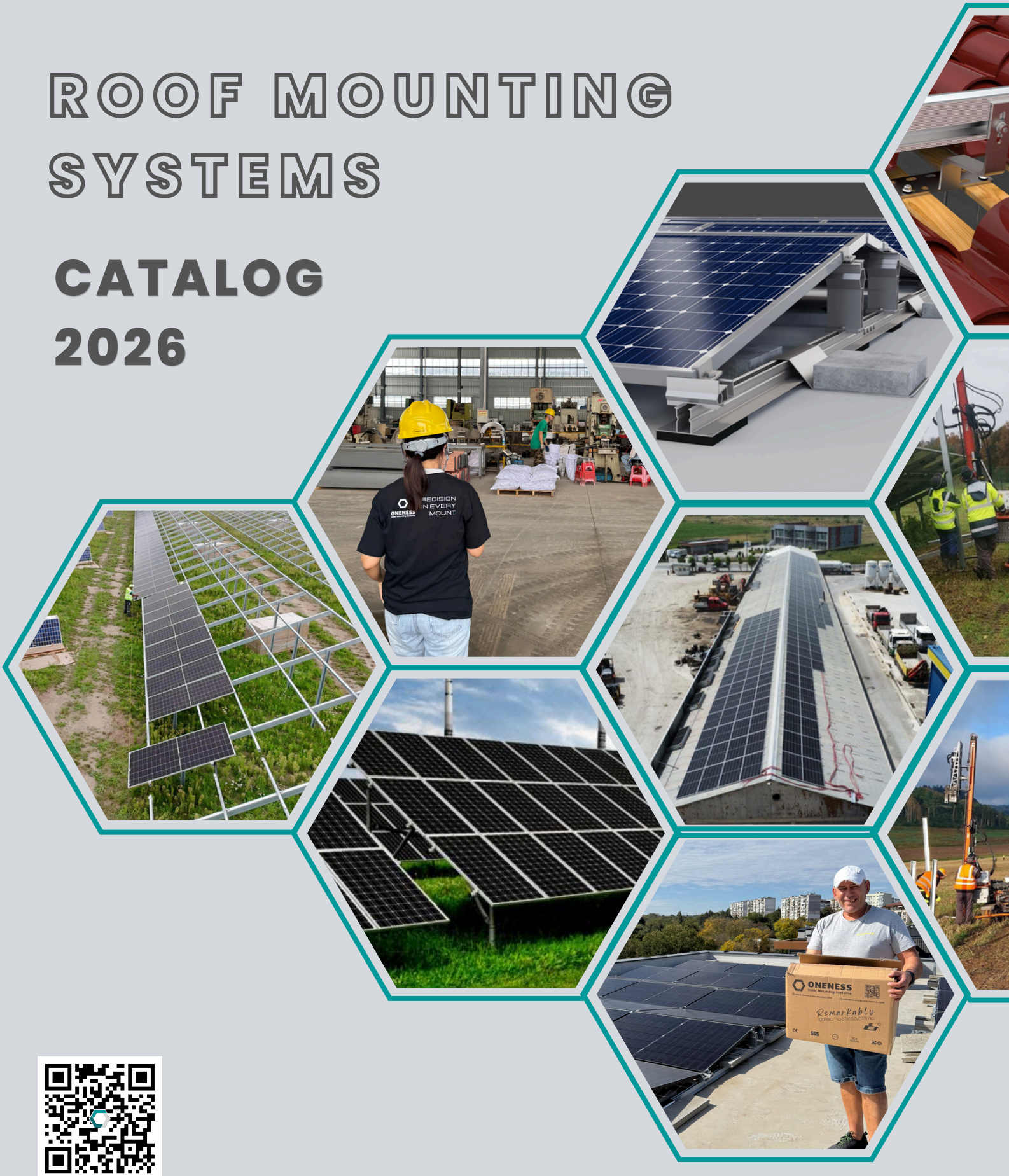
ONENESS
Solar Mounting Systems

Partner In Solar

ROOF MOUNTING SYSTEMS

CATALOG 2026



Visit Us
onenesspvsystems.com

Contact Us
+86 186 2100 6801

COMPANY OVERVIEW

We are dedicated to the solar energy industry, with a **focus on solar mounting systems systems**. We believe that racking structures should be **simple, easy to install, built to last, and ready to perform anywhere in the world.**

ONENESS PV Systems is a team of experienced professionals in engineering, machinery and business development. We operate with administrative and production **facilities in both Bulgaria and China.**



From our early days supplying small rooftop systems to engineering complex ground-mount and large commercial rooftop projects, our passion for precision and efficiency has never faded. We've grown into **a trusted partner for investors, EPCs, distributors and installers across Europe, Africa, Asia, and South America.**





Where We Are Going

Our mission is simple: to keep pushing the boundaries of solar mounting technology, so every project, from a single residential roof to a multi-megawatt solar farm to be completed with **speed, confidence, and quality**.

With ONENESS, you're not just purchasing a product. **You're partnering with a team that understands your challenges, speaks your language, and shares your vision and values for a sustainable future.**



Trust & Credibility

- **We listen:** We design and produce for your needs.
- **We care:** Quality materials, strong engineering, and attention to detail are in everything we make.
- **We support:** From the very first intention to final installation!

Product Range

- **Fixed Steel Ground Racking Strictures**
- **Fixed Aluminum Ground Racking Structures**
- **Metal Roof Mounting Systems**
- **Flat Roof Solar Mounting Systems**
- **Tile roof Solar Mounting Systems**

PROJECTS



ONENESS Solar Mounting Systems
Project name: Concrete workshop (Kosovo) | U-tye Rail System
ONENESS PV Systems info@onenesspvsystems.com



ONENESS Solar Mounting Systems
Project name: Roof (Nigeria) | L-Foot System
ONENESS PV Systems info@onenesspvsystems.com Web



ONENESS Solar Mounting Systems
ONENESS PV Systems
info@onenesspvsystems.com
Web



ONENESS Solar Mounting Systems
ONENESS PV Systems
info@onenesspvsystems.com
Web

PROJECTS


ONENESS
Solar Mounting Systems
ONENESS PV Systems
info@onenesspvsystems.com
Web


ONENESS
Solar Mounting Systems
ONENESS PV Systems
info@onenesspvsystems.com
Web


ONENESS
Solar Mounting Systems
See all Systems and Project Refernces at
www.onenesspvsystems.com
Contact Us
+86 186 2100 6801


ONENESS
Solar Mounting Systems
See all Systems and Project Refernces at
www.onenesspvsystems.com
Contact Us: +86 186 2100 6801
info@onenesspvsystems.com

PROJECTS


ONENESS
Solar Mounting Systems
See all Systems and Project Refernces at
www.onenesspvsystems.com
Contact Us: +86 186 2100 6801
info@onenesspvsystems.com


ONENESS
Remarkably
ONENESS
Solar Mounting Systems
ONENESS PV Systems
info@onenesspvsystems.com
Web


ONENESS
Solar Mounting Systems
See all Systems and Project Refernces at
www.onenesspvsystems.com
Contact Us: +86 186 2100 6801
info@onenesspvsystems.com


