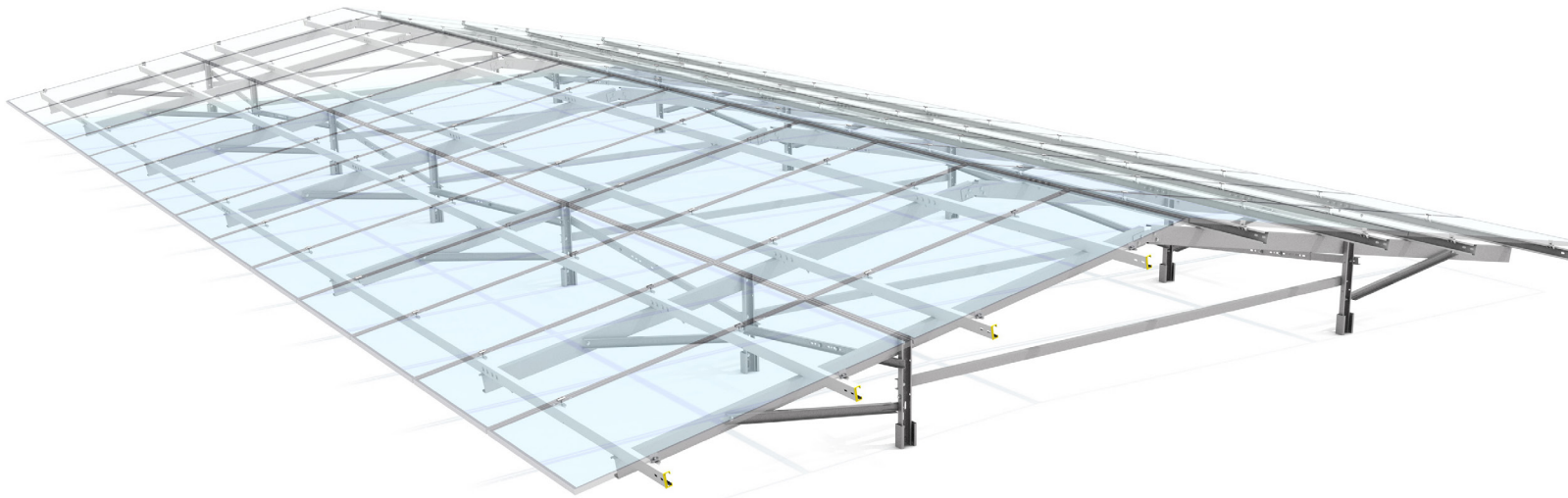
Panel configurations:	2 in portrait or 4 in landscape
Panel clamping:	Standard Clamping: Modules fitted using aluminium top hat and end clamps, with sliding clamps to give mounting positions. Clamps optimised for ease of installation with above and below module fastening. Sliding Rail Clamping: Modules fitted onto vertical rails using ARaymond PowAR® Cinch clamps. Fastened from under the module without power tools and an entirely screwless design for rapid installation.
System angles:	10° - 30° - angle will alter system minimum and maximum heights. (all south facing, unless requested by customer. East-West system also available)
Rail configurations:	2 in portrait, 4 purlins per bay. 4 in landscape, 5 purlins per bay
Upright configurations:	Single post system
Linear upright dimensions from ground:	(Dependent on system angle) Minimum: 1.8m. Maximum: 3.5m. All dimensions are without panels mounted. (Bespoke heights available on request)
Ground clearance dimensions to rafter:	Standard height is 600mm. 800mm minimum recommended for grazing sheep. All dimensions are without panels mounted. (Bespoke heights available on request)
Foundation:	C Pile, Concreted Pile, Direct Fix
Frame material specification:	S450 grade steel. Coatings: ZM310, ZM430, ZM620, ZM800. Corrosion protection to be determined from site location and ground investigations
Wind speed and altitude:	Designed in accordance with BS EN 1991-1-4:2005 +A1:2010
Design codes:	BS EN 1090 & BS EN 1991 Parts 1, 3 & 7 (Eurocodes)





EAST-WEST

Custom Ground Mount System



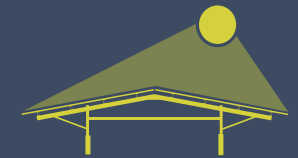
Our East-West system, designed for utility-scale installations, shares our other esteemed system's customisable design, robust strength, and versatile adaptability but with unique advantages for different site orientations and solar exposure.

