

Power Solution Industries



SOLAR PV MOUNTING SYSTEM



SOLAR PHOTOVOLTAIC MOUNTING SYSTEMS

Keeping The Planet Green

Power Solution Industries is one of the leading Cable Management Systems & Cable Support Systems, manufacturing company across the Middle East. Today Power Solution Industries is a 350 plus member team that engineers, produces, manages and delivers the widest range of cable management systems from UAE and KSA, meeting the stringent European and American standards with cutting edge technology and supplying to Middle East market segments in the region.

PSI has extensive purpose built production and logistics facilities, integrating the most advanced fabrication facilities that manufacture & produce around 28,000 tons of Cable Management & supports annually. PSI has established its production and logistics in Riyadh in Saudi Arabia, Ajman in the UAE & Doha in State of Qatar.

The smart initiative of Dubai government is a transition towards a green economy, implementing green initiatives, adopting economic diversification and its commitment to achieving sustainable development, based on knowledge, innovation, and sustainable green growth, to achieve economic prosperity.

The global efforts to reduce the carbon footprints and boost clean environment has energized & encouraged PSI to contribute in the development towards clean energy.

PSI has developed & launched TUV Nord Europe certified full range of Solar Photovoltaic Mounting Systems, which have been designed to suit the local environment & would support all the installations ranging from Ground Mounted to any type of Roof Top Mounted installations. The PSI Mounting Systems are produced to Euro Codes 1, 3, 8, 9 & are in compliance to Dubai Municipality Seismic Design Loads.

The PSI Solar Engineering team can design & customize the mounting systems depending on the site location and provides complete technical support & guidance through all phases of installations.

Power Solution Industries operates within ISO 9001: 2008 requirements & has fully automated production & manufacturing processes which endorses PSI's commitment to total work ethic, quality production, and overall quality in systems and quality services.

PSI is committed to innovation, and consistently performs on par with the industry's highest standards. Power Solution Industries has achieved a trailblazing journey of success across the region, establishing an international reputation, an outcome of a collective vision, reaching out to newer regions and delivering its promise for quality, commitment and building long-term partnerships.

TUV Certified Mounting Systems



QUALITY ASSURANCE

*Power Solution Industries quality plan conforms comprehensively to ISO 9001:2008.
The quality assessment and reviews are carried out by DET NORSKE VERITAS.*

The organization defines its quality objectives at the various levels of the company in order to achieve continual improvement in quality management system.

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ISO 9001 : 2008 Certified



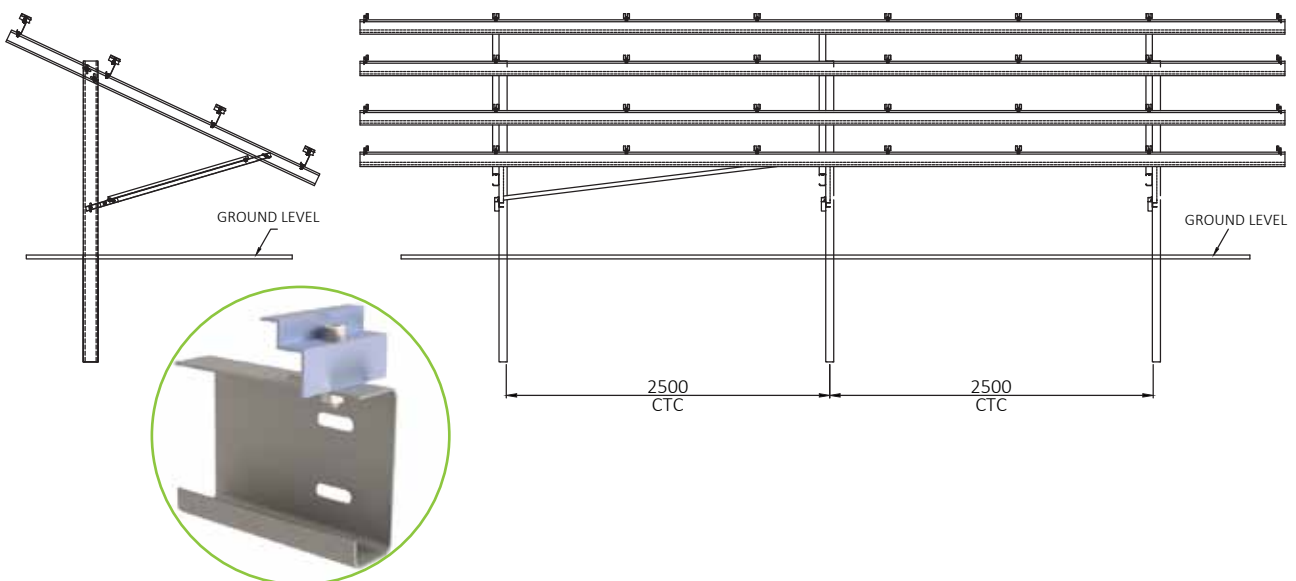
PSI EMERALD

Single Pile Double Portrait Mounting Systems with Steel Purlins.



System Arrangement

- This mounting system can be produced and installed in the tables of total length of 12m, 24m & 48m.
- For large scale projects customization of tables could be done.
- The Steel grade used is as per EN 10025 & Hot dip galvanizing to BS EN ISO 1461 : 1999
- The fasteners are used as per CLASS A2 - 70.
- The Inclination / Tilt angle depends on the latitude.
- The distance between the horizontal purlins will be according to the panel dimensions.
- TUV Certified Mounting Systems.



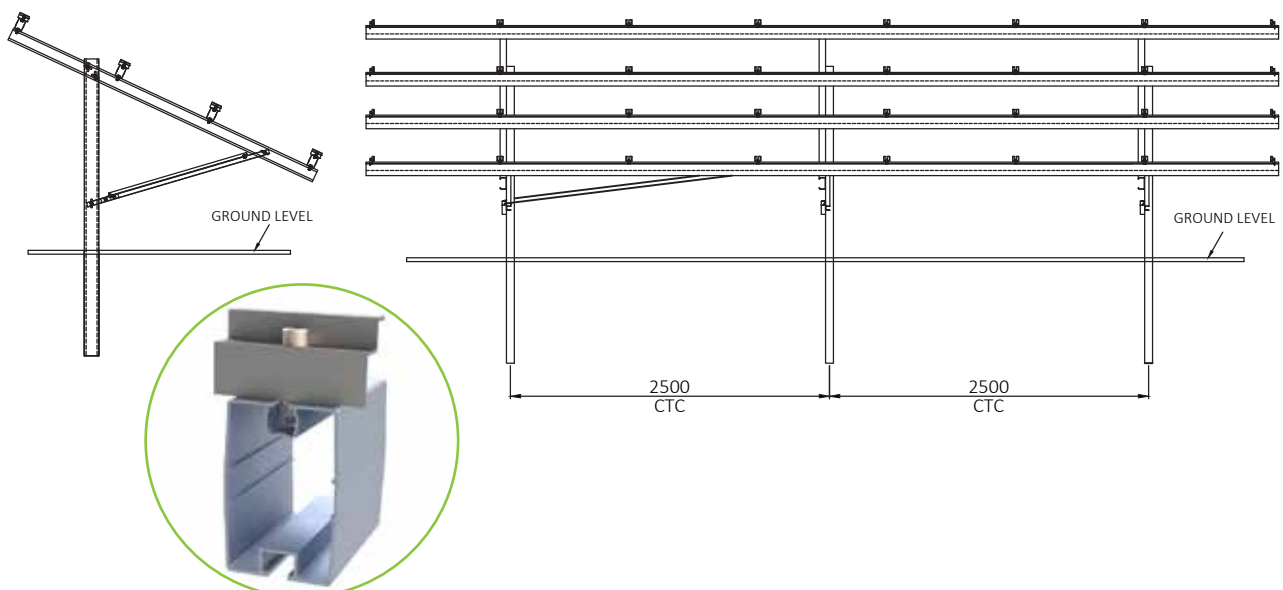
PSI DIAMOND

Single Pile Double Portrait Mounting Systems with Aluminum Purlins



System Arrangement

- This mounting system can be produced and installed in the tables of total length of 12m, 24m & 48m.
- For large scale projects customization of tables could be done.
- The Steel grade used is as per EN 10025 & Hot dip galvanizing to BS EN ISO 1461 : 1999 & Aluminum AA 6063 T6
- The fasteners are used as per CLASS A2 - 70.
- The Inclination / Tilt angle depends on the latitude.
- The distance between the horizontal purlins will be according to the panel dimensions.
- TUV Certified Mounting Systems.



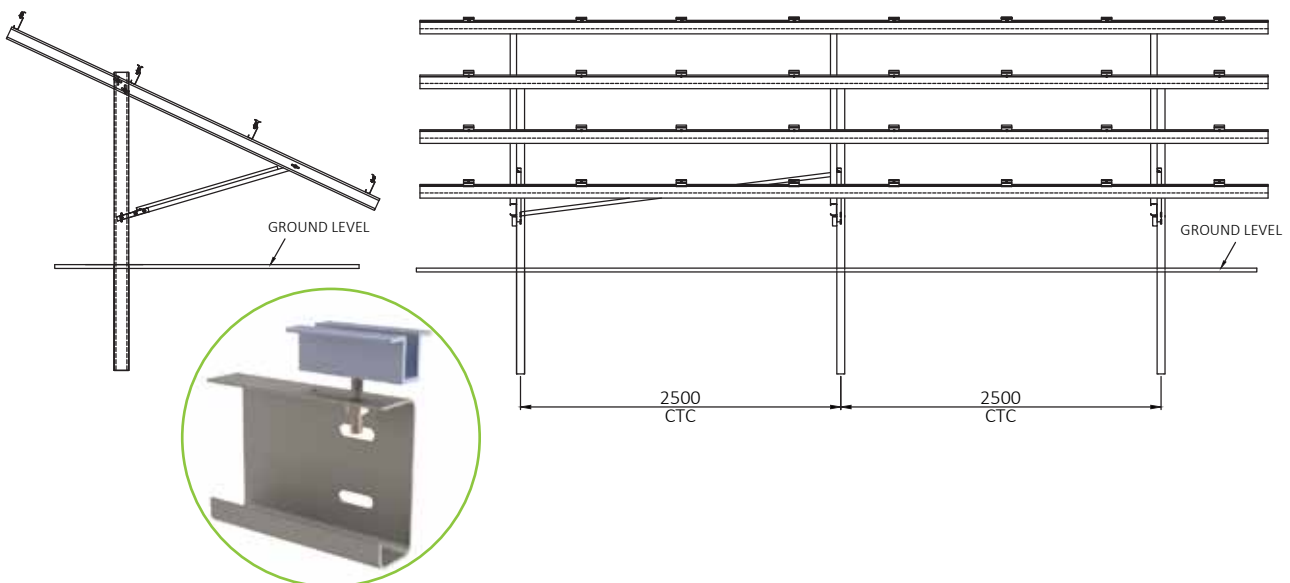
PSI TOPAZ

Single Pile Triple Landscape Mounting Systems with Steel Purlins



System Arrangement

- This mounting system can be produced and installed in the tables of total length of 12m, 24m & 48m.
- For large scale projects customization of tables could be done.
- The Steel grade used is as per EN 10025 & Hot dip galvanizing to BS EN ISO 1461 : 1999
- The fasteners are used as per CLASS A2 - 70.
- The Inclination / Tilt angle depends on the latitude.
- The distance between the horizontal purlins will be according to the panel dimensions.
- TUV Certified Mounting Systems.



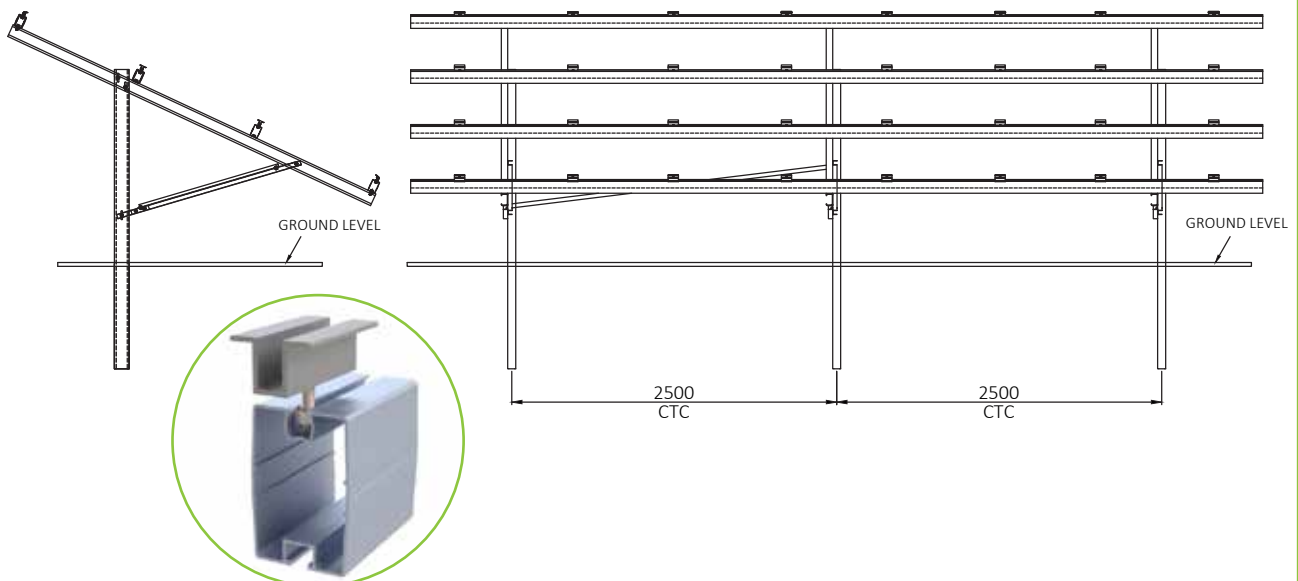
PSI QUARTZ

Single Pile Triple Landscape Mounting Systems with Aluminum Purlins



System Arrangement

- This mounting system can be produced and installed in the tables of total length of 12m, 24m & 48m.
- For large scale projects customization of tables could be done.
- The Steel grade used is as per EN 10025 & Hot dip galvanizing to BS EN ISO 1461 : 1999 & Aluminum AA 6063 T6
- The fasteners are used as per CLASS A2 - 70.
- The Inclination / Tilt angle depends on the latitude.
- The distance between the horizontal purlins will be according to the panel dimensions.
- TUV Certified Mounting Systems.