ONENESS
Solar Mounting Systems
ONENESS PV Systems
info@onenesspvsystems.com
Web

PROJECTS


ONENESS
Solar Mounting Systems
See all Systems and Project Refernces at
www.onenesspvsystems.com
Contact Us: +86 186 2100 6801
info@onenesspvsystems.com


ONENESS
Solar Mounting Systems
See all Systems and Project Refernces at
www.onenesspvsystems.com
Contact Us: +86 186 2100 6801
info@onenesspvsystems.com


ONENESS
Solar Mounting Systems
See all Systems and Project Refernces at
www.onenesspvsystems.com
Contact Us: +86 186 2100 6801
info@onenesspvsystems.com


ONENESS
Solar Mounting Systems
See all Systems and Project Refernces at
www.onenesspvsystems.com
Contact Us: +86 186 2100 6801
info@onenesspvsystems.com

PROJECTS

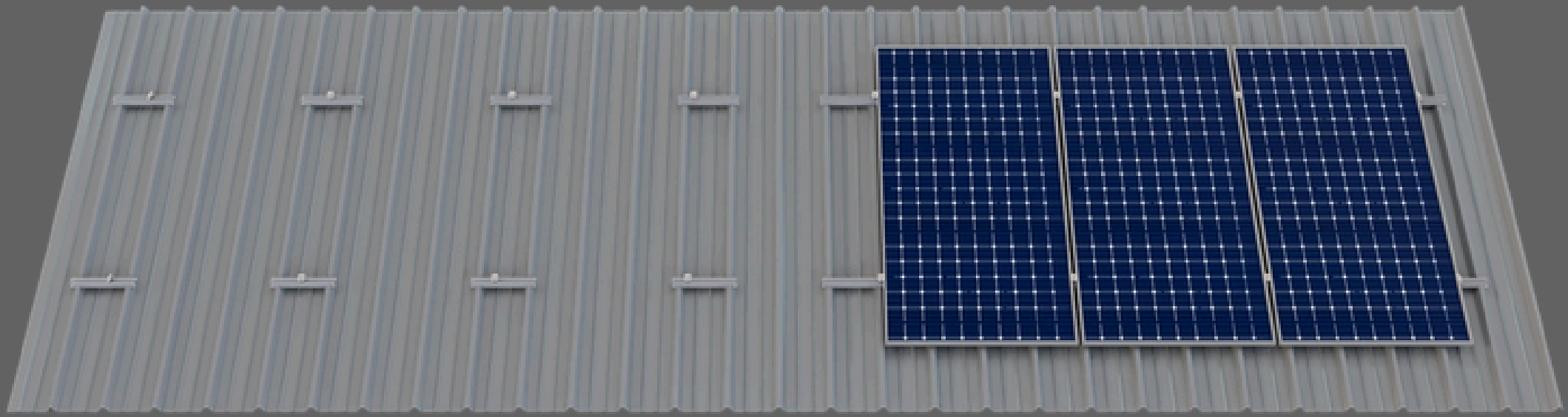

ONENESS
Solar Mounting Systems
See all Systems and Project Refernces at
www.onenesspvsystems.com
Contact Us: +86 186 2100 6801
info@onenesspvsystems.com


ONENESS
Solar Mounting Systems
See all Systems and Project Refernces at
www.onenesspvsystems.com
Contact Us: +86 186 2100 6801
info@onenesspvsystems.com


ONENESS
See all Systems and Project Refernces at
www.onenesspvsystems.com
Contact Us
+86 186 2100 6801


ONENESS
Solar Mounting Systems
See all Systems and Project Refernces at
www.onenesspvsystems.com
Contact Us: +86 186 2100 6801
info@onenesspvsystems.com

Corrugated Trapezoidal Sheet Metal Roof Mounting Systems

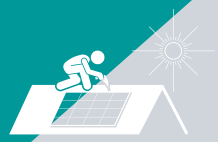


OPVS-MRS-30

ONENESS PV MINI RAIL SYSTEM



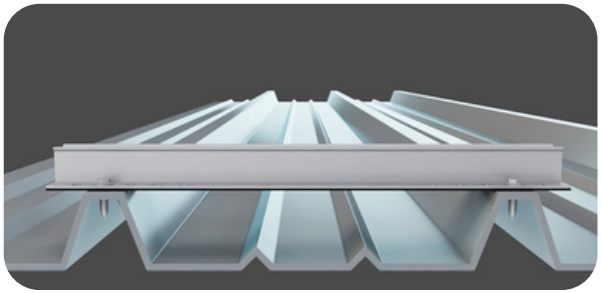
Remarkably
QUICK INSTALLATION



CE SGS ALU 304 STAINLESS STEEL 12 YEARS WARRANTY

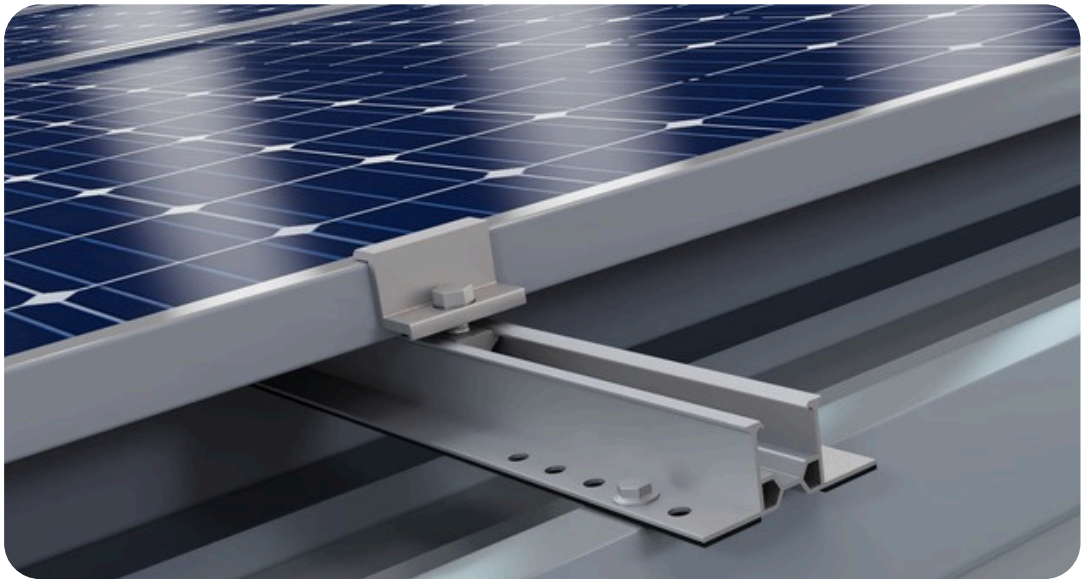
Product Code:
OPVS-MRS-30

Mini rail system for PV mounting on trapezoidal sheet metal roofing



Item	Quantity	Material	Specification
Mini Rail	1	AL 6005-T5	L385mm
Self Drilling Screw	4	SUS 410	5.5*30 / 5.5*40

- ENSURES LONGEVITY AND CORROSION RESISTANCE
- PROVIDES FLEXIBILITY IN DESIGN AND CONFIGURATION
- COMPATIBLE WITH A LARGE VARIETY OF METAL ROOFS