This system maximises land use by orienting panels eastward and westward, ensuring consistent solar energy generation throughout the day.

Accommodating any module size and configuration, the East-West system also features uniform fixing sizes, streamlining the installation process.



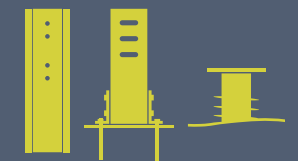
Portrait and landscape
module mounting



Captures sunlight from
a broad range of angles



Large array sizes



Compatible with Driven Pile,
Direct Fix and Screw Pile
foundations

TECHNICAL DATA

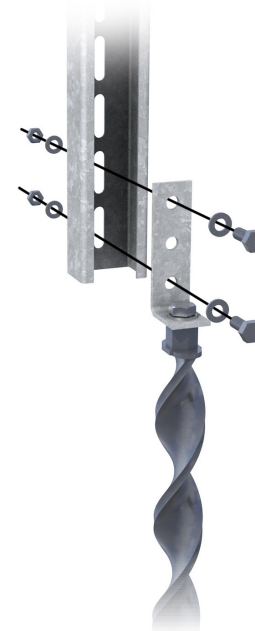
Panel configurations:	2 in portrait, 3 in portrait, 4 in landscape, 5 in landscape (bespoke systems available on request)
Panel clamping:	Modules fitted using aluminium top hat and end clamps, with sliding clamps to give mounting positions. Clamps optimised for ease of installation with above and below module fastening.
System angles:	10° - 15°. (Bespoke angles available on request)
Rail configurations:	2 in portrait, 4 purlins per bay. 3 in portrait, 6 purlins per bay. 4 in landscape, 5 purlins per bay. 5 in landscape, 6 purlins per bay
Upright configurations:	Twin post system
Linear upright dimensions from ground:	Minimum: 1400mm for 2-in-portrait 10° system. No maximum due to bespoke heights. All dimensions are without panels mounted. (Bespoke heights available on request)
Ground clearance dimensions to rafter:	Standard height is 600mm. 800mm minimum recommended for grazing sheep. All dimensions are without panels mounted. (Custom heights available on request)
Foundation:	Piled, Direct Fix, Ground Screw
Frame material specification:	S450 grade steel. Coatings: ZM310, ZM430, ZM620, ZM800. Corrosion protection to be determined from site location and ground investigations
Wind speed and altitude:	Designed in accordance with BS EN 1991-1-4:2005 +A1:2010
Design codes:	BS EN 1090 & BS EN 1991 Parts 1, 3 & 7 (Eurocodes)





FOUNDATIONS

For **Custom** Ground Mount Systems



Whatever the terrain or ground conditions, our range of foundation options have been designed to work on even the most challenging of sites.

Our aim is to make sure that, when using a Solarport system, there is no site that's off limits.

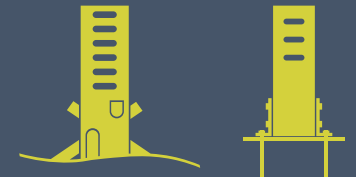
We will work with you to ensure the correct foundations are paired to your system and site location, maximising site viability and yield.



