

# Technical information



**Omega Rail**

**Back-2-Back Rail**

## Hill & Smith Solar. Generic System Features



### Application

- > Ground mount

### Design

- > Single / double post design
- > North-South or East-West design
- > Designed to Euro Code EN 1991 standard

### Orientation of modules

- > Portrait or landscape

### Posts

- > Flexible post spacing to optimise material cost
- > S275 or S355 steel, hot-dip galvanised to EN 1461/10346 standard
- > Process of fabrication: punched / bent

### Supporting structure

- > Zinc-magnesium-coated S350 steel for long-term corrosion resistance
- > Process of fabrication: cold roll formed

### Fasteners and small parts

- > M10 and M12 HDG flanged nuts and bolts
- > Security screws and fasteners
- > Adjustment washers
- > Cable clips

### Mounting angle

- > 10 to 40 degrees in North-South or East-West direction

### Slope of terrain

- > Bespoke design to suit terrain

### Foundation

- > Driven posts (top hat section)
- > Precast concrete foundation
- > ballast / purlin foundation

### Cabling

- > Cabling can be integrated into the rail and is held by our cable clip

### Structure tolerances

- > Height adjustment: +/- 10 mm
- > North-South adjustment: +/- 10 mm
- > East-West adjustment: +/- 10 mm
- > Tolerance of foundation implantation: +/- 40 mm
- > Spacing for dilatation: 3 to 15 mm

### Foundation tolerances

- > Height adjustment: +/- 30 mm
- > Adjustable North-South position: +/- 30 mm
- > Adjustable East-West position: +/- 30 mm

### Warranty

- > 25 years structural warranty underwritten by Hill & Smith Holdings PLC

### Lifetime

- > 30 years

### Leadtime

- > 4 to 6 weeks for completion of all components (Subject to project size and production pipeline – please confirm with us)

### Estimated installation time

- > Post driving and frame assembly: approx. 1 week with 12 workers for 1MW

 All components are included in our price – no additional cost