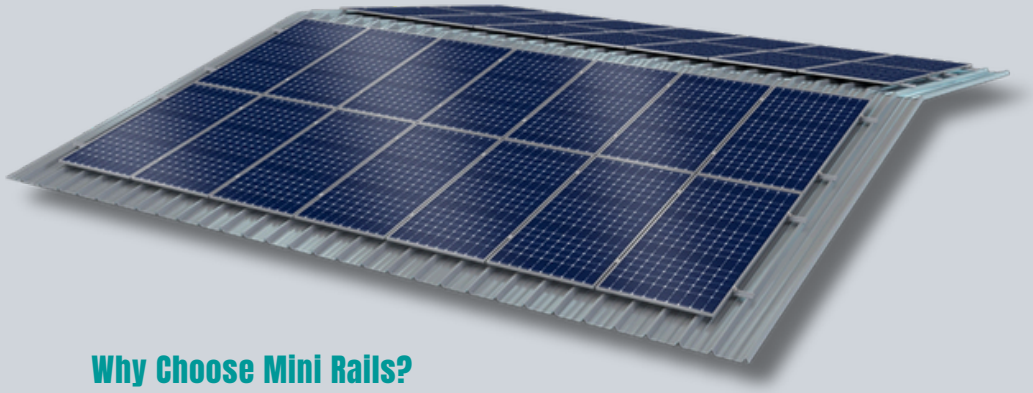


Visit Us
onenesspvsystems.com

SHANGHAI ONENESS TECH. CO., LTD.

Email Us
info@onenesspvsystems.com

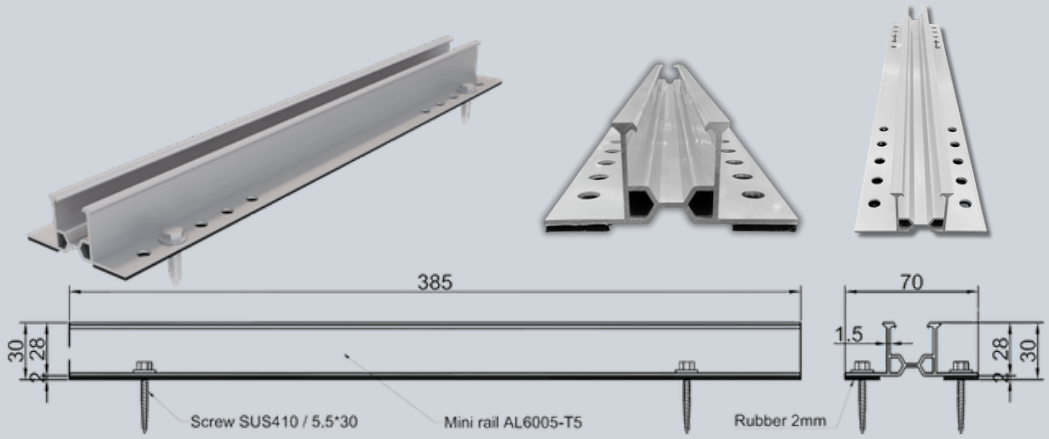
Contact Us
+86 186 2100 6801



Why Choose Mini Rails?

- **Faster Installation:** Compact rails and self-tapping screws allow for quick mounting, reducing labor time.
- **Lower Costs:** Less material compared to full-length rails means significant savings without compromising safety.
- **Application:** Perfectly suited for trapezoidal and corrugated metal roofs, supporting **PORTRAIT** module layouts.

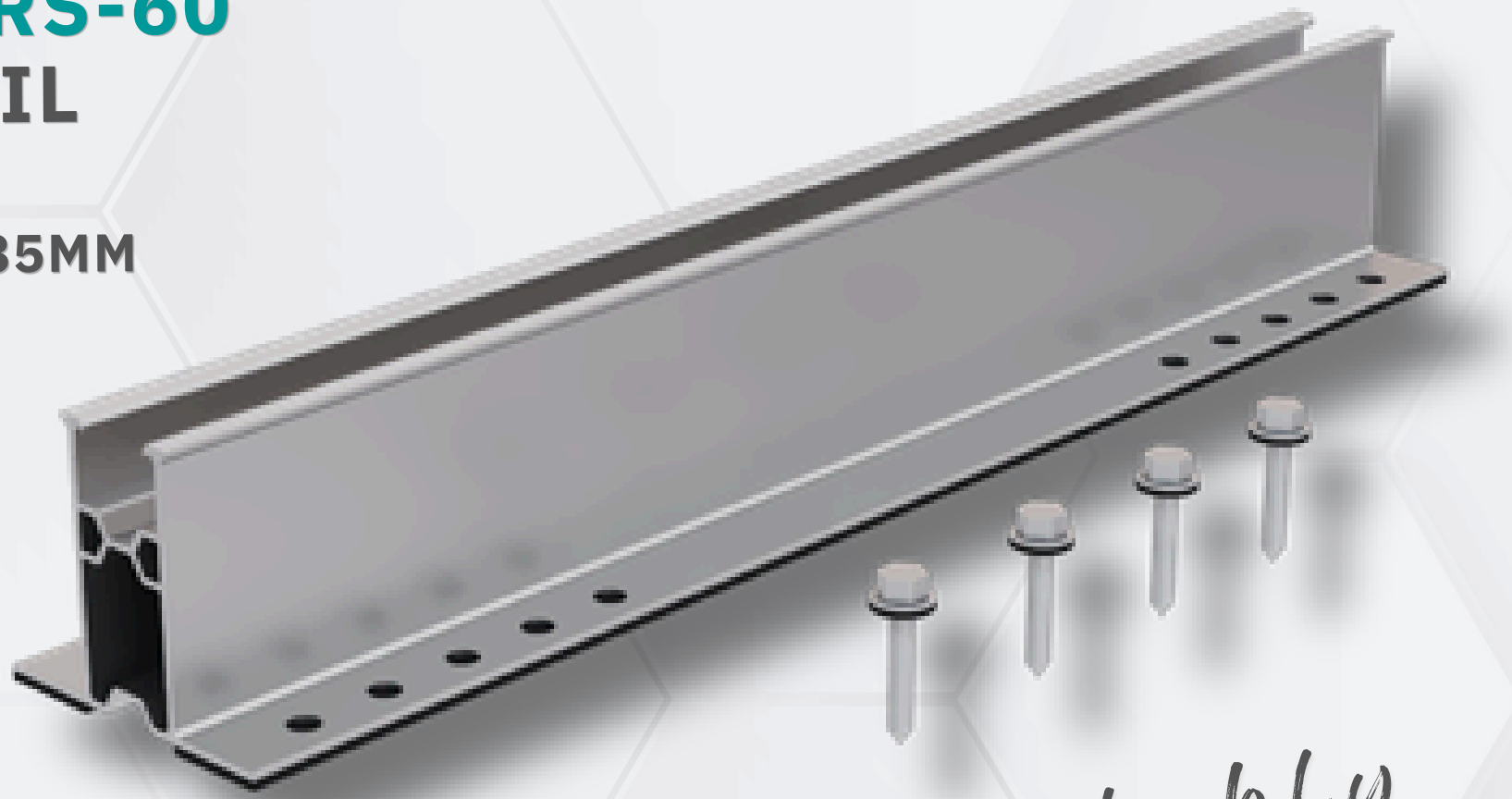
With its **combination of strength, speed, and savings**, the ONENESS U-Type Rail System is the ideal choice for installers and project developers looking for an effortless solar mounting solution for metal roofs.