Driven Pile



Ballasted



Anchors

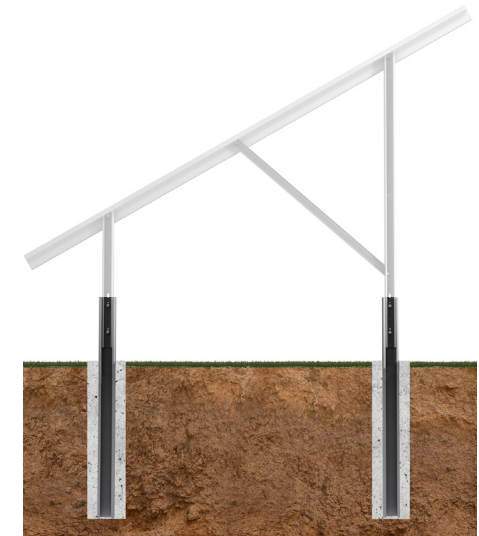
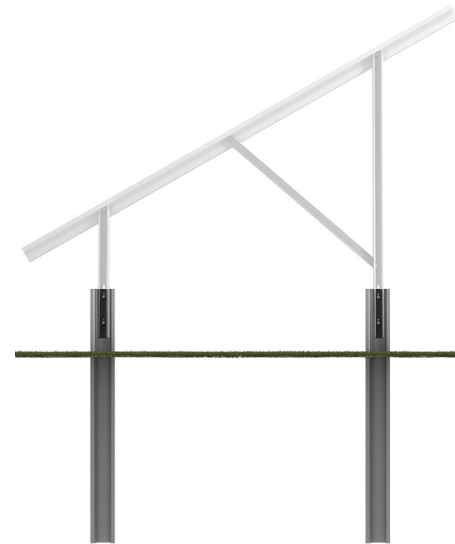
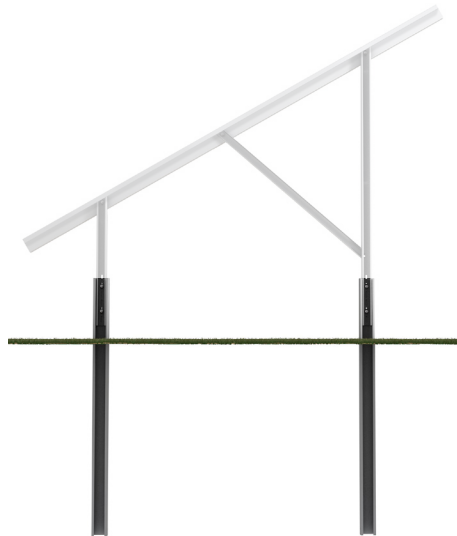


Screw Pile



TECHNICAL DATA

For Foundation Types



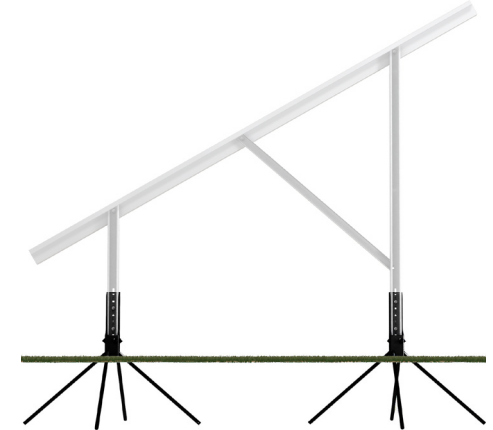
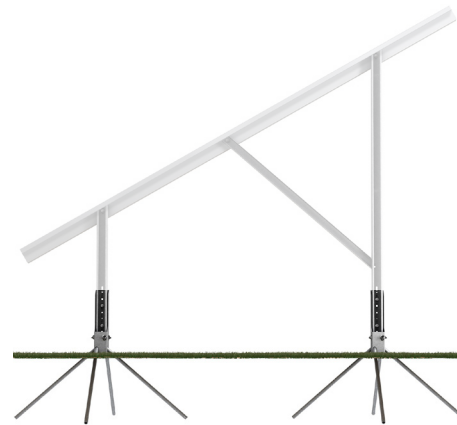
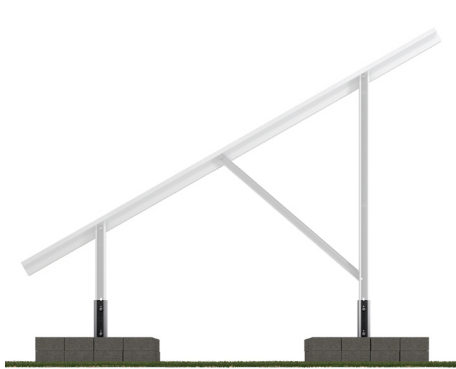
Name:	C Pile
Applicable with:	Single post & twin post systems
Suitable for:	Sites where breaking ground is possible and geotechnical results permit use. Performs well in softer ground conditions
Installation:	Piling rig
Material:	S450 grade steel. Coatings: ZM310, ZM430, ZM620, ZM800. Corrosion protection to be determined from site location and ground investigations
Dimensions:	Determined by geotechnical and wind load test results
Design codes:	Designed in accordance with BS EN 1991-1-4:2005 +A1:2010. BS EN 1090 & BS EN 1991 Parts 1, 3 & 7 (Eurocodes)

