



Modular ground mount



Easy site planning



Held in stock



Range of angles available



Utilise all of our
foundation options

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.

Modular ground mount **technical data:**

Introduction:

Modular is a twin-post, 2-in-portrait, fixed-tilt ground mount system. It is structurally calculated and designed to be installed across 80% of the UK and to suit almost any panel on the market. Modular can utilise 5 different foundation options, ensuring that almost no terrain is off limits. It is also 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°.

Overview of components:



Panel configuration:

2 in portrait

Panel minimum and maximum 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 specification:

Panels fitted using aluminium top hat and end clamps, with sliding clamps to give mounting positions

System angles:

20°, 25°, 30°

System minimum and maximum 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 minimum and maximum:

2 panels x 2 panels minimum. 30 panels x 2 panels maximum

Bay pitches:

2,000 mm, 2,500 mm, 3,000 mm, 3,500 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 55µm

Wind speed:

28 m/s max

Snow loads:

0.7 kN/m² 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)

Foundations **technical data:**



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 or augered and concreted in
For piling:	2000 mm pile, 1500 mm embedment
For concrete:	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 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: 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

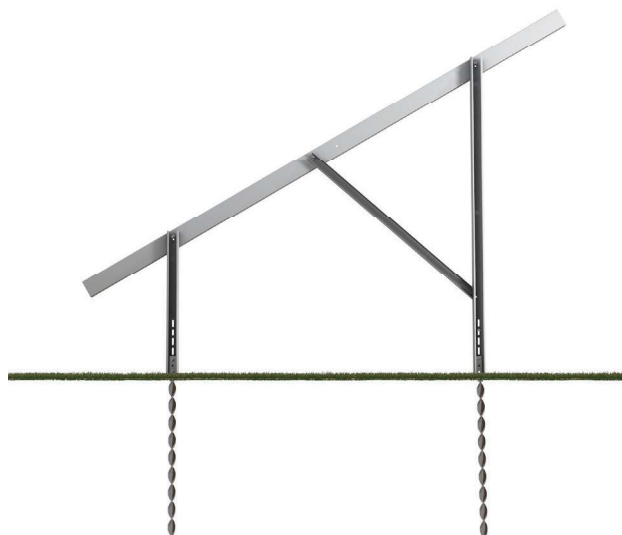
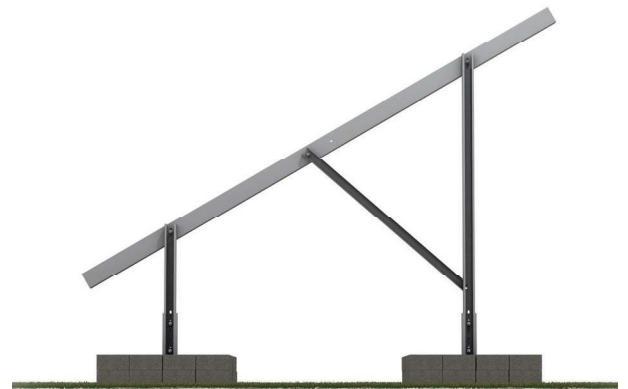
Suitable for: Sites where breaking ground is not permitted (archaeological or geotechnical)

Installation: Steel plates weighted with high density concrete blocks

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