Parameter	Specification
Application	Metal sheet roofs, trapezoidal roofs, corrugated tin roofs
Function	Direct mounting of solar panels without full-length rails
Material	Extruded Aluminum AL 6005-T5 (Anodized ≥15μm) + Stainless Steel Fasteners (SUS 304 / SUS 410)
Design	Compact rail profile (length options: 200–500 mm) for efficient module fixing
Surface Treatment	Anodized aluminum for enhanced corrosion resistance
Fixation Method	Self-tapping screws or hanger bolts with EPDM sealing washers
Load Capacity	Designed to withstand wind & snow loads according to EN 1991, AS/NZS 1170
Durability	25+ years service life in standard environmental conditions
Advantages	Lightweight, cost-effective, reduced material usage, and faster installation
Compatibility	Suitable for framed PV modules; compatible with universal mid & end clamps

OPVS-MRS-60
MINI RAIL

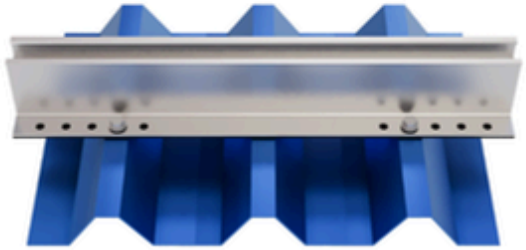