V Pile
Twin post systems
Sites where breaking ground is possible and geotechnical results permit use. Performs well in rocky and/or hard ground conditions
Piling rig
S450 grade steel. Coatings: ZM310, ZM430, ZM620, ZM800. Corrosion protection to be determined from site location and ground investigations
Determined by geotechnical and wind load test results
Designed in accordance with BS EN 1991-1-4:2005 +A1:2010. BS EN 1090 & BS EN 1991 Parts 1, 3 & 7 (Eurocodes)

Concreted Pile
Twin post & single post systems
Sites where breaking ground is possible and a shorter pile is required and/or machinery is available
Augered hole and pile set with Postcrete
S450 grade steel. Coatings: ZM310, ZM430, ZM620, ZM800. Corrosion protection to be determined from site location and ground investigations
Pile dimensions, augered hole dimensions and amount of Postcrete determined by geotechnical and wind load test results
Designed in accordance with BS EN 1991-1-4:2005 +A1:2010. BS EN 1090 & BS EN 1991 Parts 1, 3 & 7 (Eurocodes)

TECHNICAL DATA

For Foundation Types



Name:	Ballasted
Applicable with:	Twin post systems
Suitable for:	Sites where breaking ground is not permitted (archaeological or geotechnical)
Installation:	Steel plates weighted with high density concrete blocks. Block weights determined by geotechnical and wind load testing
Material:	S450 grade steel. Coatings: ZM310, ZM430, ZM620, ZM800. Corrosion protection to be determined from site location and ground investigations
Dimensions:	Plate size: 960mm x 900mm
Design codes:	Designed in accordance with BS EN 1991-1-4:2005 +A1:2010. BS EN 1090 & BS EN 1991 Parts 1, 3 & 7 (Eurocodes)

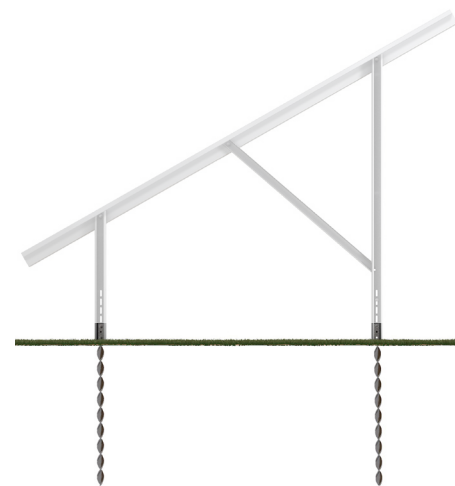
X Anchor (Patent Number: GB2607092)
Twin post systems
Sites that require shallow embedment and/or no heavy machinery
Steel rods driven with hand tools
Hot rolled steel (S355JR) hot dipped galvanised to ISO 1461. S350 galvanised steel (ZM310). Corrosion protection to be determined from site location and ground investigations
Rod length determined by geotechnical and wind load test results
Designed in accordance with BS EN 1991-1-4:2005 +A1:2010. BS EN 1090 & BS EN 1991 Parts 1, 3 & 7 (Eurocodes)

High Corrosion X Anchor (GB2607092)
Twin post systems
Highly corrosive sites that require shallow embedment and/or no heavy machinery, such as former landfill
Steel rods driven with hand tools
Hot rolled steel (S355JR) hot dipped galvanised to ISO 1461. S350 galvanised steel (ZM310). Steel coated with unique finish that offers extreme corrosion resistance
Rod length determined by geotechnical and wind load test results
Designed in accordance with BS EN 1991-1-4:2005 +A1:2010. BS EN 1090 & BS EN 1991 Parts 1, 3 & 7 (Eurocodes)