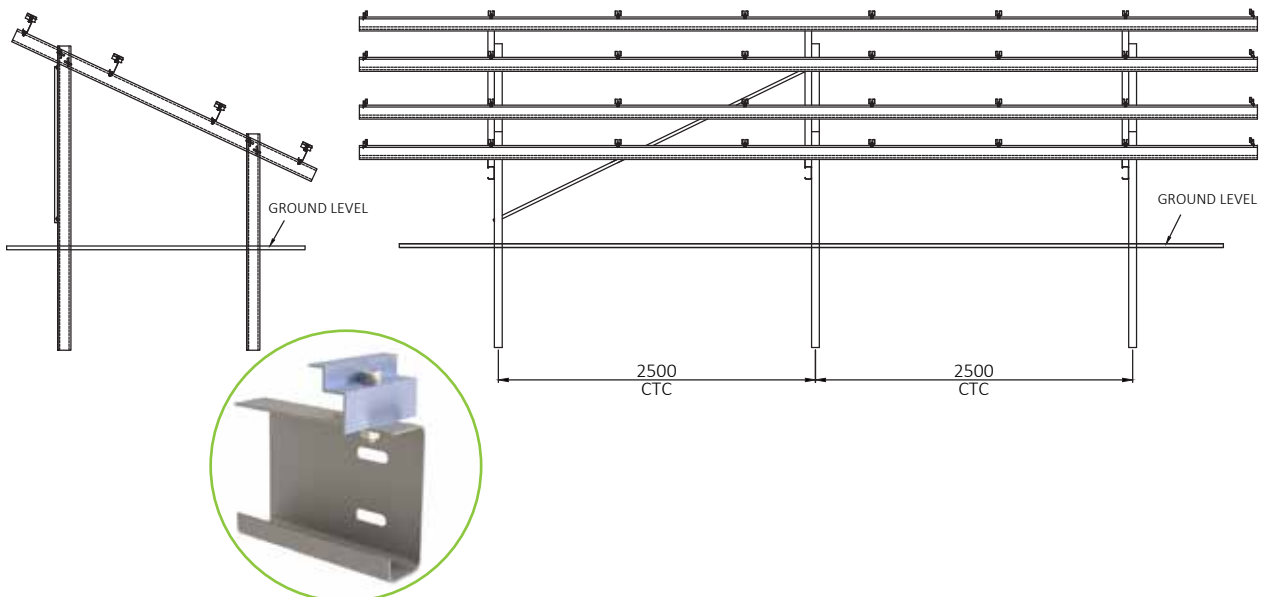
PSI SAPPHIRE

Double Pile Double Portrait Mounting Systems with Steel Purlins



System Arrangement

- This mounting system can be produced and installed in the tables of total length of 12m, 24m & 48m.
- For large scale projects customization of tables could be done.
- The Steel grade used is as per EN 10025 & Hot dip galvanizing to BS EN ISO 1461 : 1999
- The fasteners are used as per CLASS A2 - 70.
- The Inclination / Tilt angle depends on the latitude.
- The distance between the horizontal purlins will be according to the panel dimensions.
- TUV Certified Mounting Systems.



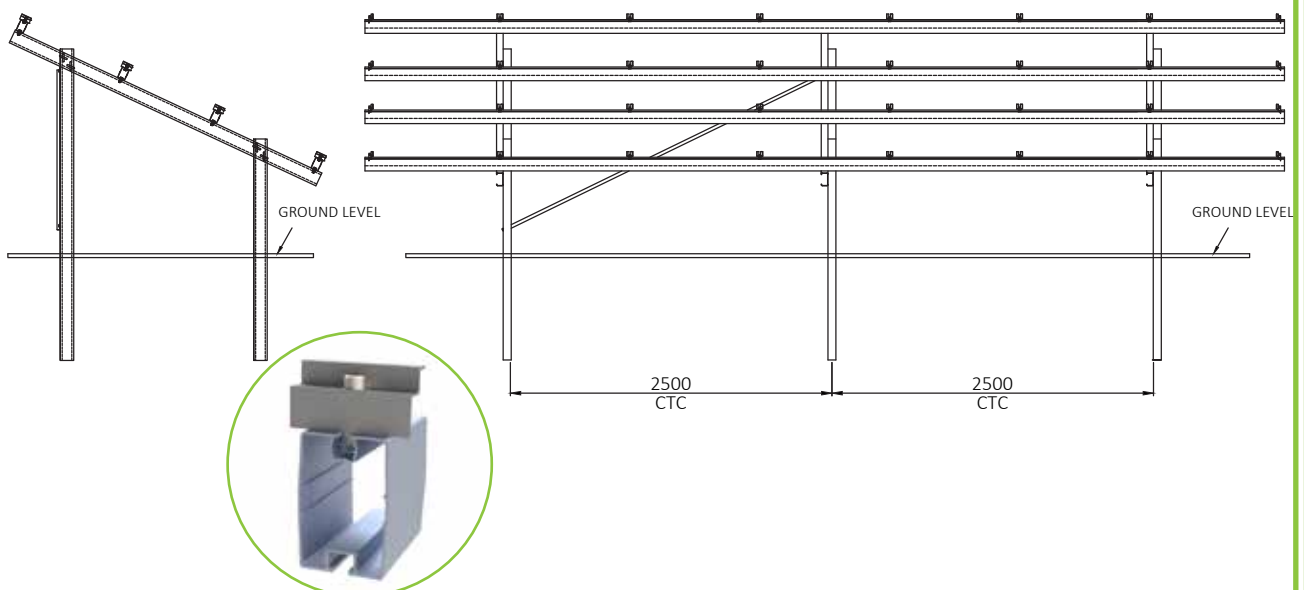
PSI PHOENIX

Double Pile Double Portrait Mounting Systems with Aluminum Purlins



System Arrangement

- This mounting system can be produced and installed in the tables of total length of 12m, 24m & 48m.
- For large scale projects customization of tables could be done.
- The Steel grade used is as per EN 10025 & Hot dip galvanizing to BS EN ISO 1461 : 1999 & Aluminum AA 6063 T6
- The fasteners are used as per CLASS A2 - 70.
- The Inclination / Tilt angle depends on the latitude.
- The distance between the horizontal purlins will be according to the panel dimensions.
- TUV Certified Mounting Systems.



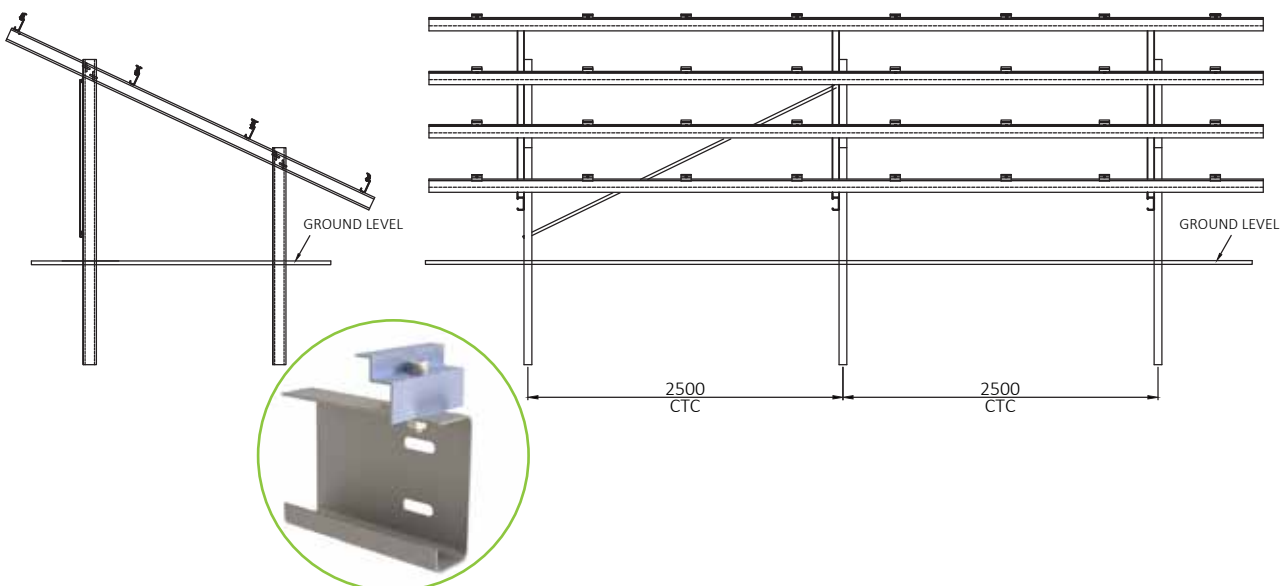
PSI RUBY

Double Pile Triple Landscape Mounting Systems with Steel Purlins



System Arrangement

- This mounting system can be produced and installed in the tables of total length of 12m, 24m & 48m.
- For large scale projects customization of tables could be done.
- The Steel grade used is as per EN 10025 & Hot dip galvanizing to BS EN ISO 1461 : 1999
- The fasteners are used as per CLASS A2 - 70.
- The Inclination / Tilt angle depends on the latitude.
- The distance between the horizontal purlins will be according to the panel dimensions.
- TUV Certified Mounting Systems.



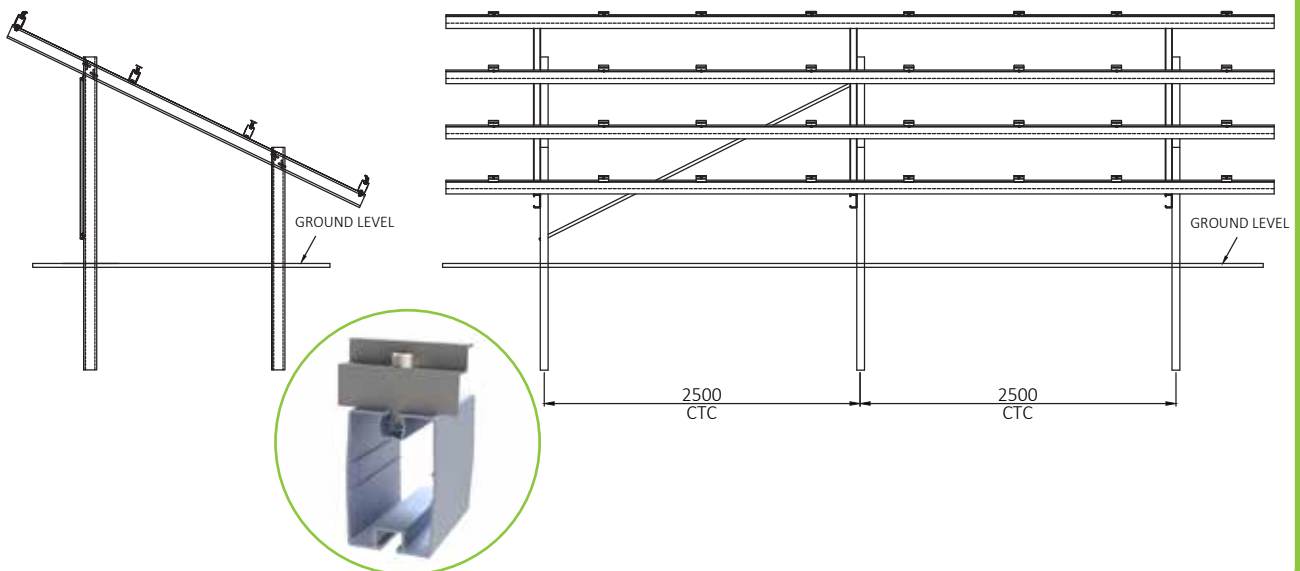
PSI PLATINUM

Double Pile Triple Landscape Mounting Systems with Aluminum Purlins



System Arrangement

- This mounting system can be produced and installed in the tables of total length of 12m, 24m & 48m.
- For large scale projects customization of tables could be done.
- The Steel grade used is as per EN 10025 & Hot dip galvanizing to BS EN ISO 1461 : 1999 & Aluminum AA 6063 T6
- The fasteners are used as per CLASS A2 - 70.
- The Inclination / Tilt angle depends on the latitude.
- The distance between the horizontal purlins will be according to the panel dimensions.
- TUV Certified Mounting Systems.



GROUND MOUNTED SYSTEMS

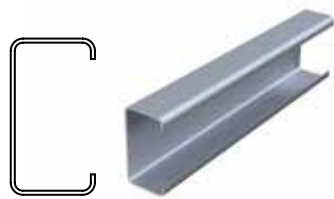
Profile Details & System Advantages

The above structures are ideal for field installations. The Single & Double Pile can be adjusted to all module types and foundations, such as poles, ground screws and concrete slabs.

They are simple to assemble and provide high resistance to wind loads according to Euro Codes 1, 3, 8 and 9 and Dubai Municipality Seismic Design Loads.