H60MM / L385MM

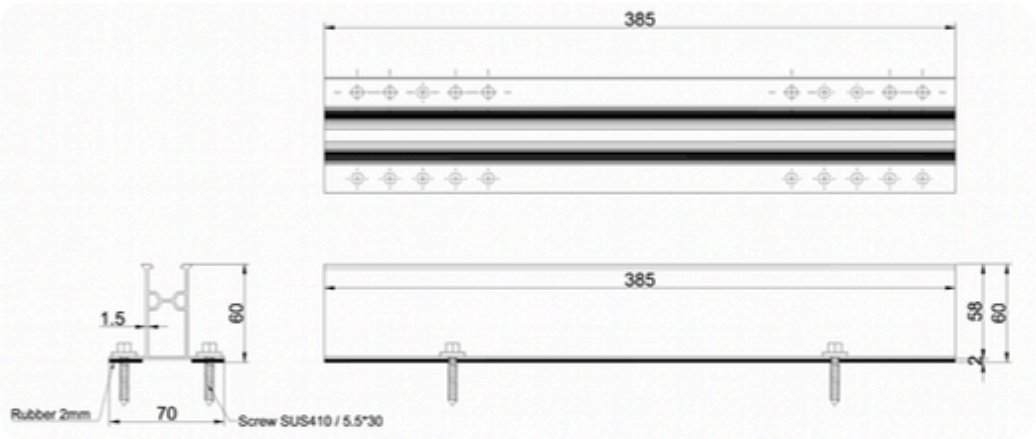


Remarkably
QUICK INSTALLATION

Product Code:
OPVS-MRS-60

Mini rail system for PV mounting on trapezoidal sheet metal roofing

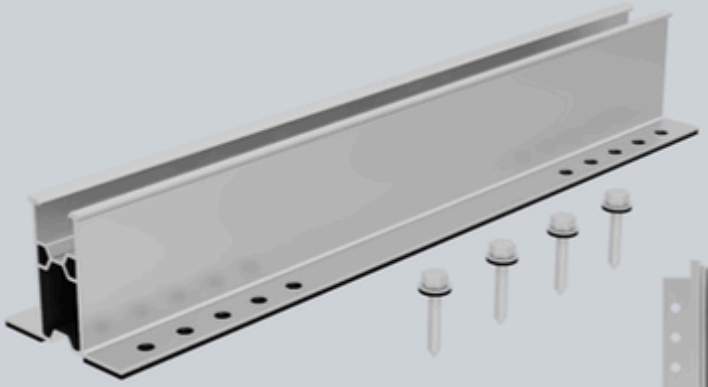


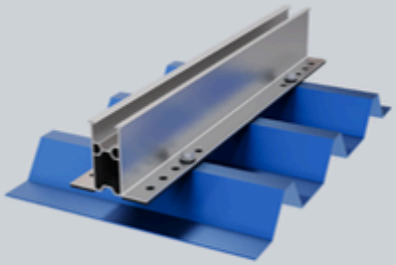


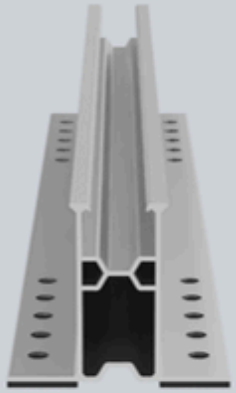


Specification

ONENESS
Solar Mounting Systems





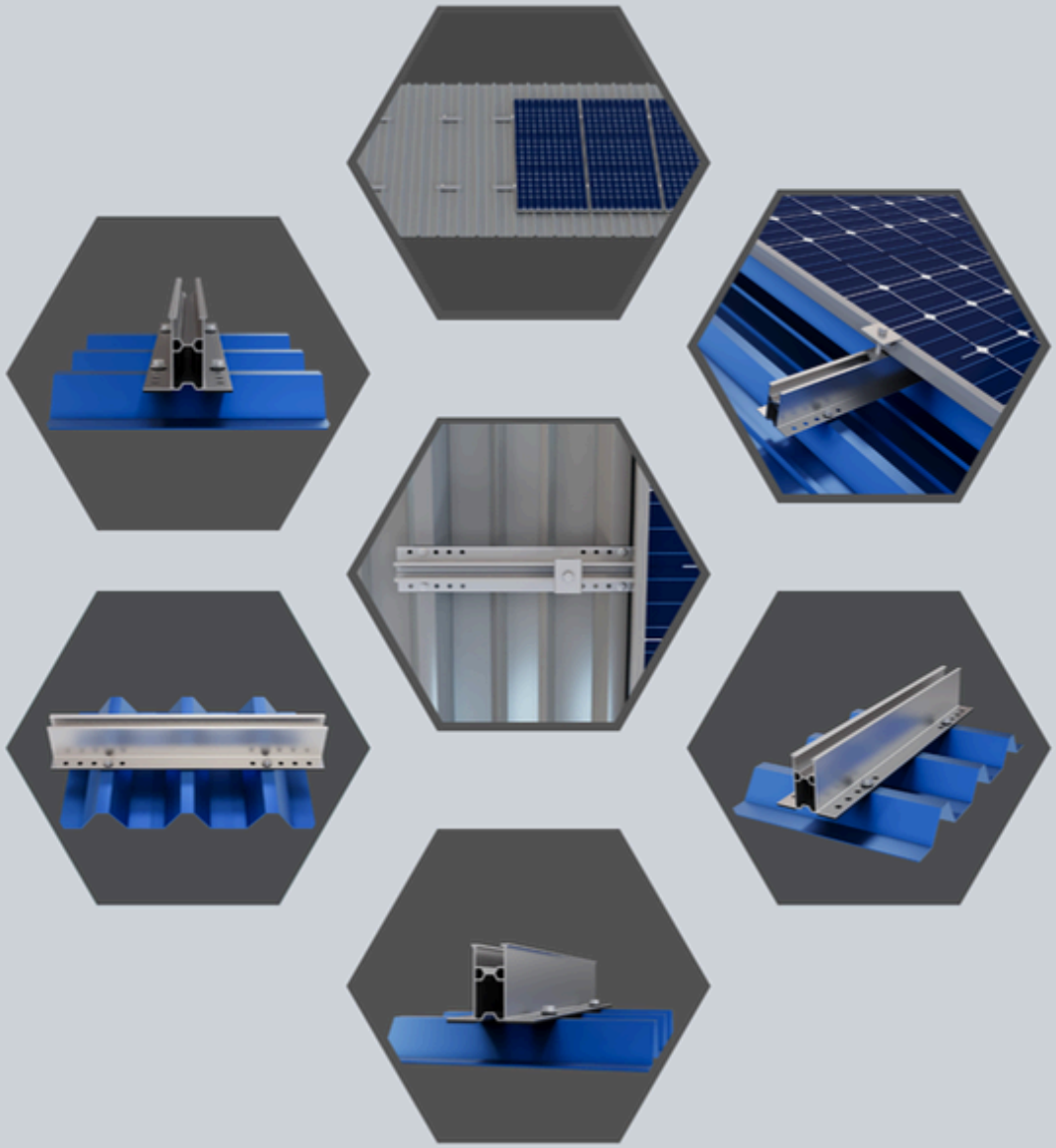




Item	Quantity	Material	Specification
Mini Rail	1	AL 6005-T5	L385mm
Self Drilling Screw	4	SUS 410	5.5*30 / 5.5*40

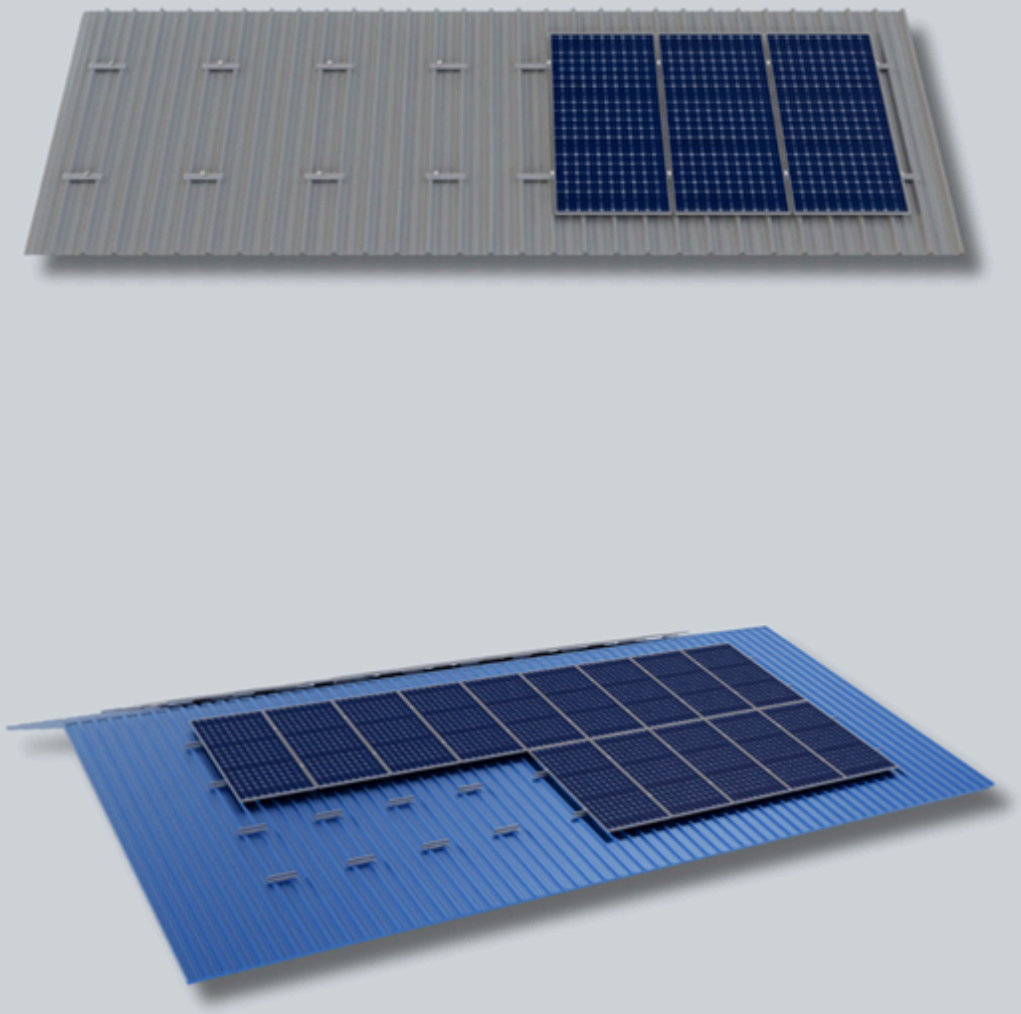
- ENSURES LONGEVITY AND CORROSION RESISTANCE
- PROVIDES FLEXIBILITY IN DESIGN AND CONFIGURATION
- COMPATIBLE WITH A LARGE VARIETY OF METAL ROOFS

SHANGHAI ONENESS TECH. CO., LTD.
E-mail: info@onenesspvsystems.com



Installation

ONENESS
Solar Mounting Systems



SHANGHAI ONENESS TECH. CO., LTD.