TECHNICAL DATA

For Foundation Types

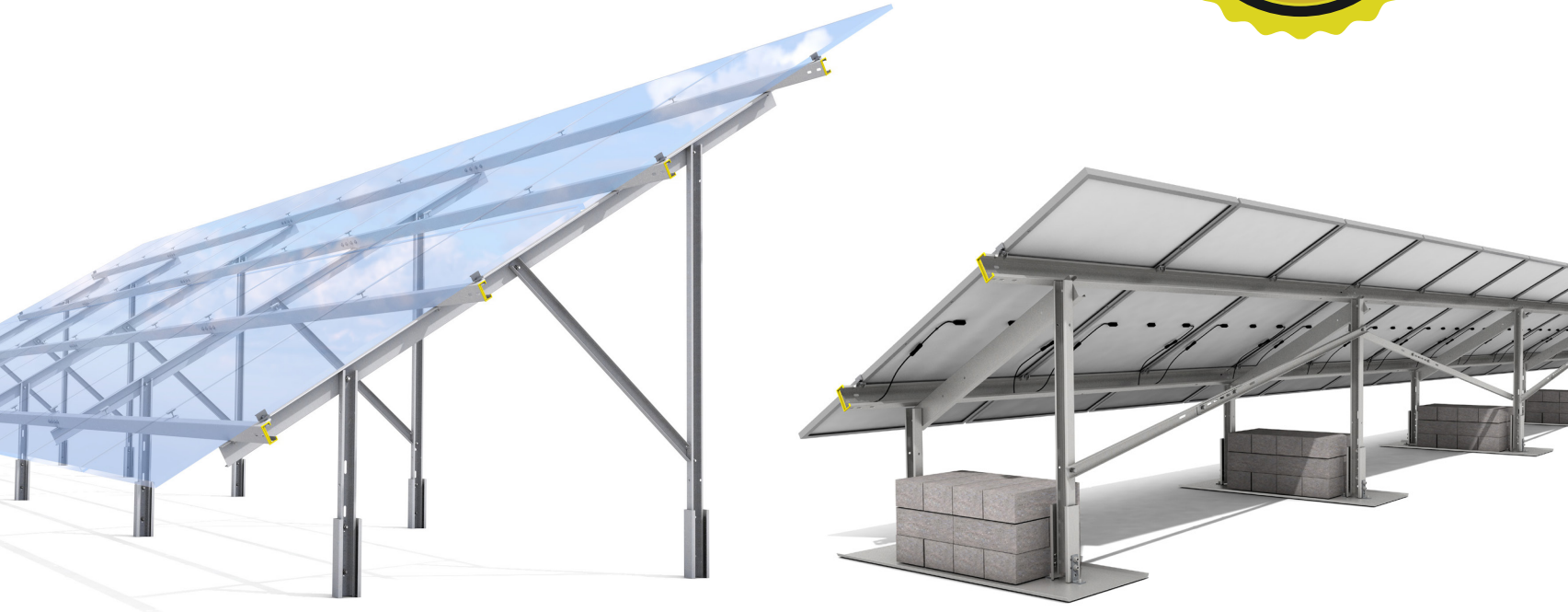


Name:	Direct Fix	Ground Anchor	Screw Pile
Applicable with:	Twin post systems	Twin post system	Twin post systems
Suitable for:	Non-cracked concrete foundations ranging between C20/25 & C50/60	Sites that require shallow embedment and/or no heavy machinery	Sites where breaking ground is possible and geotechnical results permit use.
Installation:	Torque controlled expansion bolts fitted into concrete with hand tools	Steel screws driven in with hand tools	By hand and/or with machinery
Material:	Adjustable upright: S450 grade steel. Coatings: ZM310, ZM430, ZM620, ZM800. Corrosion protection to be determined from site location. Bolts: High tensile steel hot dipped galvanised to EN 1461	Sherardised steel	S235 Grade Steel (Pipe) S355 Grade Steel (Flange) Hot dip galvanised to DIN EN ISO 1461
Dimensions:	M12 x 145mm torque controlled expansion bolts	50mm x 1050mm	Pipe - 76mm x 3mm x 1250mm Flange – 200mm x 8mm
Design codes:	Designed in accordance with BS EN 1991-1-4:2005 +A1:2010. BS EN 1090 & BS EN 1991 Parts 1, 3 & 7 (Eurocodes)	Enquire for details	Enquire for details



MODULAR

Standardised systems held in stock



The Modular system is ingeniously engineered for commercial and domestic sites, with the flexibility to accommodate any of our foundation options. Site planning, design, and deployment are streamlined for ultimate convenience.

