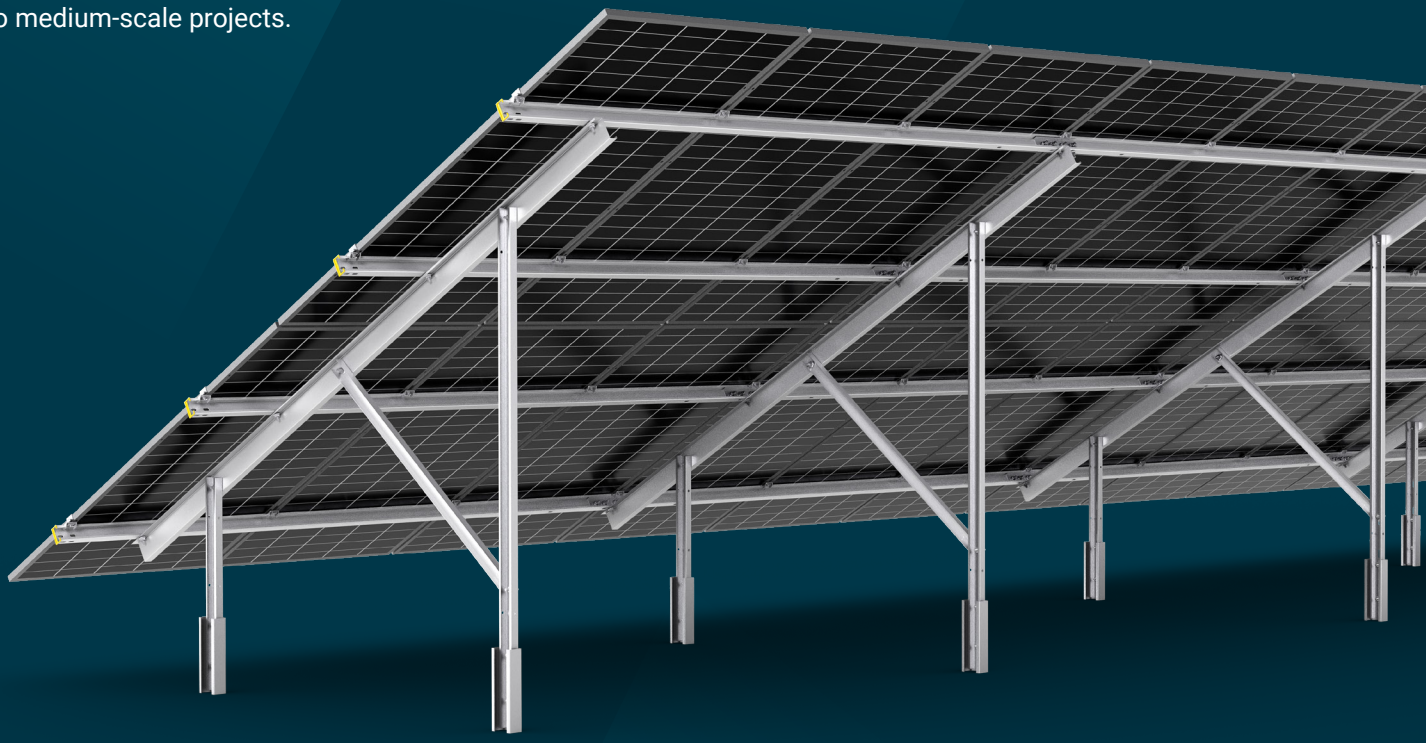
2-IN-PORTRAIT, TWIN-POST MODULAR GROUND MOUNT

For Residential and Commercial Solar Projects

Solarport's 2-in-Portrait ground mount is ideal for commercial and residential solar installations. This innovative system simplifies the complexities of installing ground-mounted solar panels, providing a robust and flexible solution for small to medium-scale projects.