E-mail: info@onenesspvsystems.com

OPVS-UTR-30

ONENESS PV U-TYPE RAIL SYSTEM

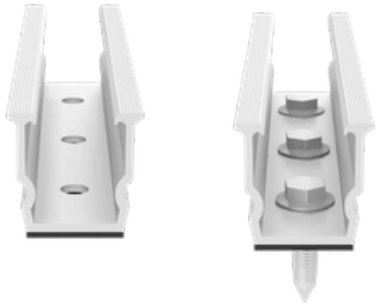


Remarkably
QUICK INSTALLATION

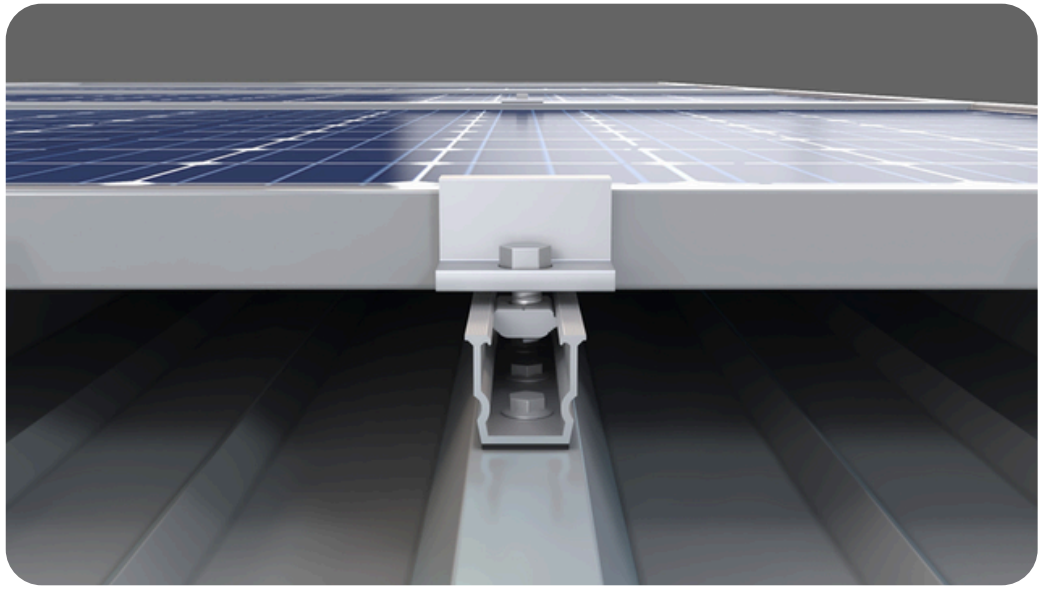
CE SGS ALU 304 STAINLESS STEEL 12 YEARS WARRANTY

Product Code:
OPVS-UTR-30

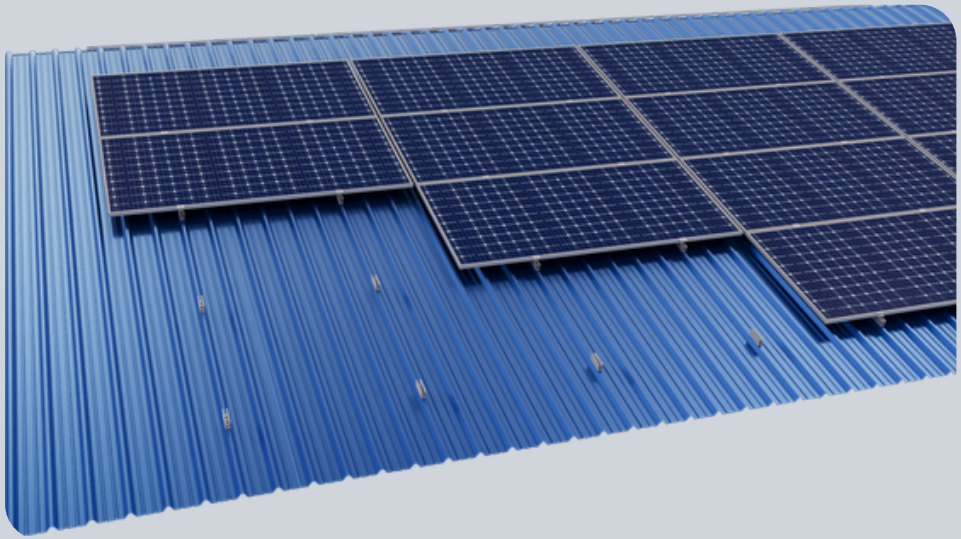
U-Type rail system for PV mounting on trapezoidal sheet metal roofing



Item	Quantity	Material	Specification
U-Type Rail	1	AL 6005-T5	L125mm
Self Drilling Screw	3	SUS 410	5.5*30 / 5.5*40



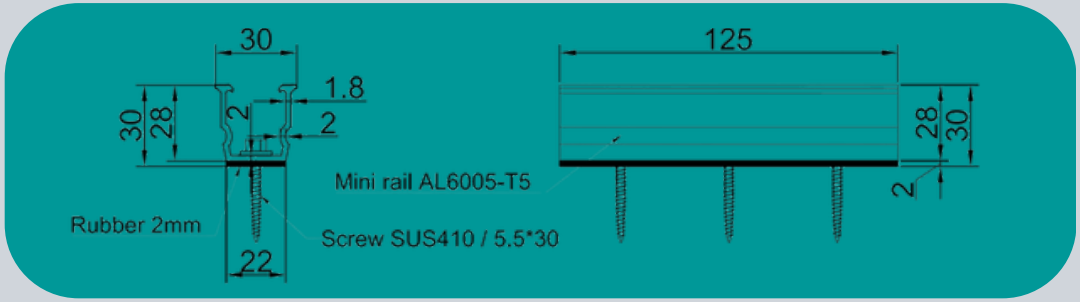
- ENSURES LONGEVITY AND CORROSION RESISTANCE
- PROVIDES FLEXIBILITY IN DESIGN AND CONFIGURATION
- COMPATIBLE WITH A LARGE VARIETY OF METAL ROOFS



Why Choose U-Type Rails?

- **Faster Installation:** Compact rails and self-tapping screws allow for quick mounting, reducing labor time.
- **Lower Costs:** Less material compared to full-length rails means significant savings without compromising safety.
- **Application:** Perfectly suited for trapezoidal and corrugated metal roofs, supporting **LANDSCAPE** module layouts.

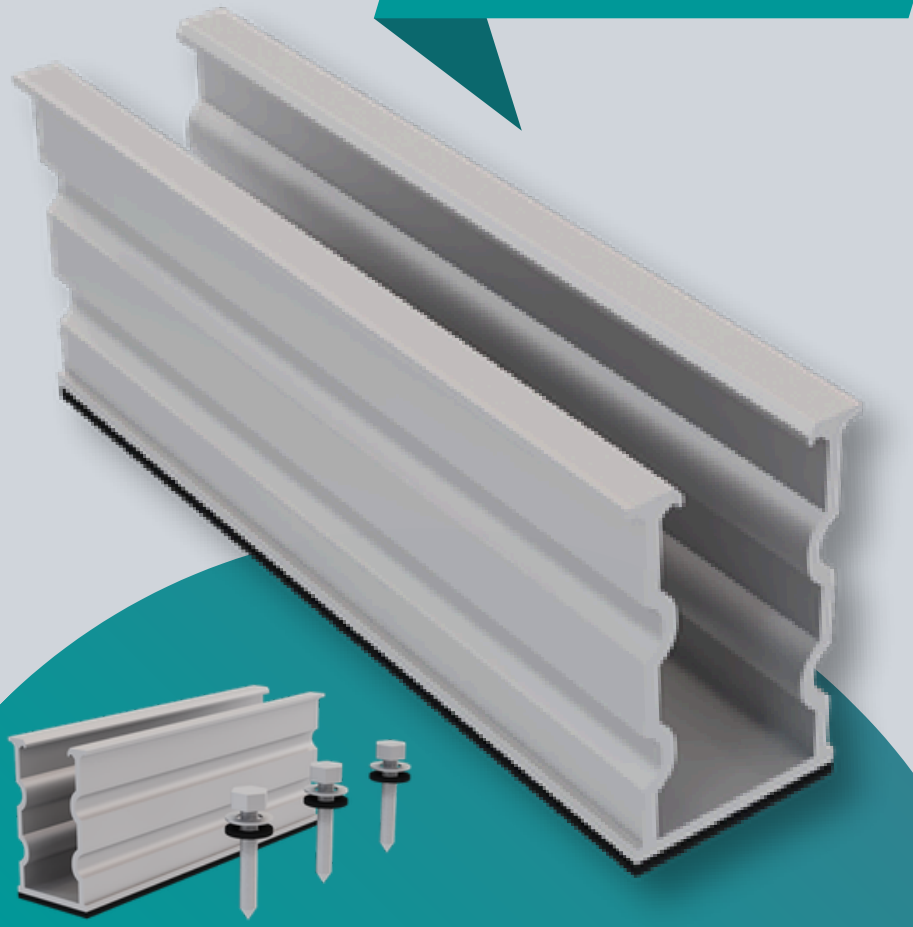
With its **combination of strength, speed, and savings**, the ONENESS U-Type Rail System is the ideal choice for installers and project developers looking for an effortless solar mounting solution for metal roofs.