Benefit from an elegant design that minimises component variations, featuring universal parts for easy expandability. The Modular framework employs a single fixing size throughout, eliminating on-site complications and accelerating the installation process.

Strategically designed to be compatible with 80% of the UK's landmass and versatile enough to accommodate the majority of panel sizes in the market, the Modular system simplifies planning and offers peace of mind for those that want Solarport quality, straight off-the-shelf.



Easy site planning



Held in stock



Range of tilt angles



Utilises all of our foundation options

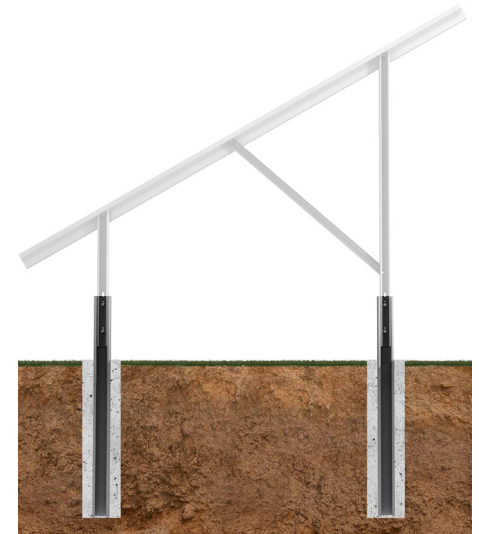
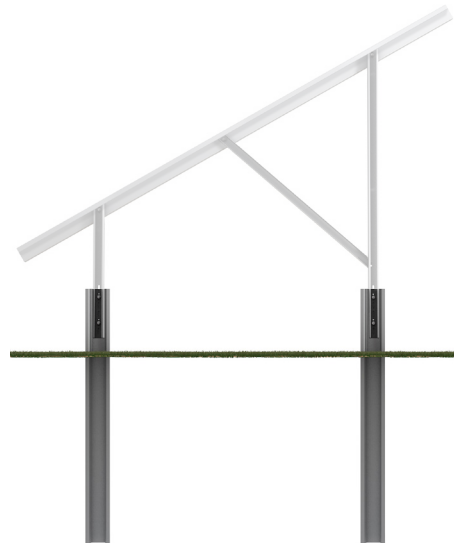
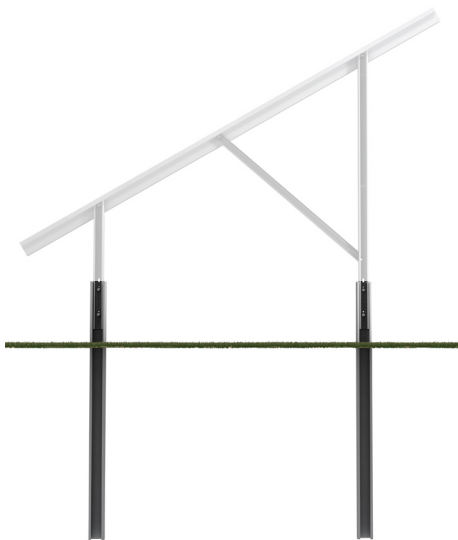
TECHNICAL DATA