EASY SITE PLANNING | **UNMATCHED SUPPORT & RAPID DELIVERY** | **SINGLE FIXING SIZE USED THROUGHOUT** | **DIVERSE RANGE OF FOUNDATIONS**

STREAMLINED DESIGN & INSTALLATION

Our 2-in-Portrait system is renowned for its intelligent design that streamlines the entire process from site planning to deployment, making it a preferred choice for those seeking efficient solar mounting solutions. By reducing component variations and employing universal parts the system not only speeds up the installation process but also ensures easy system expansion with a single fixing size used throughout.

COMPATIBILITY & FLEXIBILITY

Engineered to be versatile, the 2-in-Portrait supports a wide array of solar panel sizes and is compatible with almost any terrain, making it a flexible option for a variety of solar ground mount projects. Whether you're dealing with commercial or residential settings, Modular integrates seamlessly with our foundation options, optimising each installation to specific site conditions.

DIVERSE FOUNDATION OPTIONS

Our broad selection of foundation options ensures that Modular systems can be installed on virtually any terrain. From ground anchors in challenging conditions to ballasted systems where minimal ground disturbance is necessary, Modular provides stable and durable foundations for every solar project.

Contact for enquiries: Modular@SolarportSystems.com

TECHNICAL DATA

2-in-Portrait, Twin-Post Modular Ground Mount

PANEL CONFIGURATION:
2-in-Portrait, Twin-Post

PANEL MIN AND MAX LENGTH:
Min length: 1650 mm
Max length: 2470 mm

PURLIN CONFIGURATION:
4 purlins, position determined by panel dimensions and clamping zones

PANEL CLAMPING ZONES:
Please refer to the 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°: Min (clearance): 785 mm
Max (to top of rafter): 2200 mm

25°: Min (clearance): 735 mm
Max (to top of rafter): 2455 mm

30°: Min (clearance): 680 mm
Max (to top of rafter): 2694 mm

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 an Extension Joiner is used

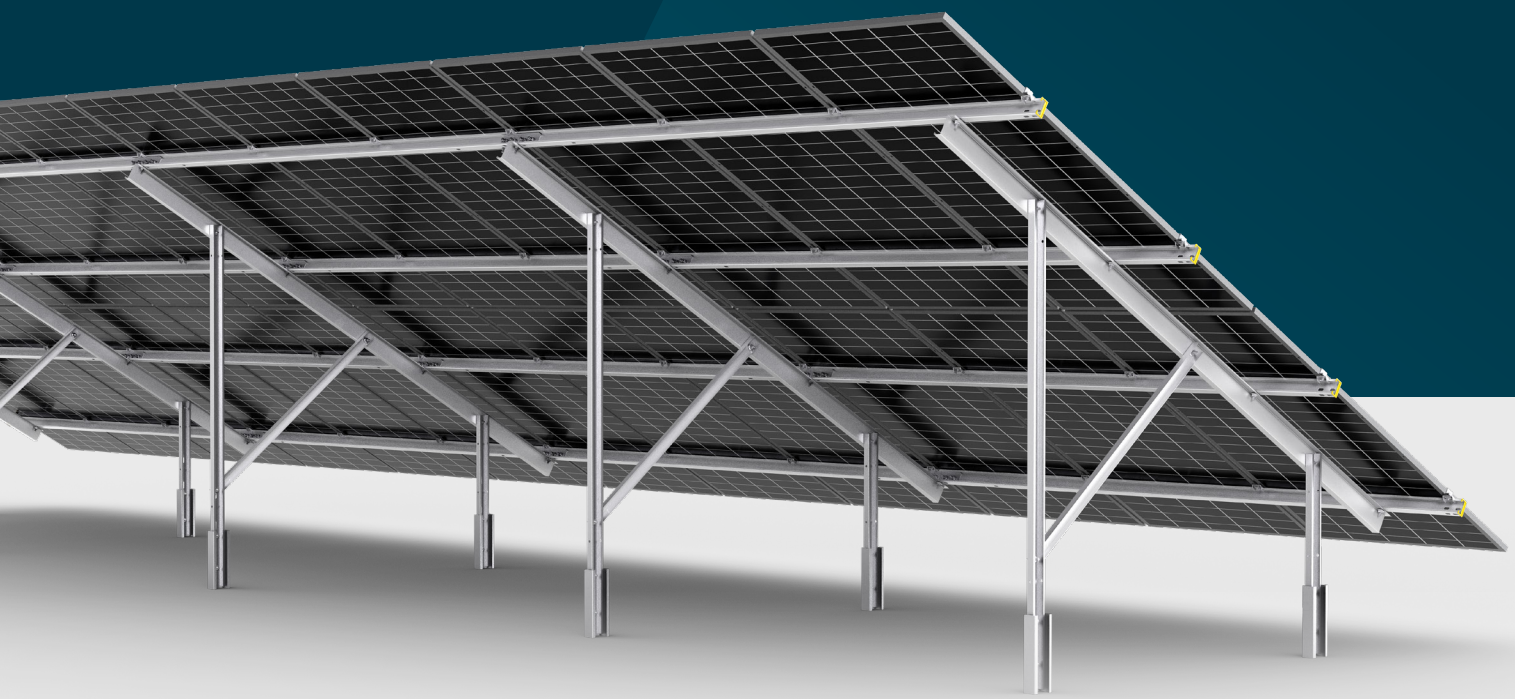
FOUNDATION TYPES:
C Pile, Concreted Pile, Ballasted, X-Anchor, Direct Fix, Screw Pile