Parameter	Specification
Application	Metal sheet roofs, trapezoidal roofs, corrugated tin roofs
Function	Direct mounting of solar panels without full-length rails
Material	Extruded Aluminum AL 6005-T5 (Anodized ≥15μm) + Stainless Steel Fasteners (SUS 304 / SUS 410)
Design	Compact rail profile (length options: 200–500 mm) for efficient module fixing
Surface Treatment	Anodized aluminum for enhanced corrosion resistance
Fixation Method	Self-tapping screws or hanger bolts with EPDM sealing washers
Load Capacity	Designed to withstand wind & snow loads according to EN 1991, AS/NZS 1170
Durability	25+ years service life in standard environmental conditions
Advantages	Lightweight, cost-effective, reduced material usage, and faster installation
Compatibility	Suitable for framed PV modules; compatible with universal mid & end clamps

OPVS-UTR-50

ONENESS PV U-TYPE RAIL SYSTEM

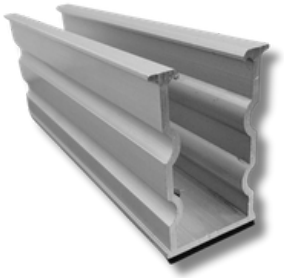


CE SGS ALU 304 STAINLESS STEEL 12 YEARS WARRANTY

TECHNICAL DATA

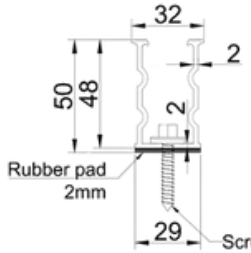
Application	• Pitched Trapezoidal Metal/Tin Sheet Roofs / **Rail height 50mm** /
Material grades	• Rails are made of aluminum alloy **6005-T5**. Screws **SUS410**. • **6005-T5** exhibits excellent corrosion resistance. It forms a protective oxide layer on its surface when exposed to air, which helps prevent corrosion. • **SUS410** stainless steel is highly resistant to corrosion, making it ideal for use in outdoor environments, marine applications, or areas where exposure to moisture or chemicals.
PV Modules configuration	• Framed modules with a frame height between 30 – 50 mm • Multiple module rows in **LANDSCAPE / HORIZONTAL** configuration • Option for large format modules and bifacial modules
Warranty	• 12 years according to our warranty terms
Supplementary documents	• Assembly instructions files and videos

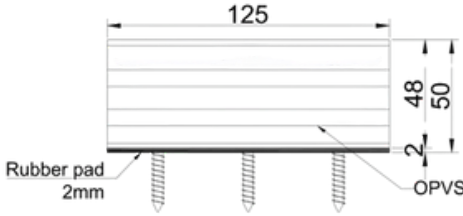
- **Ensures longevity and corrosion resistance**
- **Compatible with a large variety of metal roofs**
- **Provides flexibility in design and configuration**