For Modular Ground Mount System

Panel configuration:	2-in-portrait & 1-in-portrait		
Panel min and max length:	Minimum length: 1650 mm. Maximum length: 2470 mm		
Purlin configuration:	2-in-portrait: 4 purlins, position determined by panel dimensions and clamping zones 1-in-portrait: 2 purlins, position determined by panel dimensions and clamping zones		
Panel clamping zones:	Please refer to panel manufacturer's specification		
Panel clamp specifications:	Panels fitted using aluminium top hat and end clamps, with sliding clamps to give mounting positions		
System angles:	20°, 25°, 30°		
System min and max heights:	2-in-portrait: 20°: Minimum (clearance): 785mm, Maximum (to top of rafter): 2200mm 25°: Minimum (clearance): 735mm, Maximum (to top of rafter): 2455mm 30°: Minimum (clearance): 680mm, Maximum (to top of rafter): 2694mm 1-in-portrait: 20°: Single post: Min: 831mm, Max: 1419mm. Twin post: Min: 676mm, Max: 1261mm 25°: Single post: Min: 848mm, Max: 1544mm. Twin post: Min: 672mm, Max: 1369mm 30°: Single post: Min: 862mm, Max: 1661mm. Twin post: Min: 664mm, Max: 1460mm		
Bay sizes:	2 panel and 3 panel wide		
Table configuration min and max:	2 panels x 2 panels min. 30 panels x 2 panels max.		
Bay pitches:	2000mm, 2500mm, 3000mm, 3500mm. Each pitch can have 100mm added if Extension Joiner is used		
Foundation types:	C Pile, V Pile, Concreted Pile, Ballasted, X Anchor, Ground Anchor, Direct Fix, Ground Screw		
Material specification:	S450 grade steel. Coating ZM310 or ZM800		
Wind speed:	Fundamental basic UK wind velocity within the UK up to 28m/s		
Snow loads:	0.7 kN/m ² max		
Design codes:	Designed in accordance with BS EN 1991-1-4:2005 + A1:2010.BS EN 1090 & BS EN 1991 Parts 1, 3 & 7 (Eurocodes)		

MODULAR FOUNDATIONS

Technical Data



Name:	C Pile
Applicable with:	Single post & twin post Modular systems
Suitable for:	Sites where breaking ground is possible, geotechnical results permit use and/or machinery is available
Installation:	Piling rig. 2000mm pile, 1500mm embedment
Material:	S450 grade steel. Coating ZM310 or ZM800
Dimensions:	120mm x 70mm x 3mm x 2000mm
Design codes:	Designed in accordance with BS EN 1991-1-4:2005 +A1:2010. BS EN 1090 & BS EN 1991 Parts 1, 3 & 7 (Eurocodes)

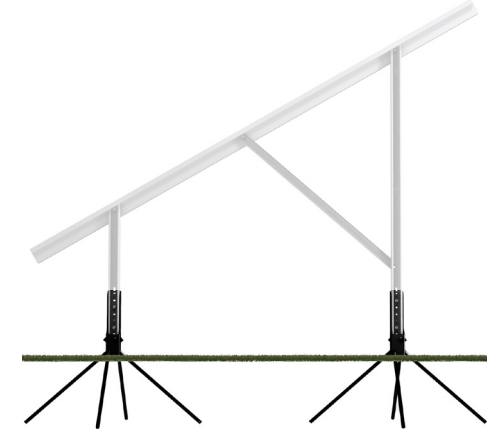
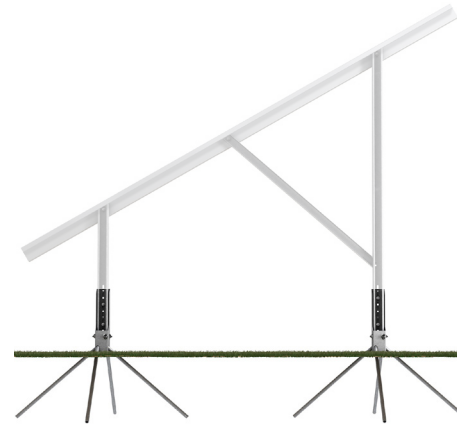
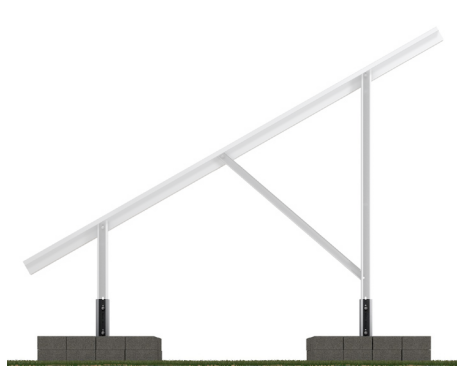
V Pile
Twin post Modular systems
Sites where breaking ground is possible and geotechnical results permit use. Performs well in rocky and/or hard ground conditions
Piling rig. Only issued if test results permit use
S450 grade steel. Coating ZM310 or ZM800
102mm x 44mm x 30mm (length determined by test results)
Designed in accordance with BS EN 1991-1-4:2005 +A1:2010. BS EN 1090 & BS EN 1991 Parts 1, 3 & 7 (Eurocodes)