MATERIAL SPECIFICATION:
S450 grade steel
Coating ZM310 & ZM800

WIND SPEED:
Fundamental basic UK wind velocity within the UK up to 26m/s

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



FOUNDATION OPTIONS

2-in-Portrait, Twin-Post Modular Ground Mount

C PILE

Applicable with:
Modular 2-in-Portrait, Twin Post

Suitable for:
Sites where breaking ground is possible and geotechnical results permit use. Performs well in softer ground conditions.

Installation:
Piling rig. 2000 mm pile, 1500 mm embedment

Material:
S450 grade steel

Coatings: ZM800

Corrosion protection is determined from ground investigations if provided

Dimensions:
120 mm x 70 mm x 2.85mm 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)

CONCRETED PILE

Applicable with:
Modular 2-in-Portrait, Twin Post

Suitable for:
Sites where breaking ground is possible and a shorter pile is required 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:
S450 grade steel

Coatings: ZM800

Corrosion protection is determined from ground investigations if provided

Dimensions:
120 mm x 70 mm x 2.85 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)

BALLASTED

Applicable with:
Modular 2-in-Portrait, Twin Post

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

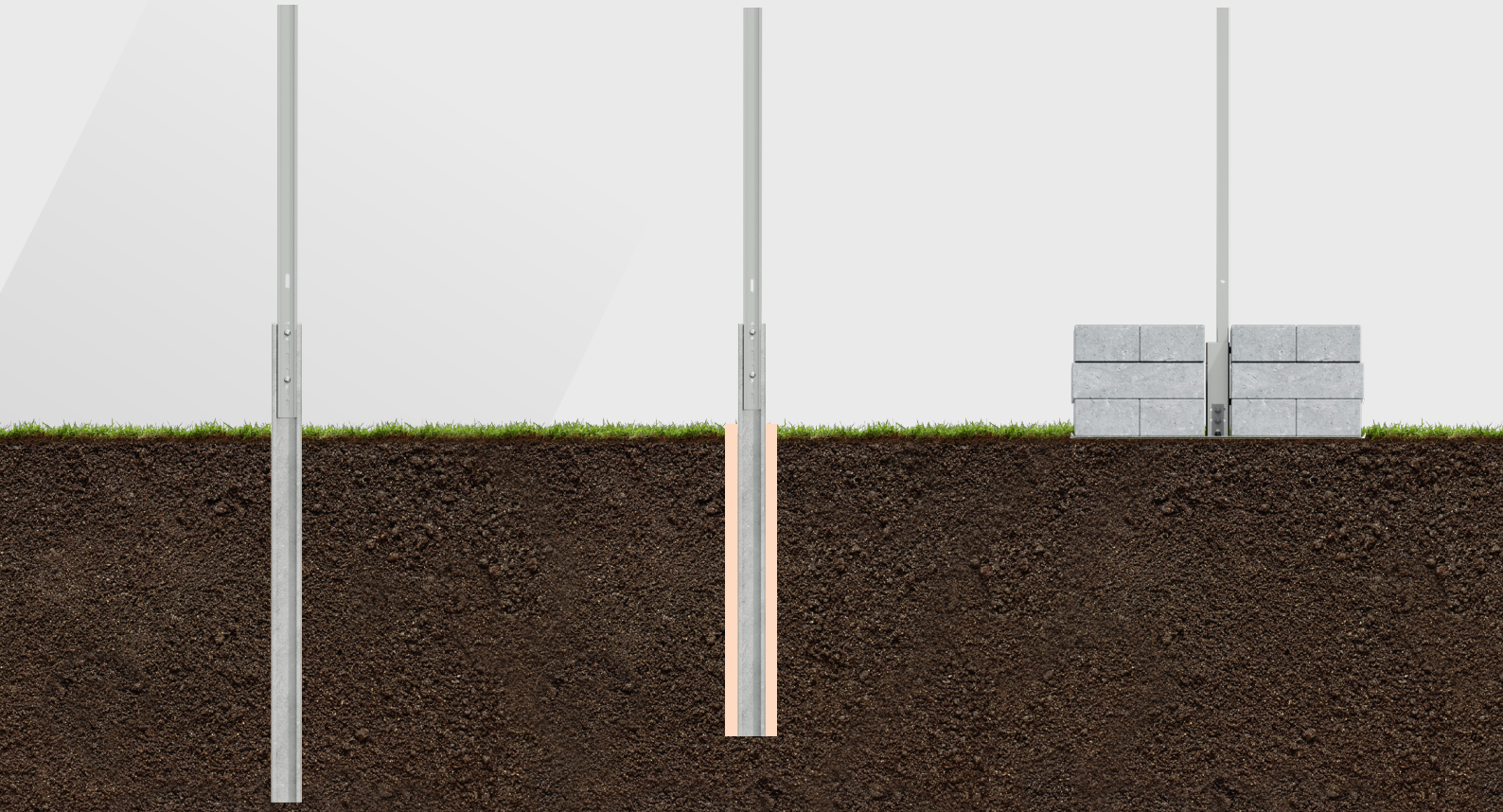
Material:
S450 grade steel

Coatings: ZM800

Corrosion protection is determined from ground investigations if provided

Dimensions:
Plate size: 860mm x 985mm

