



STANDARD PV SOLAR SOLUTION GROUND MOUNT DOUBLE ROW STRUCTURE

The Valsa Standard Ground Mounting Double Row structure solution provides a quick-install, secure structure for PV Solar panels for ground installations. It is the ideal option when roof space is not available or when only ground space can be utilised.

The modular design reduces the number of components and is universal, suitable for all size PV Solar panels and can accommodate a double row configured with up to 80 panels per table. Two rows in a portrait orientation with up to 80 panels in a table with tilt angles from 10 to 30° with a 5° increase. This allows for the installation to be set at a perfect angle to optimise energy production for different regions and countries.

- In-land application for more than 20 km away from the sea manufactured from Pre-Galvanised material
- Coastal applications for up to 20 km from the sea is manufactured from Hot Dip Galvanised material

The choice of the best ground mounting solution is influenced by the soil composition (either pile driving or standard footing for concrete foundations will be used), module size, tilt angle and other site features. For larger installations Steel piles are rammed into the ground. The thickness, length and depth of the piles depend on the soil composition confirmed through geological survey results. From sandy soil conditions to rocky soil, the length of the pile will be determined by the pull-out test performance of the soil. The adequate size pile will be specified by the engineering simulation done for the site conditions.

Where the soil is not suited for piles an anchor system can be used in the form of a concrete strip foundation or a concrete slab. This is often used in commercial installations where ground penetration is not permitted or for smaller size installations. The mounting structure meets structural engineering requirements and have been designed and manufactured to International standards and are in line with SANS regulations.

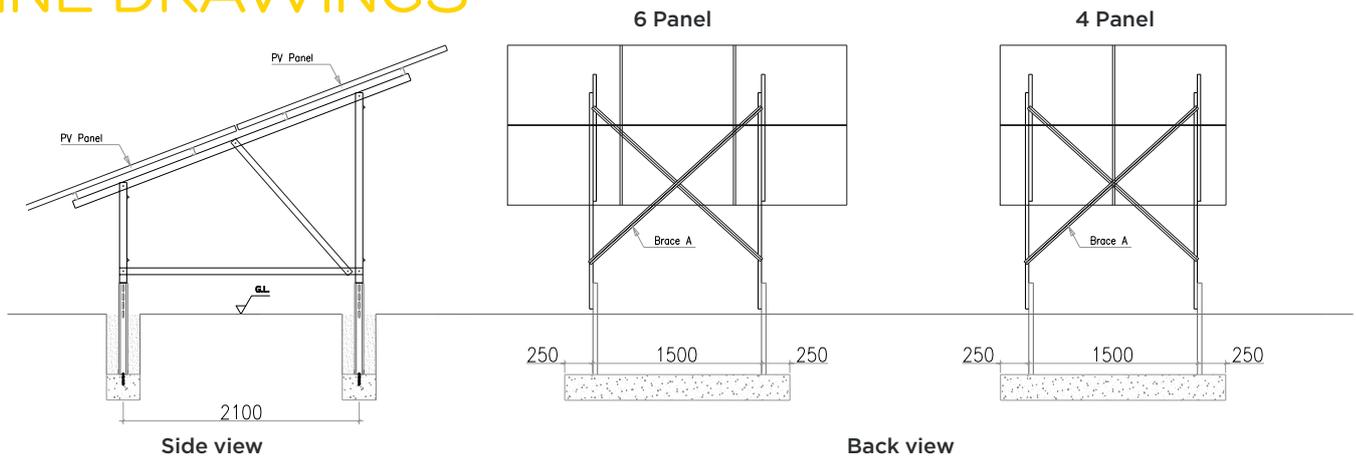
CHARACTERISTICS

Versatility	<ul style="list-style-type: none"> Standard arrays/tables suitable for all size panels Custom made to the site specifics Available fixed tilt of the structure from 5 up to 40°
Design	<ul style="list-style-type: none"> Flexible design to accommodate all requirements Can accommodate up to 40 meters in length of PV solar arrays Provides any fixed tilt angle Resistant to wind forces up to 40m/s Mechanical performance verified by engineers Compact and easy to transport
Flexible	<ul style="list-style-type: none"> Modular design Portrait orientation is available - 1 and 2 panels per row as a standard option Offers fixed tilt angles with desired degree tilt from the customer Fast to assemble
Cost effective	<ul style="list-style-type: none"> Specifically designed to be a cost effective solution
Tools	<ul style="list-style-type: none"> Ramming machines are required for larger installations Elementary (basic) civil works for the concrete foundation option
Project design	<ul style="list-style-type: none"> Meets structural engineering requirements
Long life span	<ul style="list-style-type: none"> Durable material for long life span
Maintenance	<ul style="list-style-type: none"> Extended life span of the material through maintenance
Warranty	<ul style="list-style-type: none"> 10 years warranty

SPECIFICATIONS

Material	Pre-Galvanised or Hot Dip Galvanised
Tilt	Fixed tilt- from 5 to 40°
Components	Galvanised Steel components, Aluminium clamps for PV panels
Certification	Engineering certified
Warranty	10 years site dependant

LINE DRAWINGS



**Standard available configurations:
(Custom made solution available)**

4	6	8	10	12	20
30	40	50	60	70	80

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