Advantages:

- Simple Structure – Easy to install
- High Stability
- Economical Solution
- Quick Installation
- Easy Alignment
- Pile is used as the structure's pole to insure stability
- Can be customized as per the string size
- TUV Certified Systems



PILE



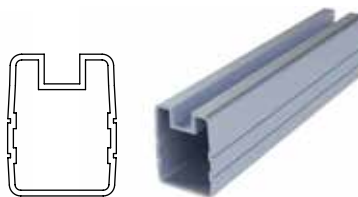
BEAM



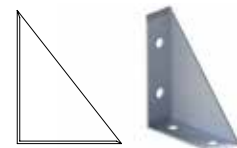
PURLIN



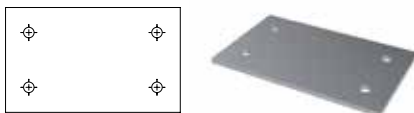
PURLIN



PURLIN CORE JOINT



GUSSET JOINT



PURLIN CONNECTION PLATE



DIAGONAL MEMBER



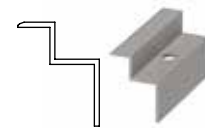
DIAGONAL CONNECTION



TRANSVERSE SEISMIC



MID CLAMP



END CLAMP



Engineered to Excellence

EDITION 2017

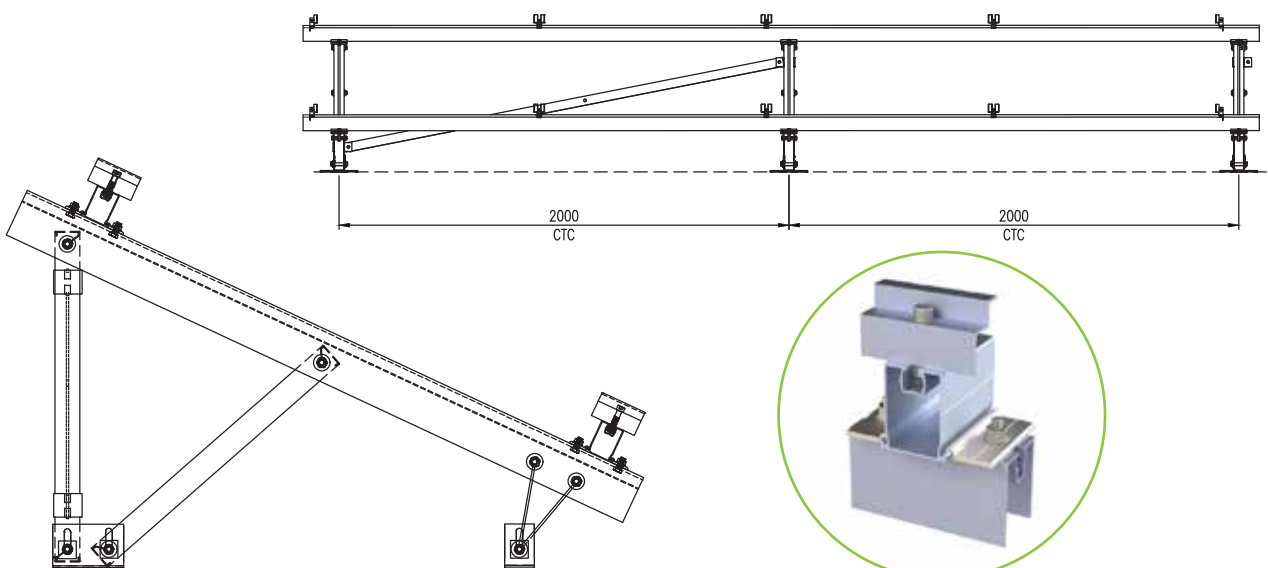
PSI OMEGA

Single Portrait Mounting Systems - Elevated Ballast



System Arrangement

- This mounting system can be designed and installed as per the available Roof Top area.
- For large scale projects customization of tables could be done.
- The Aluminum grade used is AA 6063 T6 with Silver Matt Anodising up to 15 - 18 microns.
- The fasteners are used as per CLASS A2 - 70
- The Inclination / Tilt angle depends on the latitude.
- The distance between the horizontal purlins will be according to the panel dimensions.
- TUV Certified Mounting Systems.



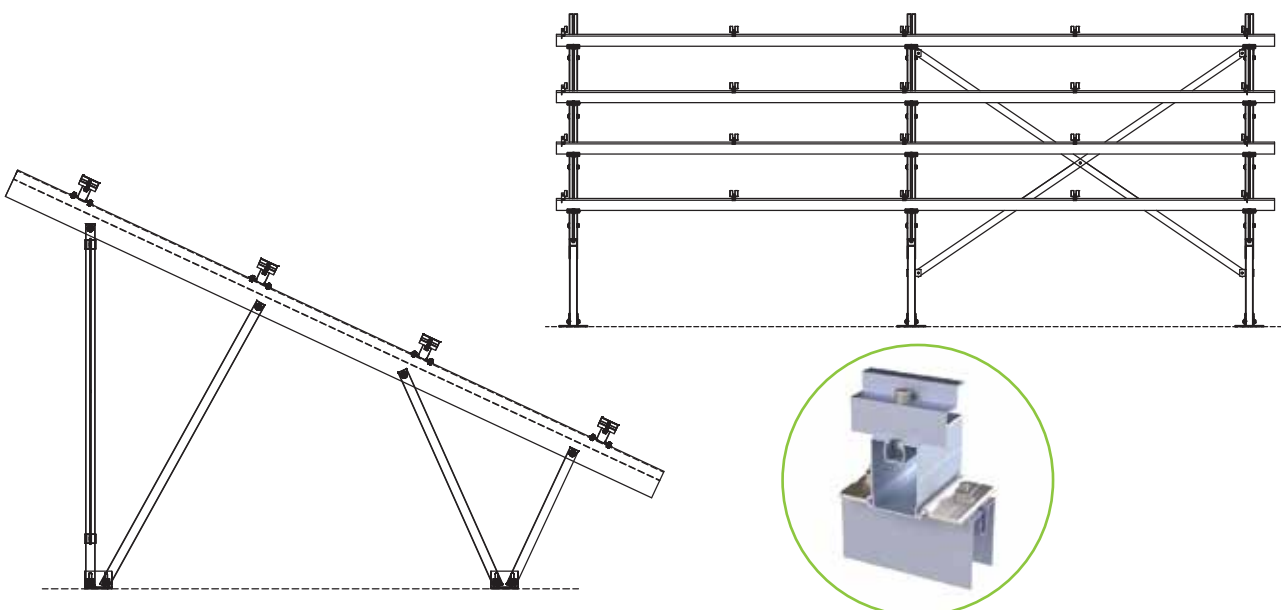
PSI CORONA

Double Portrait Mounting Systems - Elevated Ballast



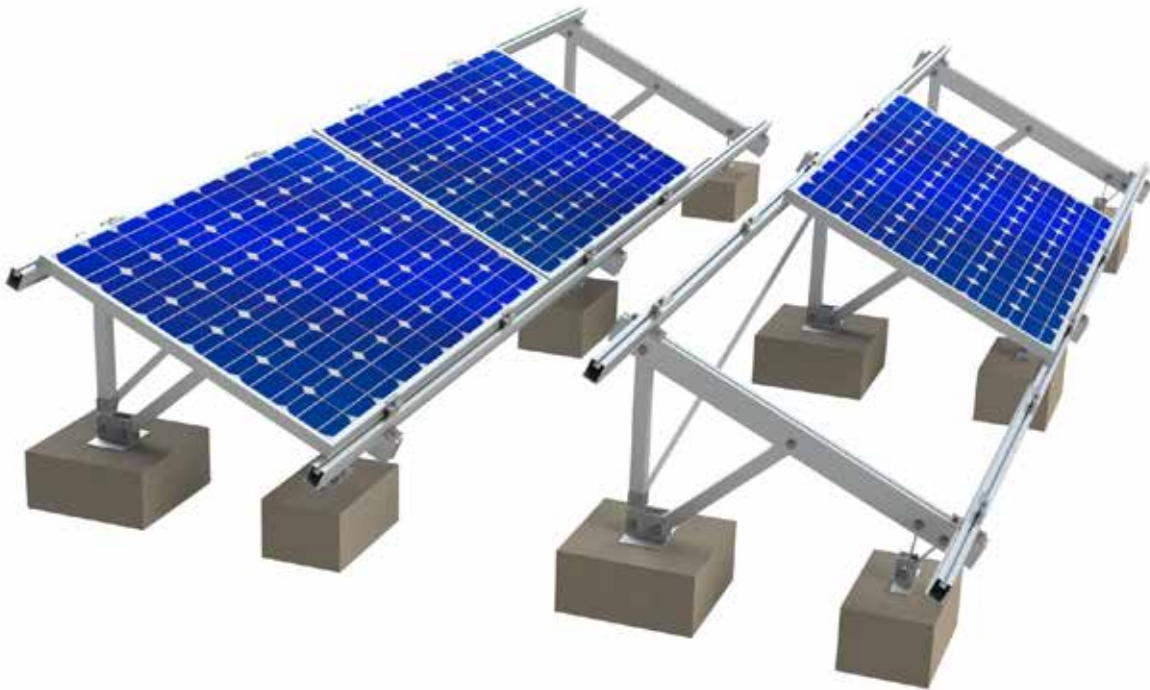
System Arrangement

- This mounting system can be designed and installed as per the available Roof Top area.
- For large scale projects customization of tables could be done.
- The Aluminum grade used is AA 6063 T6 with Silver Matt Anodising up to 15 - 18 microns.
- The fasteners are used as per CLASS A2 - 70
- The Inclination / Tilt angle depends on the latitude.
- The distance between the horizontal purlins will be according to the panel dimensions.
- TUV Certified Mounting Systems.



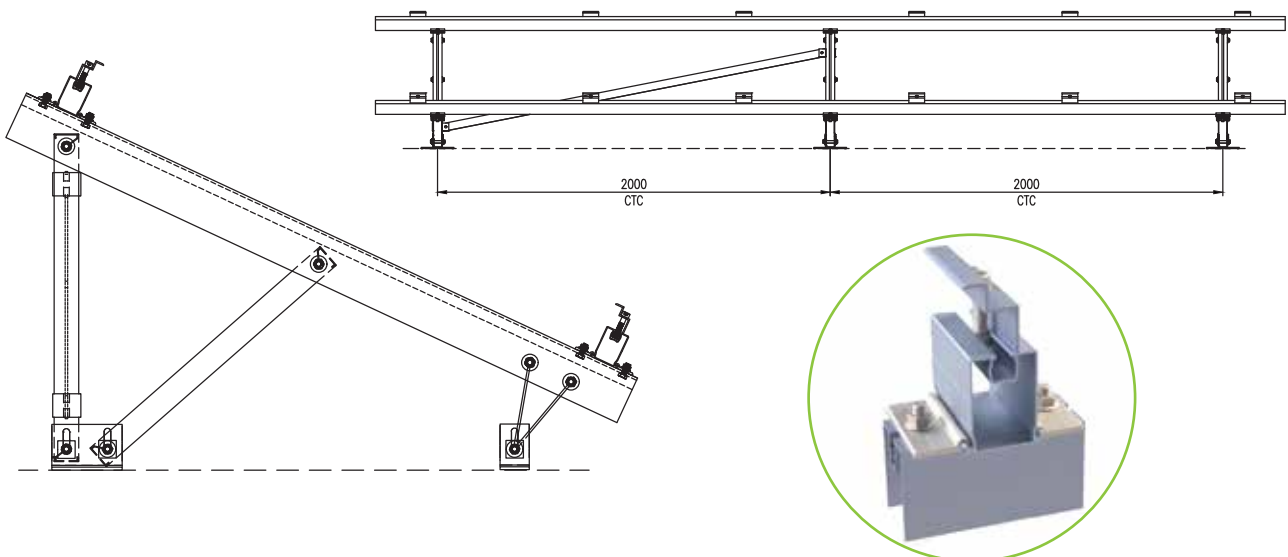
PSI OPAL

Single Landscape Mounting Systems - Elevated Ballast



System Arrangement

- This mounting system can be designed and installed as per the available Roof Top area.
- For large scale projects customization of tables could be done.
- The Aluminum grade used is AA 6063 T6 with Silver Matt Anodising up to 15 - 18 microns.
- The fasteners are used as per CLASS A2 - 70
- The Inclination / Tilt angle depends on the latitude.
- The distance between the horizontal purlins will be according to the panel dimensions.
- TUV Certified Mounting Systems.



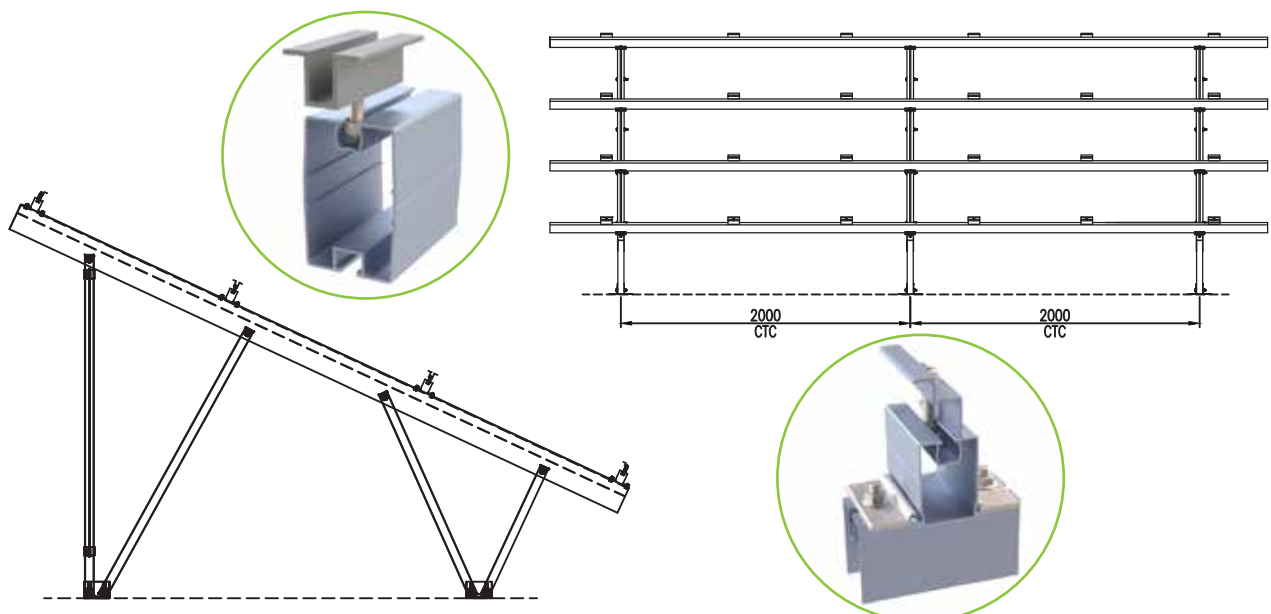
PSI PEARL

Triple Landscape Mounting Systems - Elevated Ballast



System Arrangement

- This mounting system can be designed and installed as per the available Roof Top area.
- For large scale projects customization of tables could be done.
- The Aluminum grade used is AA 6063 T6 with Silver Matt Anodising up to 15 - 18 microns.
- The fasteners are used as per CLASS A2 - 70
- The Inclination / Tilt angle depends on the latitude.
- The distance between the horizontal purlins will be according to the panel dimensions.
- TUV Certified Mounting Systems.