Concreted Pile
Single post & twin post Modular systems
Sites where breaking ground is possible, geotechnical results permit use and/or machinery is available
1500mm pile, 250mm d x 1000mm deep augered hole, 4 bags of Postcrete per hole
S450 grade steel. Coating ZM310 or ZM800
120mm x 70mm x 3mm x 1500mm
Designed in accordance with BS EN 1991-1-4:2005 +A1:2010. BS EN 1090 & BS EN 1991 Parts 1, 3 & 7 (Eurocodes)



MODULAR FOUNDATIONS

Technical Data



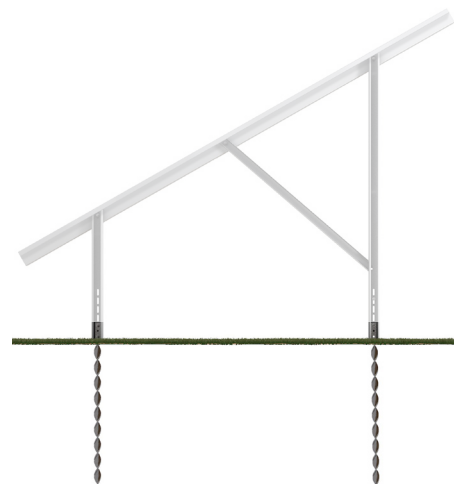
Name:	Ballasted
Applicable with:	Twin post Modular systems
Suitable for:	Sites where breaking ground is not permitted (archaeological or geotechnical)
Installation:	Steel plates weighted with high density concrete blocks
Material:	S450 grade steel. Coating ZM310 or ZM800
Dimensions:	Plate size: 960mm x 900mm
Design codes:	Designed in accordance with BS EN 1991-1-4:2005 +A1:2010. BS EN 1090 & BS EN 1991 Parts 1, 3 & 7 (Eurocodes)

X Anchor (Patent Number: GB2607092)
Twin post Modular systems
Sites that require shallow embedment and/or no heavy machinery
Steel rods driven in with hand tools
Hot rolled steel (S355JR). Hot dipped galvanised to ISO 1461
600mm embedment
Designed in accordance with BS EN 1991-1-4:2005 +A1:2010. BS EN 1090 & BS EN 1991 Parts 1, 3 & 7 (Eurocodes)

High Corrosion X Anchor (GB2607092)
Twin post Modular systems. Note: this is not a stock item. Longer lead times apply
Highly corrosive sites that require shallow embedment and/or no heavy machinery
Steel rods driven in with hand tools
Hot rolled steel (S355JR). Hot dipped galvanised to ISO 1461. Steel coated with unique finish that offers extreme corrosion resistance
600mm embedment
Designed in accordance with BS EN 1991-1-4:2005 +A1:2010. BS EN 1090 & BS EN 1991 Parts 1, 3 & 7 (Eurocodes)

MODULAR FOUNDATIONS

Technical Data

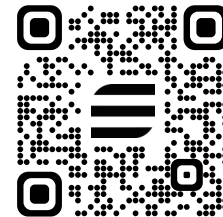


Name:	Direct Fix
Applicable with:	Twin post Modular systems
Suitable for:	Non-cracked concrete foundations ranging between C20/25 & C50/60
Installation:	Torque controlled expansion bolts fitted into concrete with hand tools
Material:	Adjustable upright: S450 grade steel. Coating ZM310 or ZM800. Bolts: High tensile steel hot dipped galvanised to EN 1461
Dimensions:	M12 x 145mm torque controlled expansion bolts
Design codes:	Designed in accordance with BS EN 1991-1-4:2005 +A1:2010. BS EN 1090 & BS EN 1991 Parts 1, 3 & 7 (Eurocodes)

Ground Anchor
Twin post Modular systems
Sites that require shallow embedment and/or no heavy machinery
Steel screws driven in with hand tools
Sherardised steel
50mm x 1050mm
Enquire for details

Screw Pile
Twin post Modular systems
Sites where breaking ground is possible and geotechnical results permit use.
By hand and/or with machinery
S235 Grade Steel (Pipe) S355 Grade Steel (Flange) Hot dip galvanised to DIN EN ISO 1461
Pipe - 76mm x 3mm x 1250mm Flange – 200mm x 8mm
Enquire for details





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