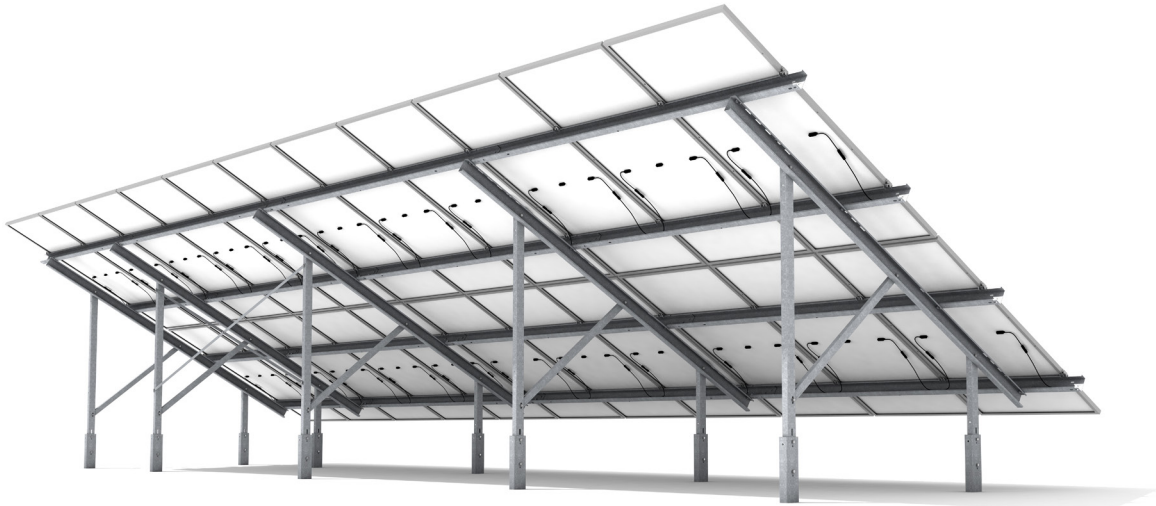


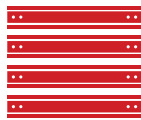


# Modular ground mount system

2-in-portrait system, available off the shelf for rapid deployment



Easy site planning



Held in stock



Range of angles  
available



Utilises a range of  
foundation options

## Overview:

The Modular system is designed for installations up to 1 megawatt of total installed capacity and to utilise any of our foundation options. Site planning, design and installation made easy and available off-the-shelf.

Build your site with minimal variations in mounting system components, with universal parts that are easily added to when needed. As with all of our systems, the framework only uses one fixing size throughout, saving installers issues on site.

We have designed Modular to cover 80% of the UK's landmass and to utilise most panel sizes on the market, giving developers peace of mind and less to consider when deciding on a system and planning their sites.



# Technical data

## modular ground mount

Modular can utilise 5 different foundation options, ensuring that almost no terrain is off limits and is held in stock for rapid distribution nationwide.

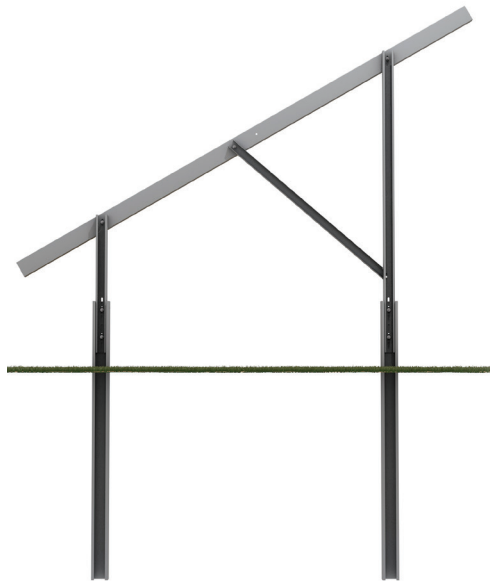
The modular design allows for the tables to be built in bays of 2 or 3 panels wide and is suitable for ground up to a maximum slope of approximately 5°.

Panel configuration:	2 in portrait
Panel min and max length:	Minimum length: 1650 mm. Maximum length: 2470 mm
Purlin configuration:	4 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:	20°: Minimum (clearance): 785 mm Maximum (to top of rafter): 2200 mm 25°: Minimum (clearance): 735 mm Maximum (to top of rafter): 2455 mm 30°: Minimum (clearance): 680 mm Maximum (to top of rafter): 2694 mm
Bay sizes:	2 panel and 3 panel wide
Table configuration min and max:	2 panels x 2 panels minimum. 30 panels x 2 panels maximum
Bay pitches:	2000 mm, 2500 mm, 3000 mm, 3500 mm. Each pitch can have 100 mm added if Extension Joiner is used
Foundation types:	Driven Pile, Concreted Pile, Ballasted, X Anchor, Spirafix
Material specification:	S350 & S450 grade steel. Coating Z600 or ZM310. Piles hot dip galvanised to ISO 1461. Average coating 55 µm
Wind speed:	Fundamental basic UK wind velocity within the UK up to 28m/s
Snow loads:	0.7 kN/m <sup>2</sup> 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)