FLAT ROOF MOUNTED SYSTEMS

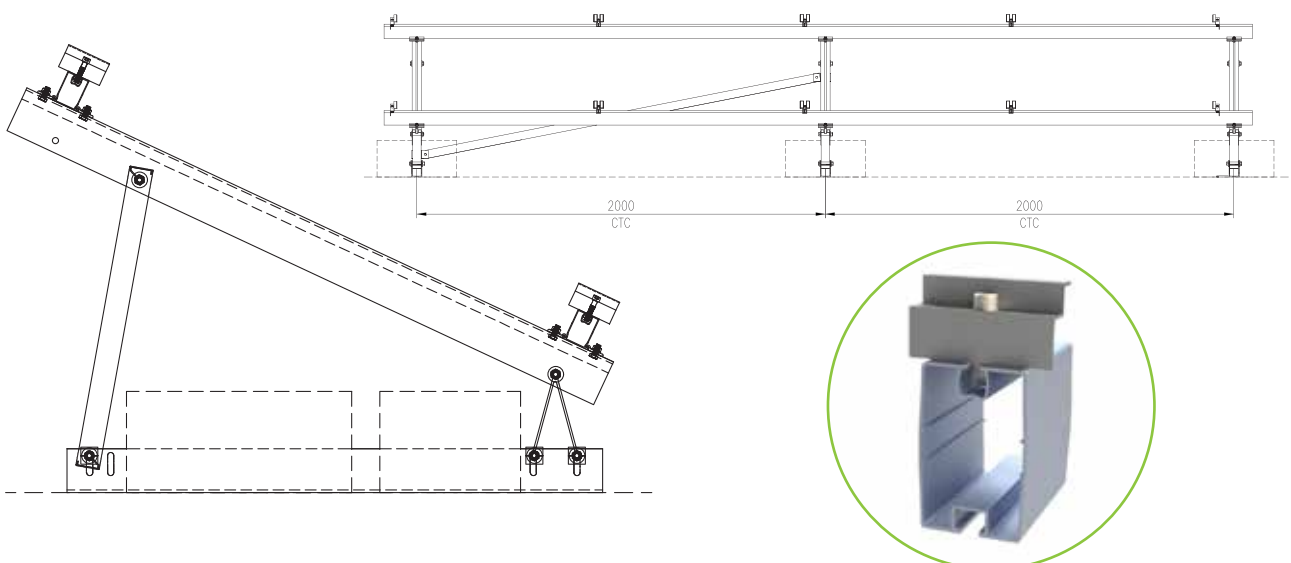
PSI CORAL

Single Portrait Mounting Systems - With Ballast



System Arrangement

- This mounting system can be designed and installed as per the available Roof Top area.
- For large scale projects customization of tables could be done.
- The Aluminum grade used is AA 6063 T6 with Silver Matt Anodising up to 15 - 18 microns.
- The fasteners are used as per CLASS A2 - 70
- The Inclination / Tilt angle depends on the latitude.
- The distance between the horizontal purlins will be according to the panel dimensions.
- TUV Certified Mounting Systems.



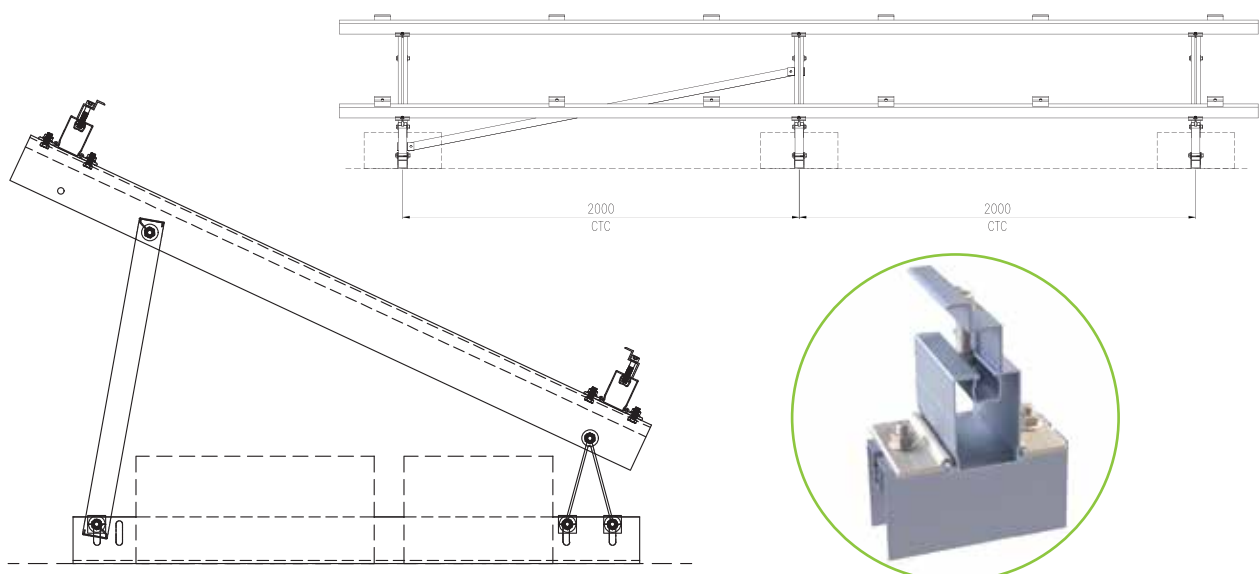
PSI ATLAS

Single Landscape Mounting Systems - With Ballast



System Arrangement

- This mounting system can be designed and installed as per the available Roof Top area.
- For large scale projects customization of tables could be done.
- The Aluminum grade used is AA 6063 T6 with Silver Matt Anodising up to 15 - 18 microns.
- The fasteners are used as per CLASS A2 - 70
- The Inclination / Tilt angle depends on the latitude.
- The distance between the horizontal purlins will be according to the panel dimensions.
- TUV Certified Mounting Systems.



FLAT ROOF MOUNTED SYSTEMS

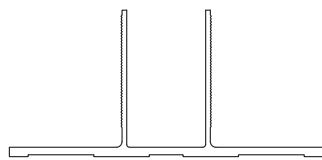
Profile Details & System Advantages

The above structures are ideal for Roof Top installations.

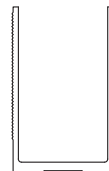
They are simple to assemble and provide high resistance to wind loads according to Euro Codes 1, 3, 8 and 9 and Dubai Municipality Seismic Design Loads.

Advantages:

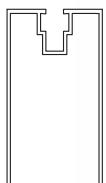
- Simple Structure – Easy to install
- High Stability
- Economical Solution
- Quick Installation
- Easy Alignment
- Can be customized as per the string size
- TUV Certified Systems



BASE



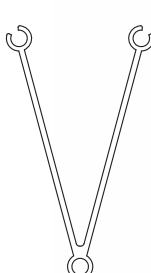
BASE RAIL



BEAM



BEAM



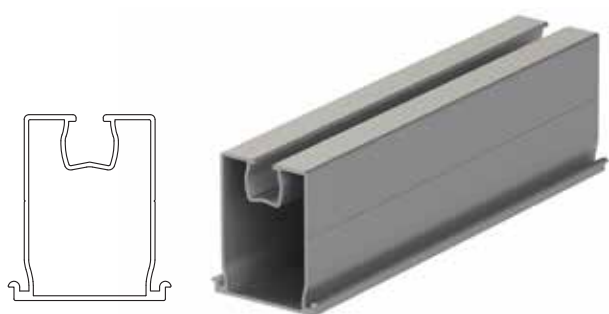
V MEMBER



VERTICAL SUPPORT



SOLAR PHOTOVOLTAIC MOUNTING SYSTEM



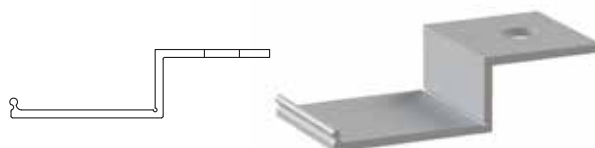
PURLIN



PURLIN JOINT



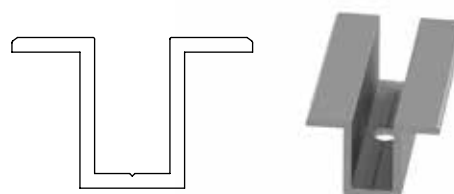
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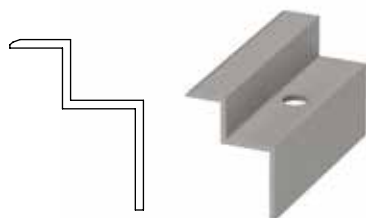
LOCK CLAMP RIGHT



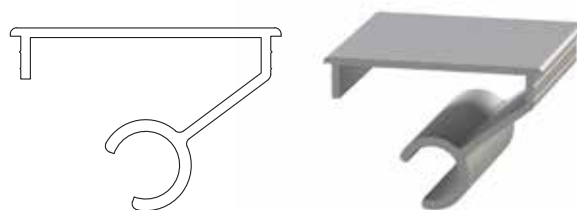
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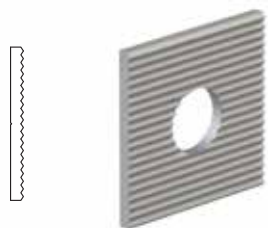
MID CLAMP



END CLAMP



COVER CLAMP



SPLINE WASHER



FLAT MEMBER



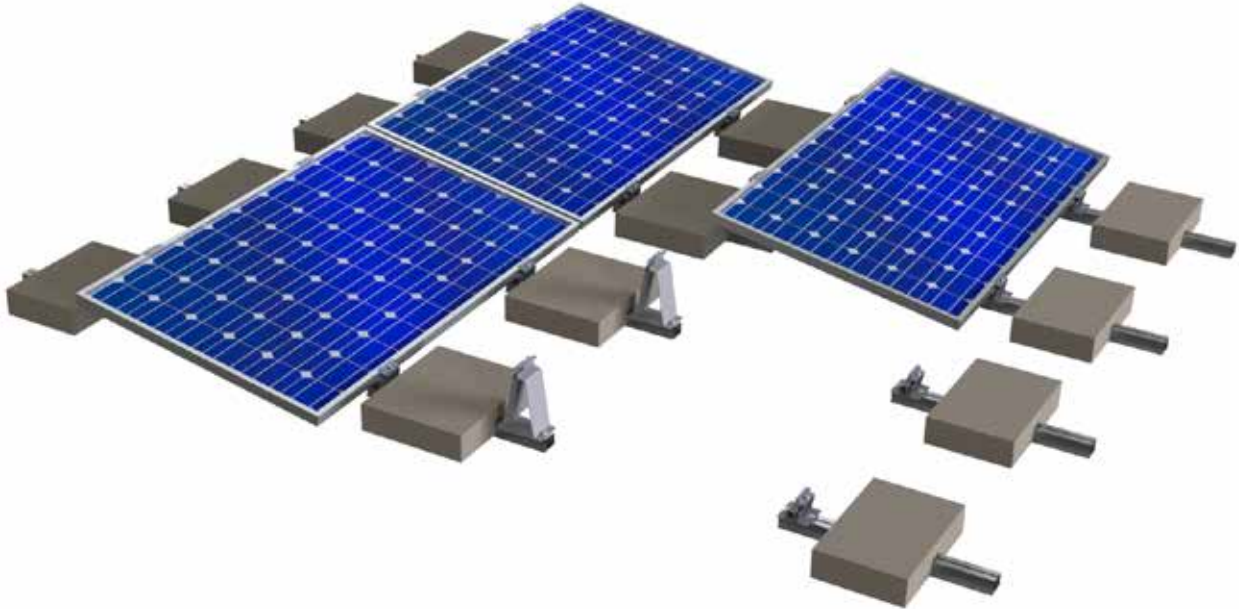
BALLAST



BALLAST

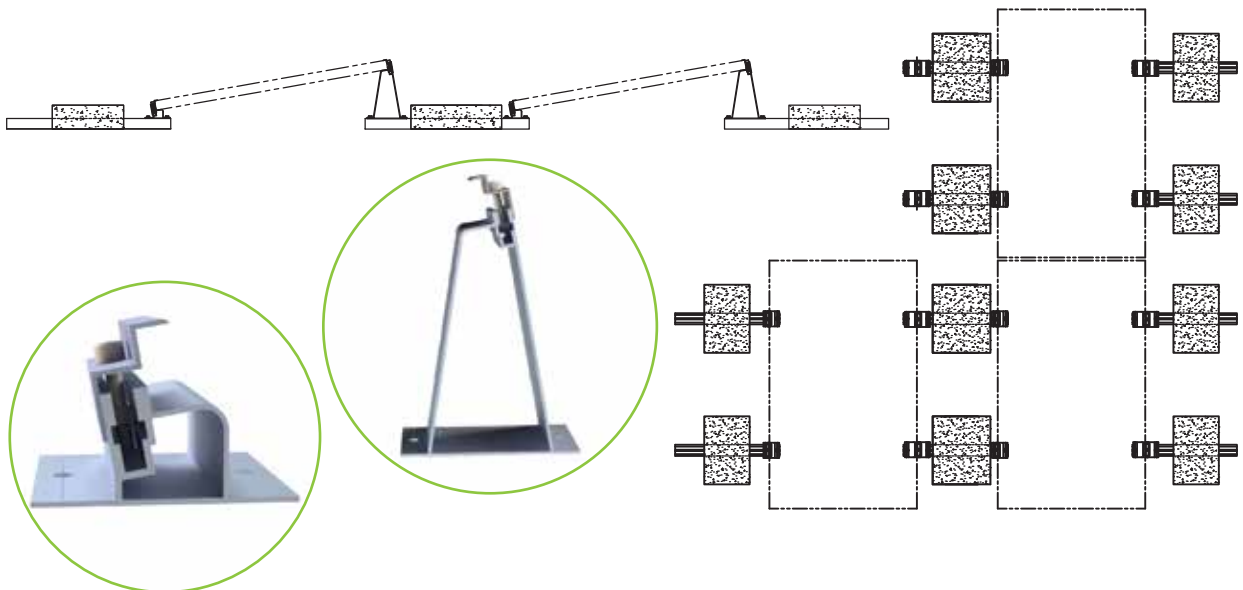
PSI MERCURY

Single Landscape Low Height Mounting Systems - With Ballast



System Arrangement

- This mounting system can be designed and installed as per the available Roof Top area.
- For large scale projects customization of tables could be done.
- The Aluminum grade used is AA 6063 T6 with Silver Matt Anodising up to 15 - 18 microns.
- The fasteners are used as per CLASS A2 - 70.
- This is a low height 10 Degrees System.
- The distance between the two rows will be according to the panel dimensions.
- TUV Certified Mounting Systems.