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)



FOUNDATION OPTIONS

2-in-Portrait Modular Ground Mount

X-ANCHOR

Applicable with:
Modular 2-in-Portrait, Twin Post

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

Installation:
Steel rods driven with hand tools or driven in with a post knocker

Material:
X-Anchor Body: Hot rolled steel (S355JR) hot dipped galvanised to ISO 1461

X-Anchor Folded Rod: ZM800

Corrosion protection is determined from ground investigations if provided

Dimensions:
600mm 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)

DIRECT FIX

Applicable with:
Modular 2-in-Portrait, Twin Post

Suitable for:
Non-cracked concrete foundations ranging between C20/25 & CS0/60

Installation:
Torque controlled expansion bolts fitted into concrete with hand tools

Material:
Adjustable upright: S450 grade steel

Coatings: ZM800

Bolts: High tensile steel hot dipped galvanised to EN 1461

Corrosion protection to be determined from site location

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)

SCREW PILE

Applicable with:
Modular 2-in-Portrait, Twin Post

Suitable for:
Sites where breaking ground is possible and geotechnical results permit use

Installation:
By hand and/or with machinery

Material:
Pipe: S235 Grade Steel

Flange: S355 Grade Steel

Hot dip galvanised to DIN EN ISO 1461

Dimensions:
Pipe: 76mm x 3mm x 1250mm

Flange: 200mm x 8mm

Design Codes:
Enquire for details