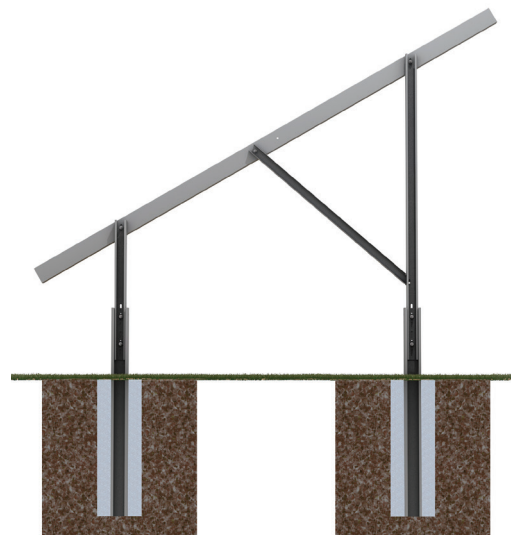
# Modular foundation types and technical data

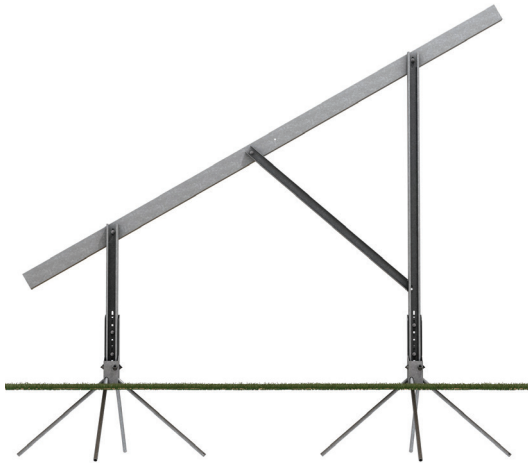
Install the Modular system with any of the following foundation options



- Name:** Driven pile (C Profile)
- Suitable for:** Sites where breaking ground is possible, geotechnical results permit use and/or machinery is available
- Installation:** Piling rig.  
2000 mm pile, 1500 mm embedment
- Material:** Hot rolled steel (S355JR).  
Hot dipped galvanised to ISO 1461
- Dimensions:** 120 mm x 70 mm x 3 mm x 2000 mm
- 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)

- Name:** Concreted pile
- Suitable for:** Sites where breaking ground is possible, geotechnical results permit use and/or machinery is available
- Installation:** 1500 mm pile, 250 mm dia x 1000 mm deep augered hole, 4 bags of Postcrete per hole
- Material:** Hot rolled steel (S355JR).  
Hot dipped galvanised to ISO 1461
- Dimensions:** 120 mm x 70 mm x 3 mm x 1500 mm
- 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)





**Name:** X Anchor

**Suitable for:** Sites that require shallow embedment and/or no heavy machinery

**Installation:** Steel rods driven in with hand tools

**Material:** Hot rolled steel (S355JR).  
Hot dipped galvanised to ISO 1461

**Dimensions:** 600 mm embedment

**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)

**Name:** Ballasted

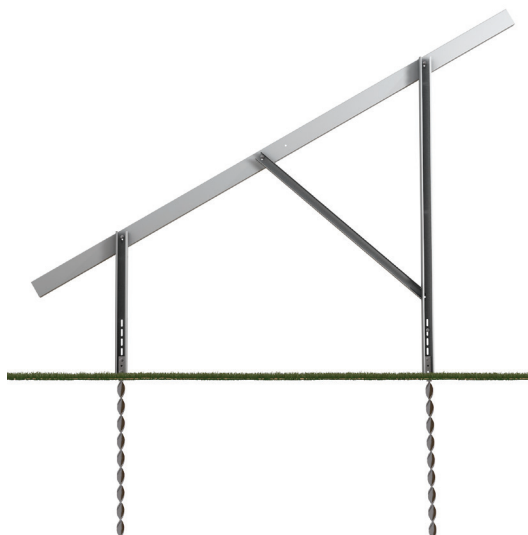
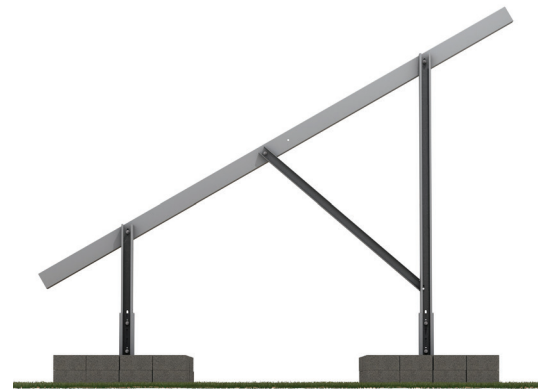
**Suitable for:** Sites where breaking ground is not permitted (archaeological or geotechnical)

**Installation:** Steel plates weighted with high density concrete blocks

**Material:** Hot rolled steel (S355JR). Hot dipped galvanised to ISO 1461.  
S350-S450 galvanised steel (ZM310)

**Dimensions:** Plate size: 960 mm x 900 mm

**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)



**Name:** Spirafix

**Suitable for:** Sites that require shallow embedment and/or no heavy machinery

**Installation:** Steel screws driven in with hand tools

**Material:** Sherardised steel

**Dimensions:** 50 mm x 1050 mm

**Website link:** <https://www.spirafix.com>

**Useful links:**

To check wind and snow loads: <https://www.dlubal.com/en/>  
Data on Spirafix load charts: <https://www.spirafix.com/specification/load-charts>