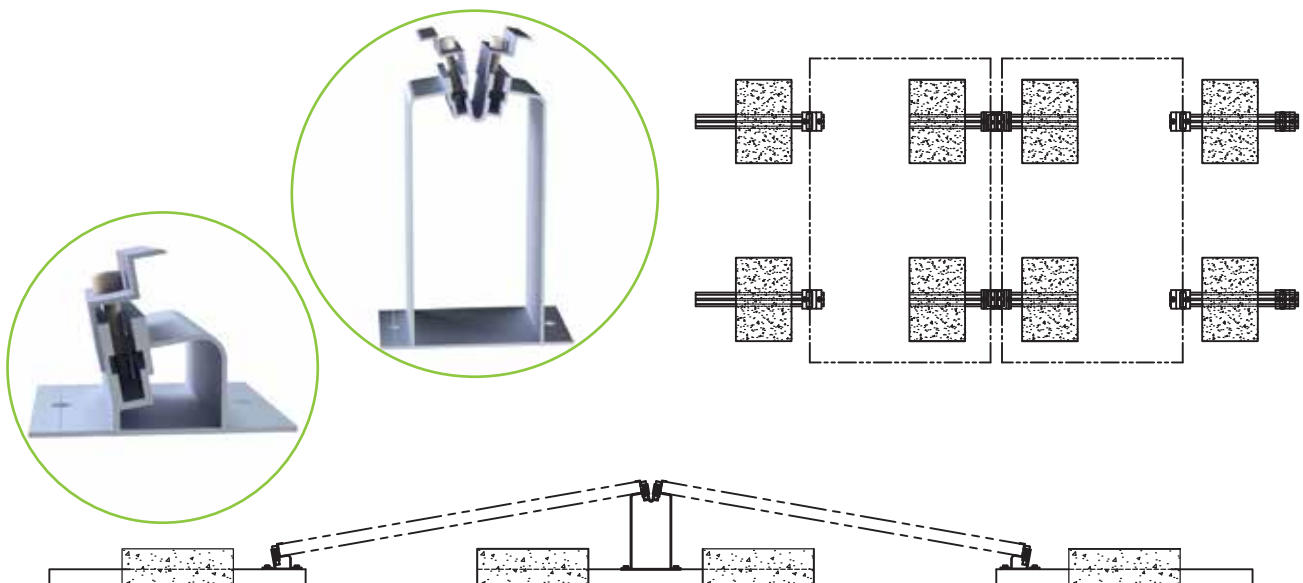
PSI HYDRA

East West Single Landscape Low Height Mounting Systems - With Ballast



System Arrangement

- This mounting system can be designed and installed as per the available Roof Top area.
- For large scale projects customization of tables could be done.
- The Aluminum grade used is AA 6063 T6 with Silver Matt Anodising up to 15 - 18 microns.
- The fasteners are used as per CLASS A2 - 70.
- This is the East West low height 10 Degrees System.
- The distance between the two rows will be according to the panel dimensions.
- TUV Certified Mounting Systems.



FLAT ROOF LOW HEIGHT MOUNTED SYSTEMS

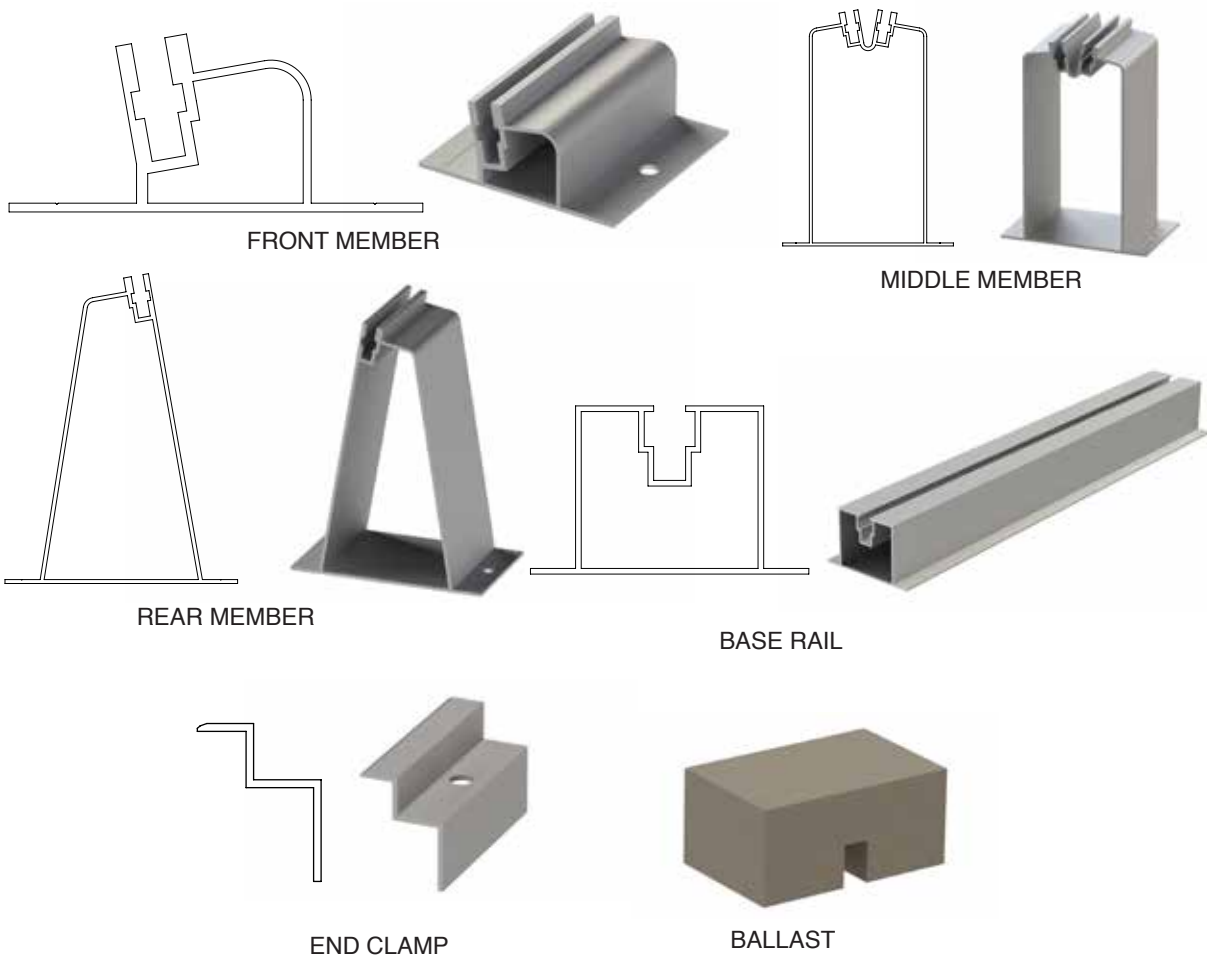
Profile Details & System Advantages

The above structures are ideal for Roof Top installations.

They are simple to assemble and provide high resistance to wind loads according to Euro Codes 1, 3, 8 and 9 and Dubai Municipality Seismic Design Loads.

Advantages:

- Simple Structure – Easy to install
- High Stability
- Economical Solution
- Quick Installation
- Base Rail ensures perfect and proper alignment
- Non Penetrative System
- The System can be relocated
- TUV Certified Systems



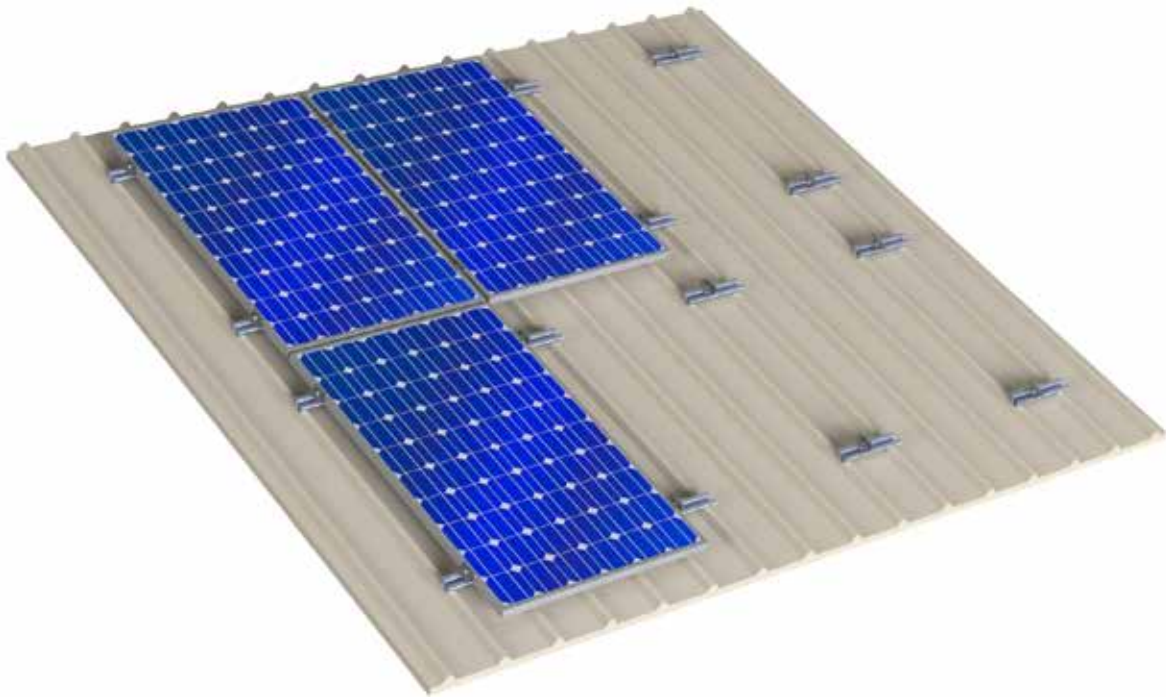


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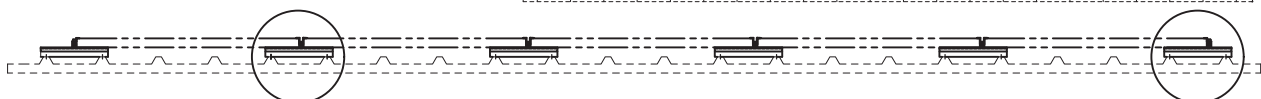
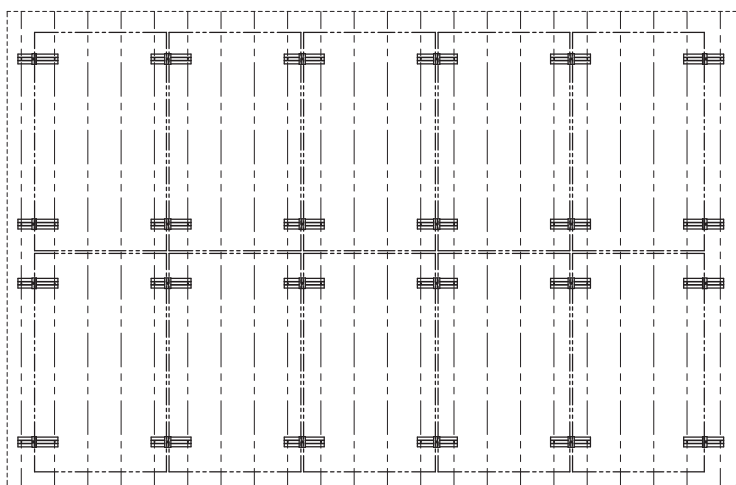
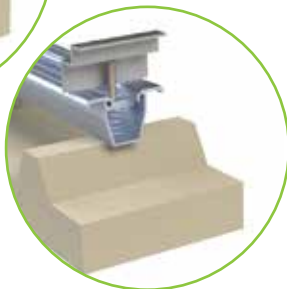
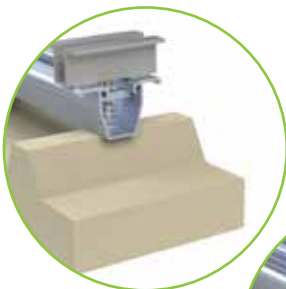
PSI ASTRO

ECO Portrait System



System Arrangement

- This mounting system can be designed and installed parallel to the Roof Top.
- For large scale projects customization of tables could be done.
- The Aluminum grade used is AA 6063 T6 with Silver Matt Anodising up to 15 - 18 microns.
- The fasteners are used as per CLASS A2 - 70.
- The Vertical distance is defined by the module dimensions of the Solar PV System.
- The Horizontal distance is defined by the type of the corrugated metal sheet and the type of the panel.
- This is a economical solution ideal for rapid installation on Portrait Orientation.
- TUV Certified Mounting Systems.



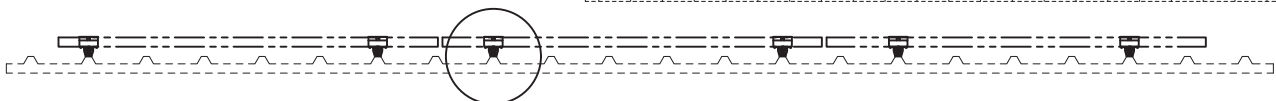
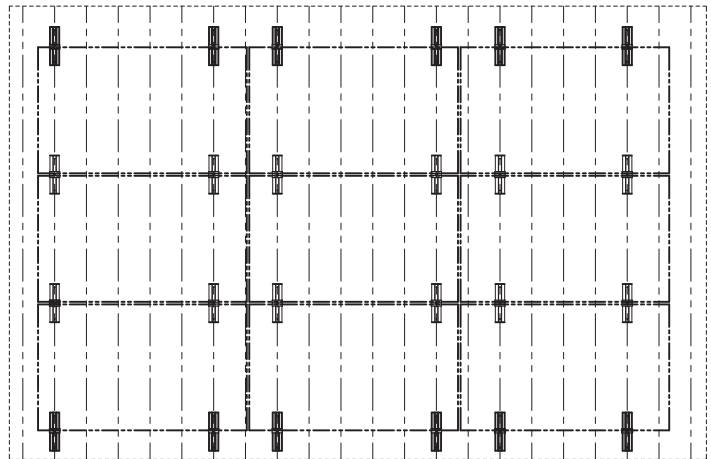
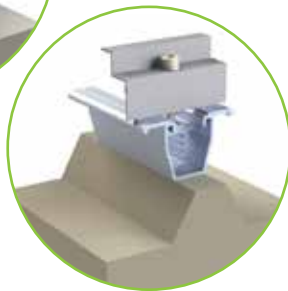
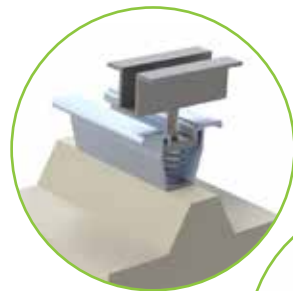
PSI ASTRO

ECO Landscape System



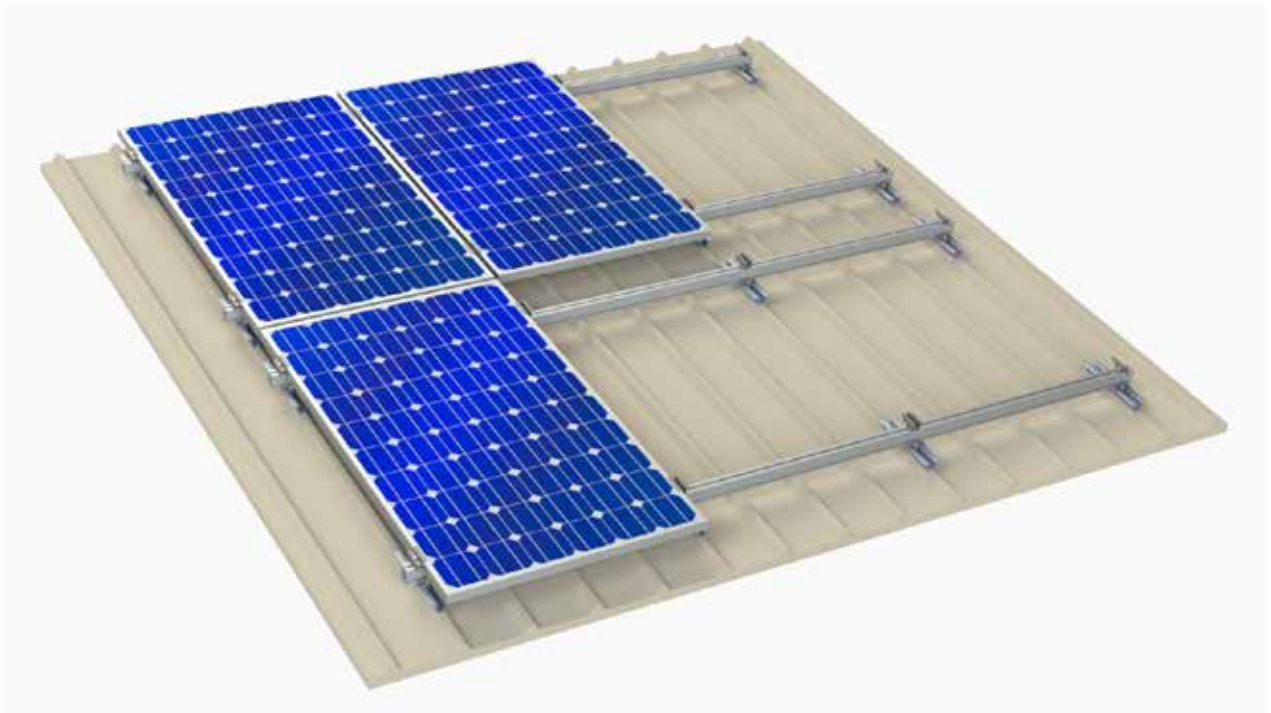
System Arrangement

- This mounting system can be designed and installed parallel to the Roof Top.
- For large scale projects customization of tables could be done.
- The Aluminum grade used is AA 6063 T6 with Silver Matt Anodising up to 15 - 18 microns.
- The fasteners are used as per CLASS A2 - 70.
- The Vertical distance is defined by the module dimensions of the Solar PV System.
- The Horizontal distance is defined by the type of the corrugated metal sheet and the type of the panel.
- This is a economical solution ideal for rapid installation on Landscape Orientation.
- TUV Certified Mounting Systems.



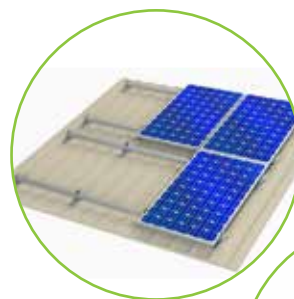
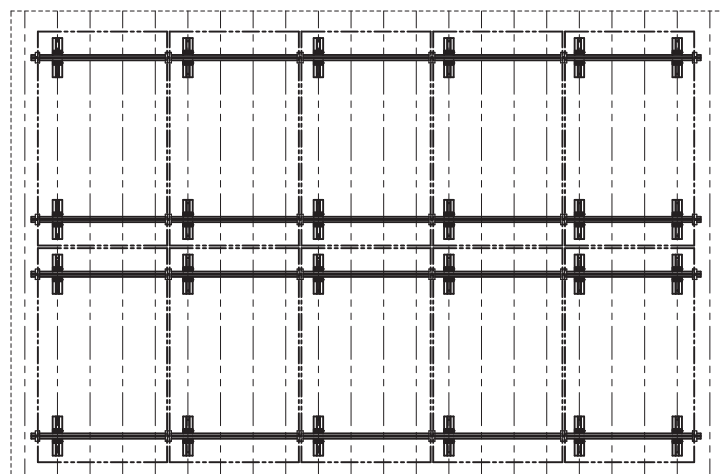
PSI GALAXY

Rail Portrait System



System Arrangement

- This mounting system can be designed and installed parallel to the Roof Top.
- For large scale projects customization of tables could be done.
- The Aluminum grade used is AA 6063 T6 with Silver Matt Anodising up to 15 - 18 microns.
- The fasteners are used as per CLASS A2 - 70.
- The Vertical distance is defined by the module dimensions of the Solar PV System.
- The Horizontal distance is defined by the type of the corrugated metal sheet and the type of the panel.
- The installation of the Base and Rail permits better air circulation and easy alignment on portrait orientation.
- TUV Certified Mounting Systems.



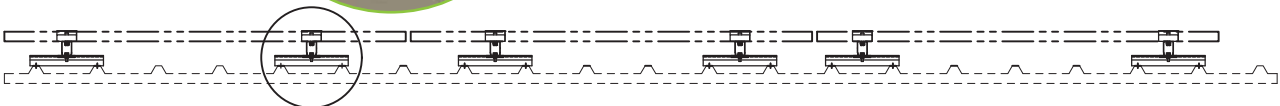
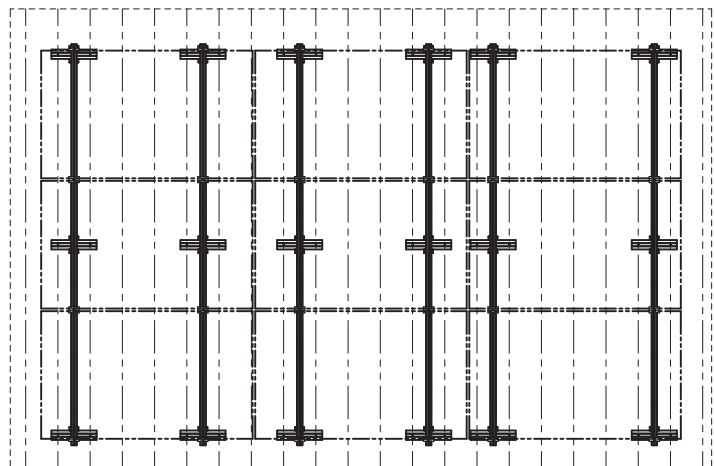
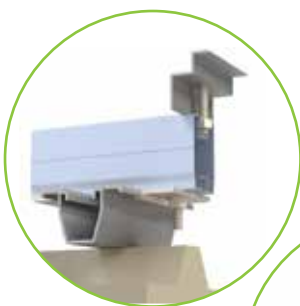
PSI GALAXY

Rail Landscape System



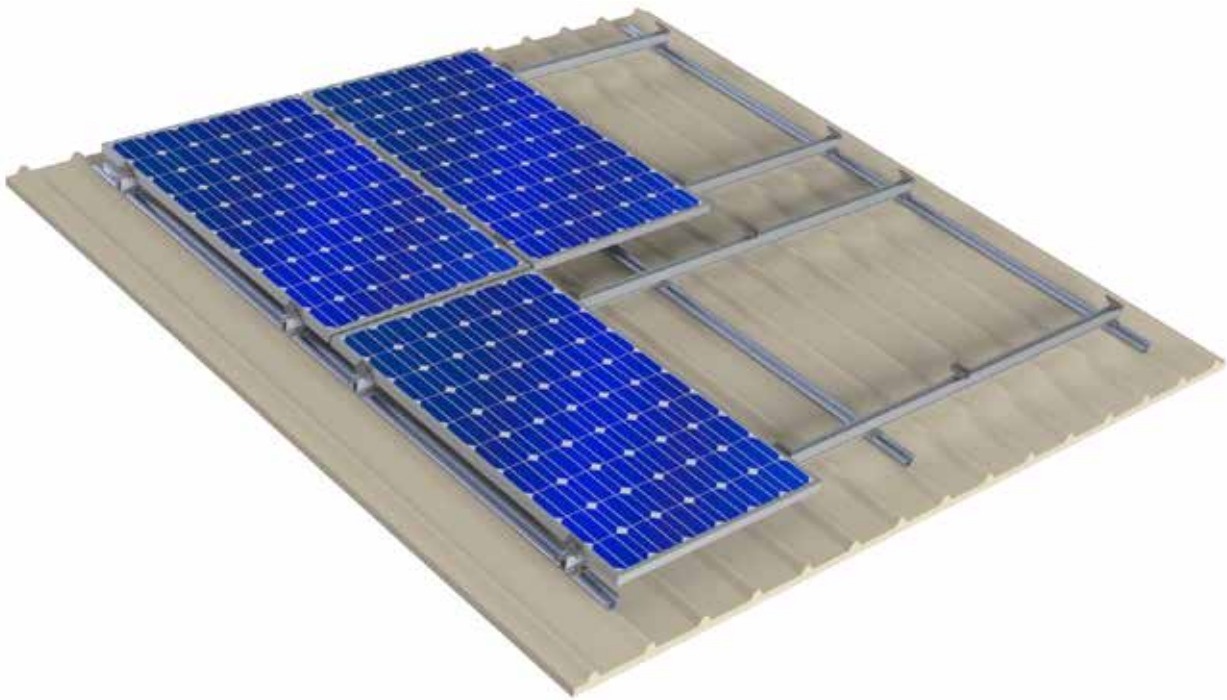
System Arrangement

- This mounting system can be designed and installed parallel to the Roof Top.
- For large scale projects customization of tables could be done.
- The Aluminum grade used is AA 6063 T6 with Silver Matt Anodising up to 15 - 18 microns.
- The fasteners are used as per CLASS A2 - 70.
- The Vertical distance is defined by the purlin spacing of the Super Structure of the building.
- The Horizontal distance is defined by the type of the corrugated metal sheet and the type of the panel.
- The installation of the Base and Rail permits better air circulation and easy alignment on portrait orientation.
- TUV Certified Mounting Systems.



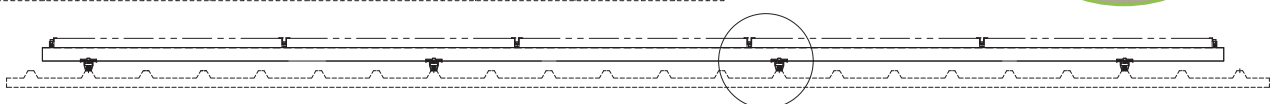
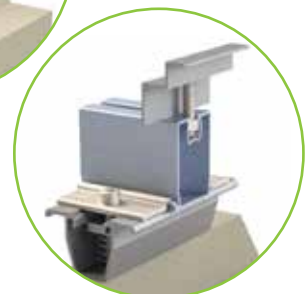
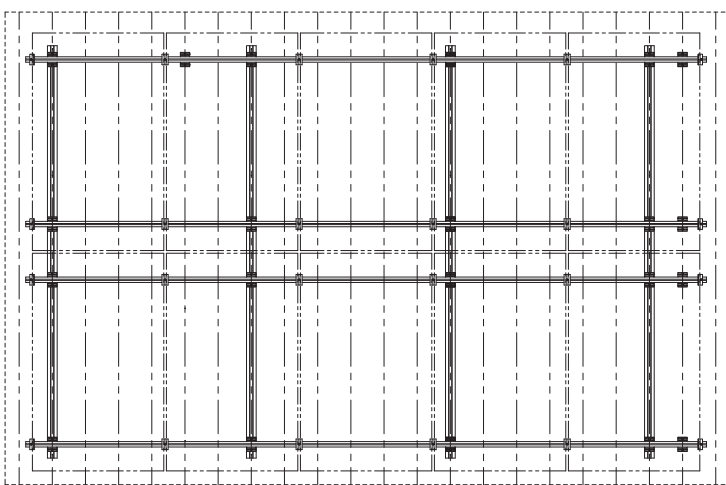
PSI SIGMA

Cross Rail Portrait System



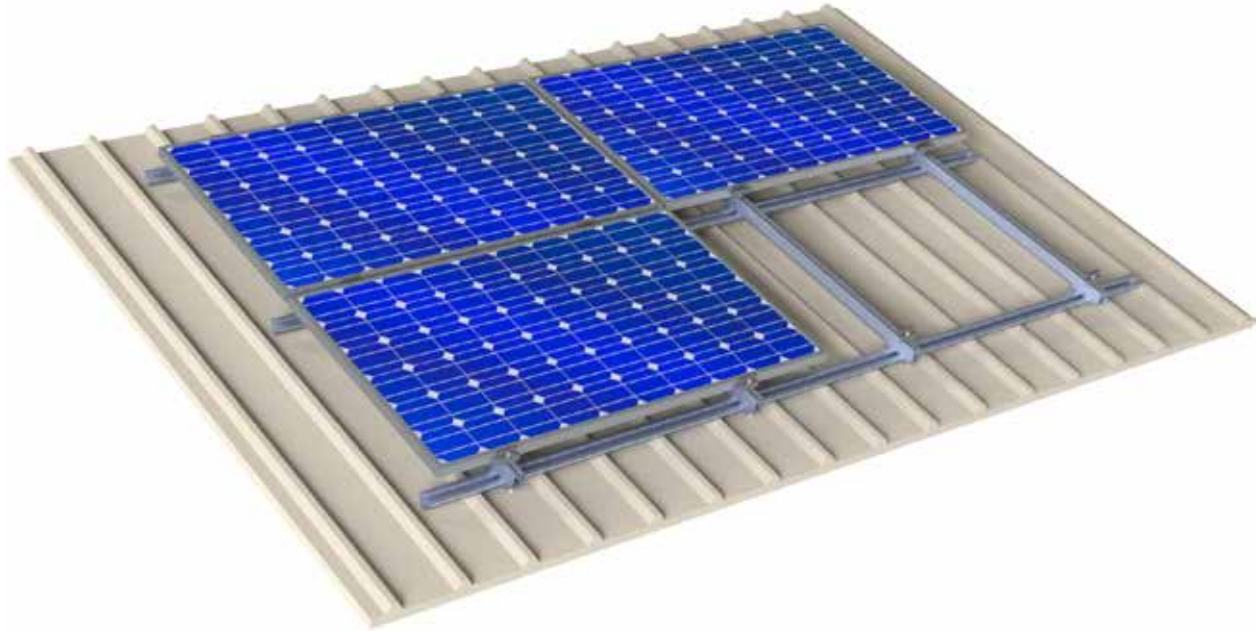
System Arrangement

- This mounting system can be designed and installed parallel to the Roof Top.
- For large scale projects customization of tables could be done.
- The Aluminum grade used is AA 6063 T6 with Silver Matt Anodising up to 15 - 18 microns.
- The fasteners are used as per CLASS A2 - 70.
- The Vertical distance is defined by the module dimensions of the Solar PV System.
- The Horizontal distance is defined by the type of the corrugated metal sheet and the type of the panel.
- The installation of the Base and Rail permits better air circulation and easy alignment on portrait orientation.
- TUV Certified Mounting Systems.



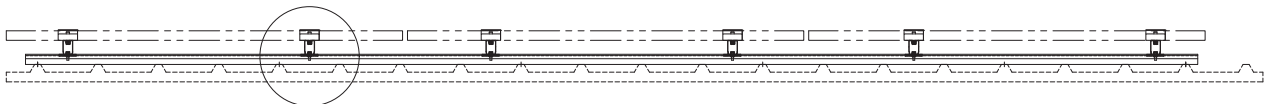
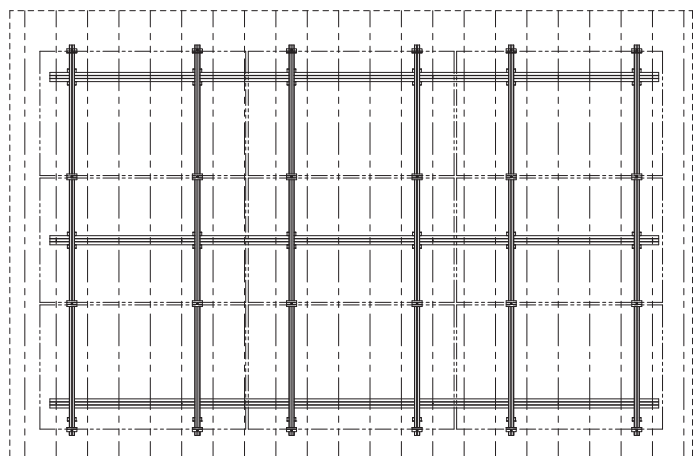
PSI SIGMA

Cross Rail Landscape System



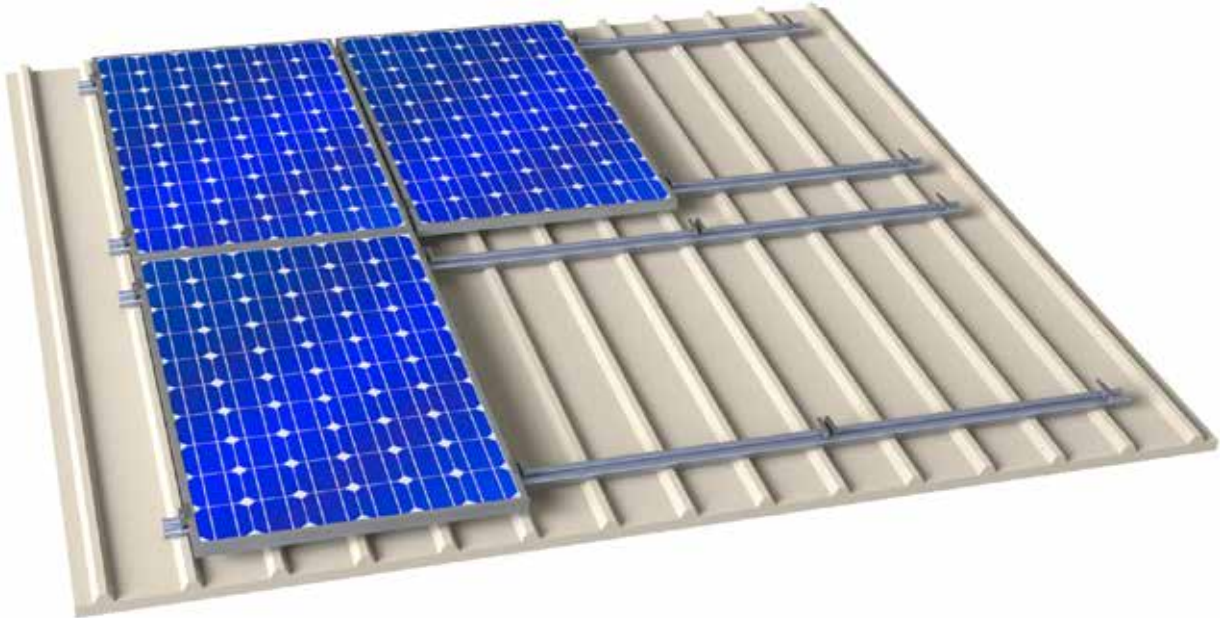
System Arrangement

- This mounting system can be designed and installed parallel to the Roof Top.
- For large scale projects customization of tables could be done.
- The Aluminum grade used is AA 6063 T6 with Silver Matt Anodising up to 15 - 18 microns.
- The fasteners are used as per CLASS A2 - 70.
- The Vertical distance is defined by the purlin spacing of the Super Structure of the building.
- The Horizontal distance is defined by the type of the corrugated metal sheet and the type of the panel.
- The installation of the Base and Rail permits better air circulation and easy alignment on portrait orientation.
- TUV Certified Mounting Systems.



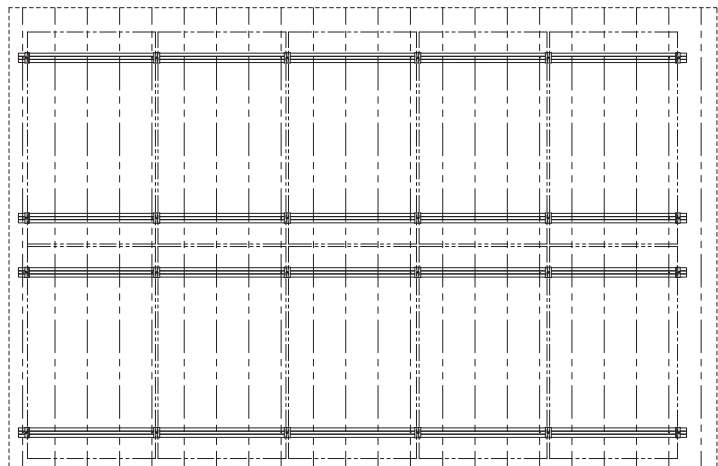
PSI ALPHA

Single V Rail Portrait System



System Arrangement

- This mounting system can be designed and installed parallel to the Roof Top.
- For large scale projects customization of tables could be done.
- The Aluminum grade used is AA 6063 T6 with Silver Matt Anodising up to 15 - 18 microns.
- The fasteners are used as per CLASS A2 - 70.
- The Vertical distance is defined by the module dimensions of the Solar PV System.
- The installation of the Horizontal Rail permits rapid installation on portrait orientation.
- TUV Certified Mounting Systems.



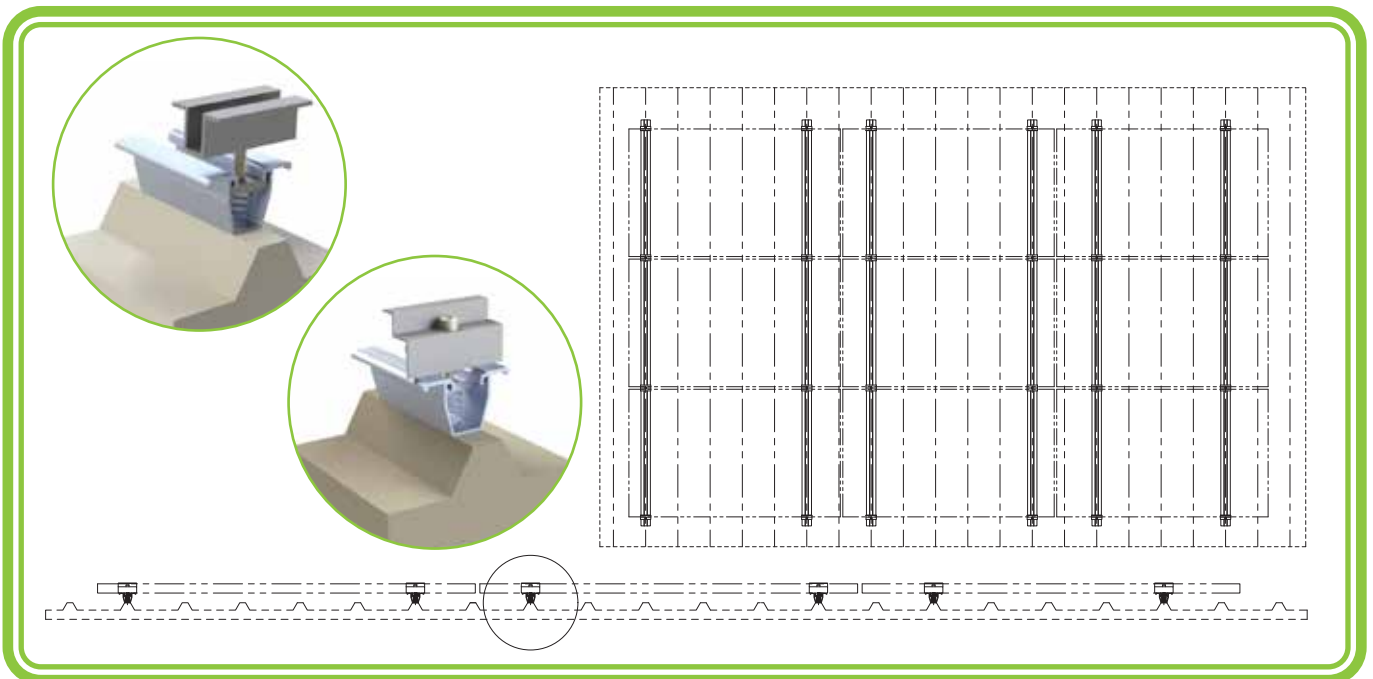
PSI ALPHA

Single V Rail Landscape System



System Arrangement

- This mounting system can be designed and installed parallel to the Roof Top.
- For large scale projects customization of tables could be done.
- The Aluminum grade used is AA 6063 T6 with Silver Matt Anodising up to 15 - 18 microns.
- The fasteners are used as per CLASS A2 - 70.
- The Horizontal distance is defined by the type of the corrugated metal sheet and the type of the panel.
- The installation of the Vertical Rail permits rapid installation on Landscape orientation.
- TUV Certified Mounting Systems.



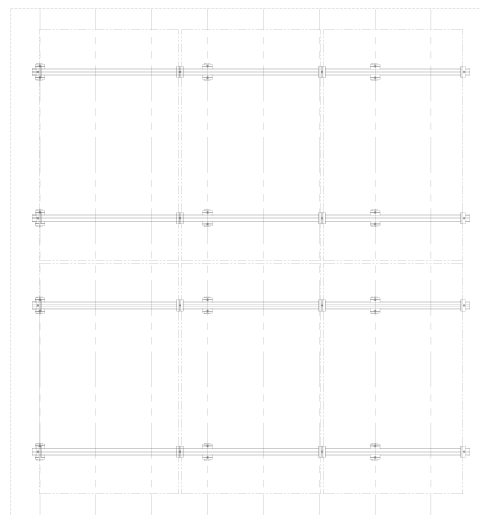
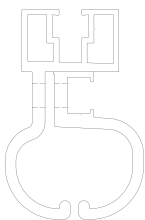
PSI HYDER

Standing Seam Portrait System



System Arrangement

- This mounting system can be used for Standing seam, Round seam and Angle seam roofs without roof penetration.
- This is an economical solution ideal for the rapid installation on Portrait Orientation.
- The Aluminum grade used is AA6063 T6 with Silver Matt Anodizing up to 15-18 microns.
- The fasteners are used as per CLASS A2 – 70.
- The Vertical distance is defined by the module dimensions of the Solar PV System.
- The horizontal distance is defined by the type of standing seam profile and the type of the panel.
- The installation of the Clamp and Rail permits better air circulation and easy alignment for portrait orientation.



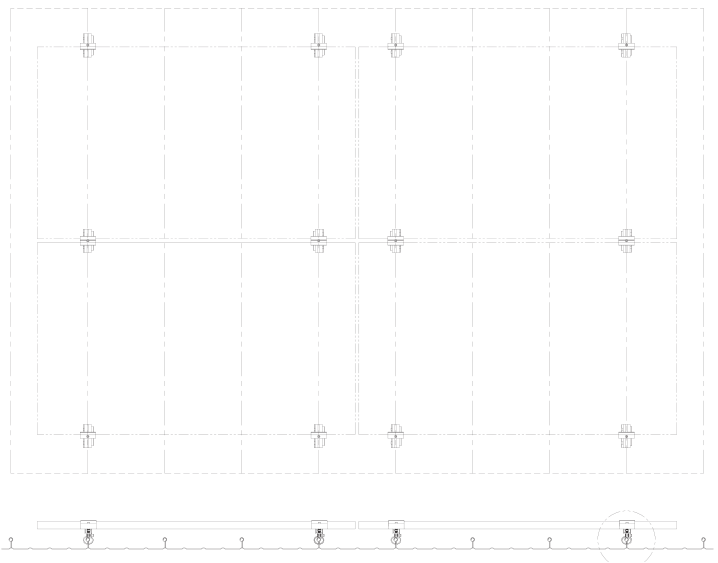
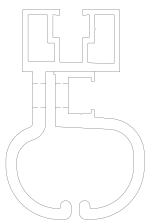
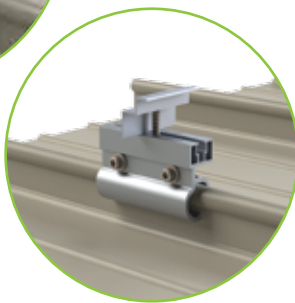
PSI HYDER

Standing Seam Landscape System



System Arrangement

- This mounting system can be used for Standing seam, Round seam and Angle seam roofs without roof penetration.
- This is an economical solution ideal for the rapid installation on Landscape Orientation.
- The Aluminum grade used is AA6063 T6 with Silver Matt Anodizing up to 15-18 microns.
- The fasteners are used as per CLASS A2 – 70.
- The Vertical distance is defined by the module dimensions of the Solar PV System.
- The horizontal distance is defined by the type of standing seam profile and the type of the panel.



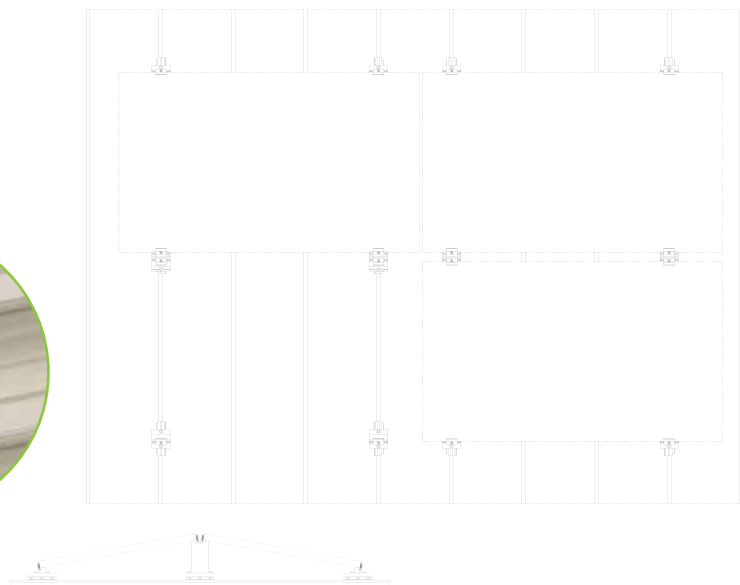
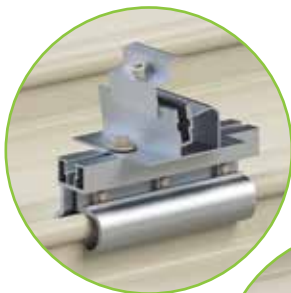
PSI KOLHAI

Standing Seam Low Height Double Landscape System



System Arrangement

- This mounting system can be used for Standing seam, Round seam and Angle seam roofs without roof penetration.
- This is an economical solution ideal for the rapid installation on Landscape Orientation.
- The Aluminum grade used is AA6063 T6 with Silver Matt Anodizing up to 15-18 microns.
- The fasteners are used as per CLASS A2 – 70.
- The Vertical distance is defined by the module dimensions of the Solar PV System.
- The horizontal distance is defined by the type of standing seam profile and the type of the panel.



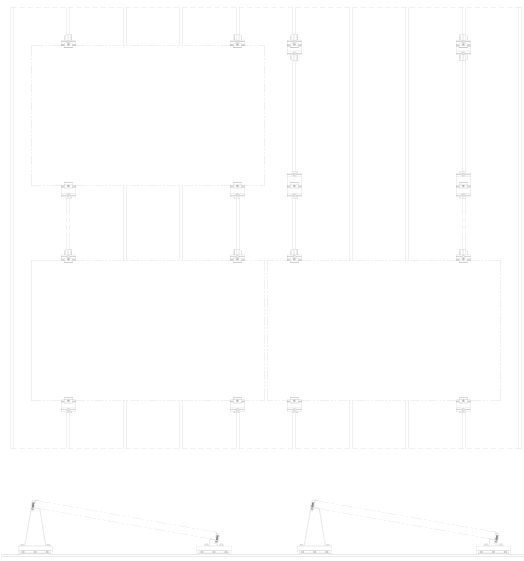
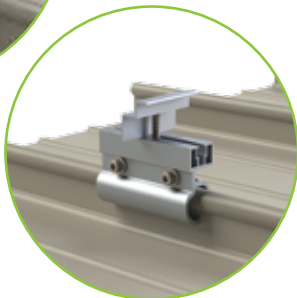
PSI ZABARVAN

Standing Seam Low Height Single Landscape System



System Arrangement

- This mounting system can be used for Standing seam, Round seam and Angle seam roofs without roof penetration.
- This is an economical solution ideal for the rapid installation on Landscape Orientation.
- The Aluminum grade used is AA6063 T6 with Silver Matt Anodizing up to 15-18 microns.
- The fasteners are used as per CLASS A2 – 70.
- The Vertical distance is defined by the module dimensions of the Solar PV System.
- The horizontal distance is defined by the type of standing seam profile and the type of the panel.



INDUSTRIAL ROOF MOUNTED SYSTEMS

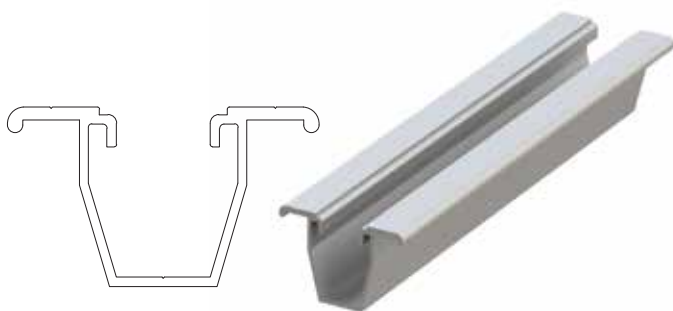
Profile Details & System Advantages

The above structures are ideal for Roof Top installations.

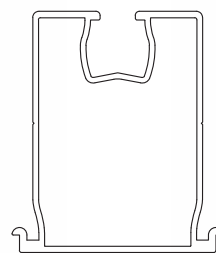
They are simple to assemble and provide high resistance to wind loads according to Euro Codes 1, 3, 8 and 9 and Dubai Municipality Seismic Design Loads.

Advantages:

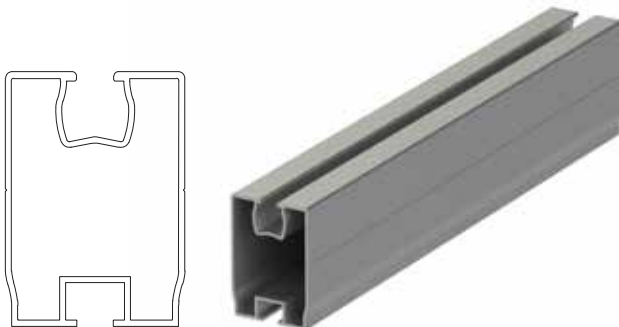
- Simple Structure – Easy to install
- High Stability
- Economical Solution
- Quick Installation
- Easy alignment
- Provision of EPDM Sheet and Sealant ensures leak proof system
- The System can be relocated
- TUV Certified Systems



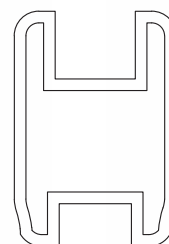
V RAIL



PURLIN

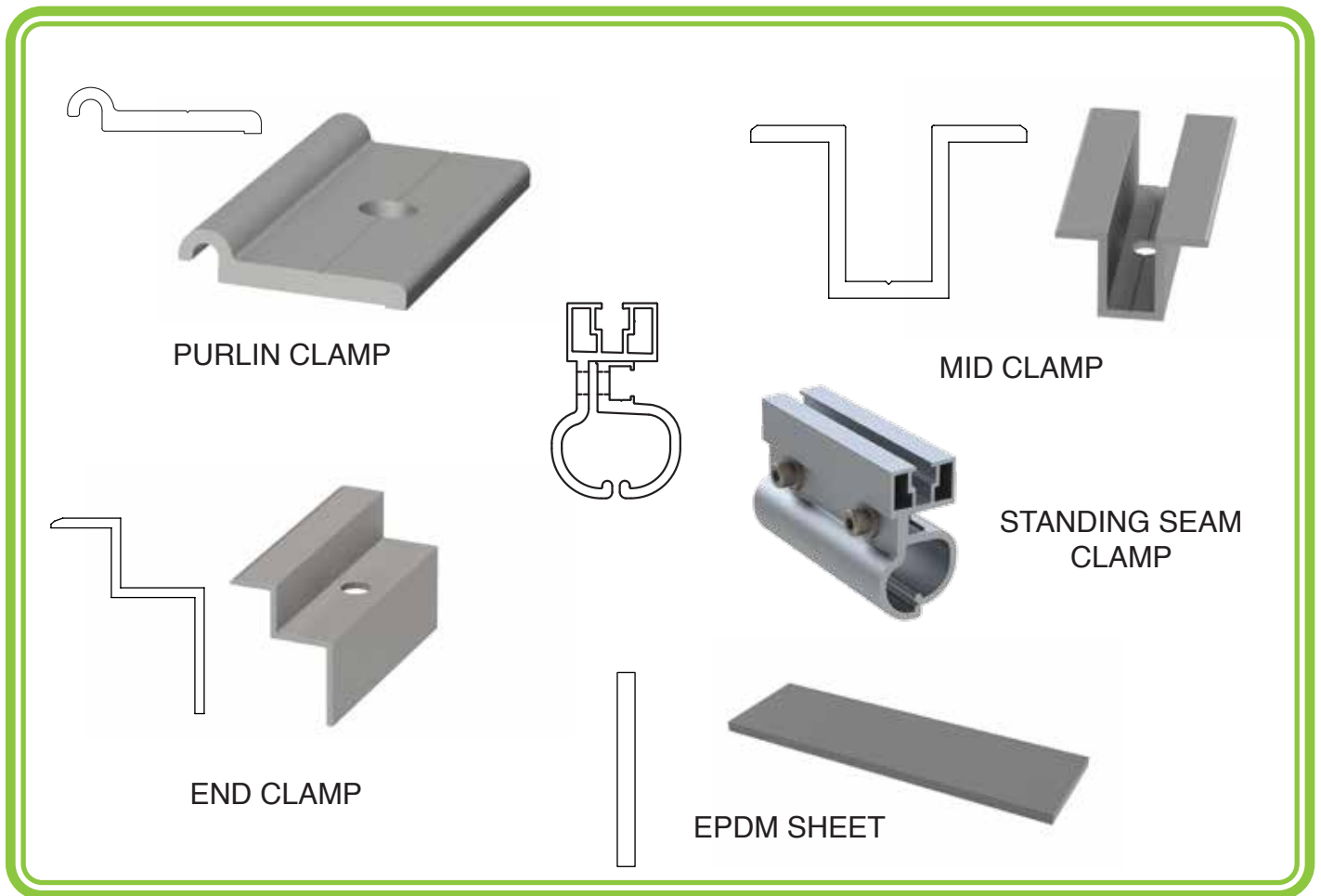


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PURLIN JOINT





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"Excellence in Engineering"



“ We carry the Power”

Power Solution International

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