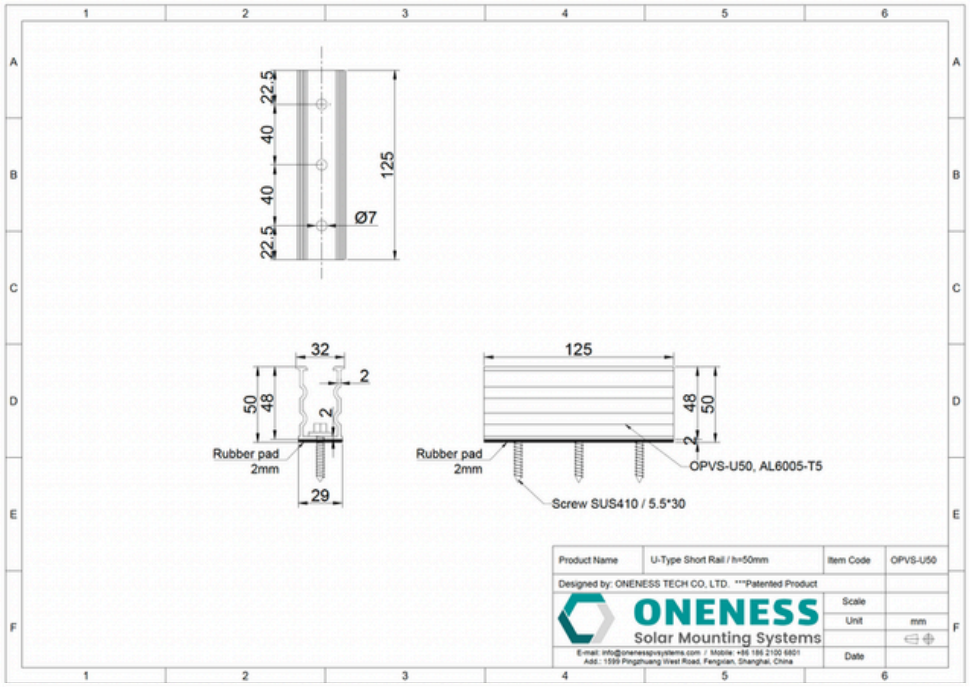


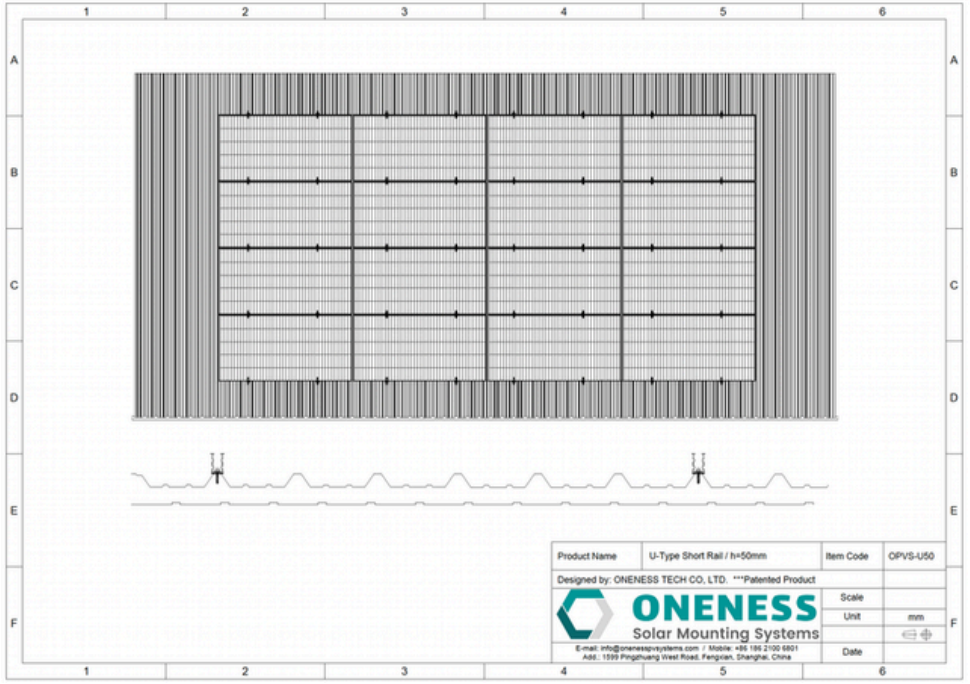


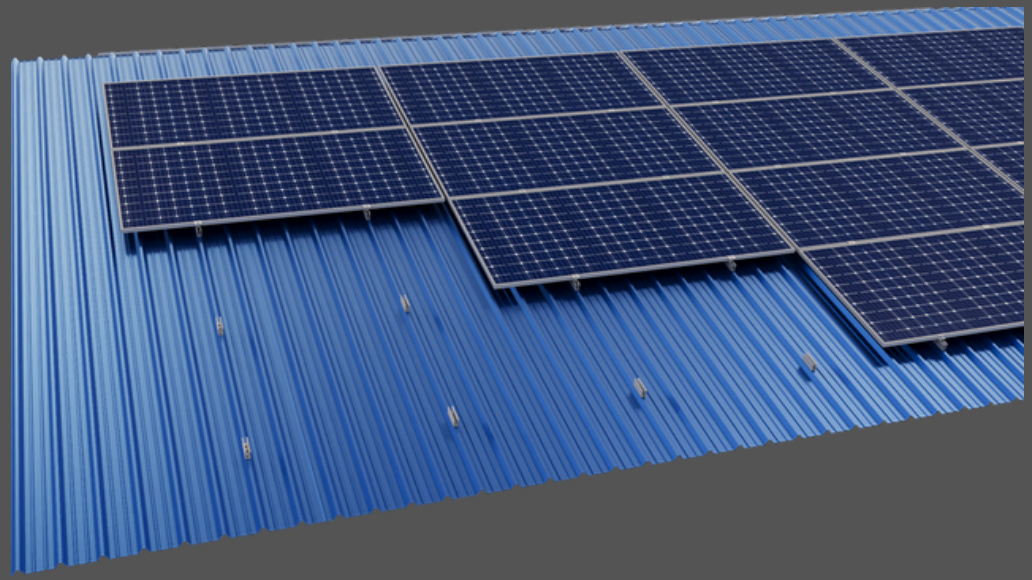


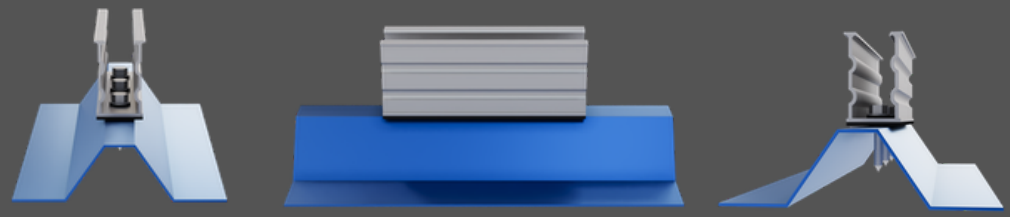


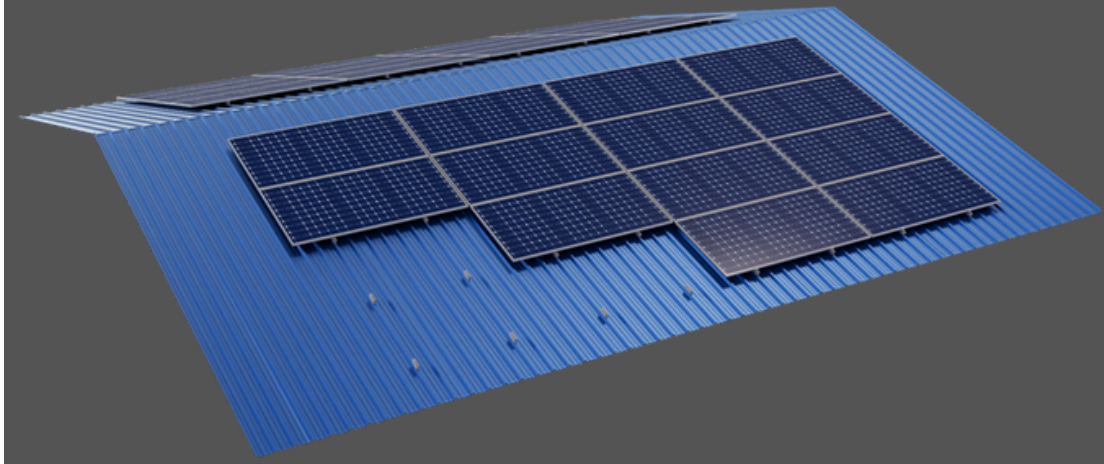



22.5
40
40
22.5
125
Ø7
32
2
50
48
2
Rubber pad
2mm
29
125
48
50
2
Rubber pad
2mm
OPVS-U50, AL6005-T5
Screw SUS410 / 5.5*30
Product Name
U-Type Short Rail / h=50mm
Item Code
OPVS-U50
Designed by: ONENESS TECH CO, LTD. ***Patented Product
Scale
Unit
mm
Date
ONENESS
Solar Mounting Systems


Product Name
U-Type Short Rail / h=50mm
Item Code
OPVS-U50
Designed by: ONENESS TECH CO, LTD. ***Patented Product
Scale
Unit
mm
Date
ONENESS
Solar Mounting Systems



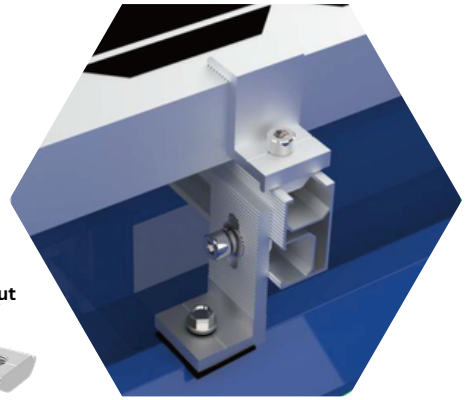




Item Code: OPVS-LF-01

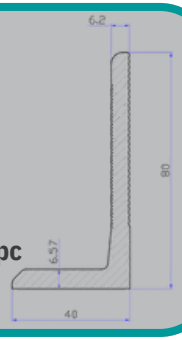
Item Name: L-foot System for Corrugated or Trapezoidal Sheet Metal



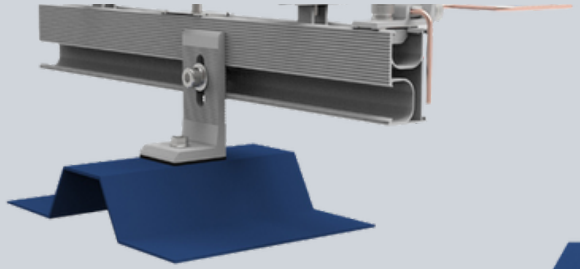


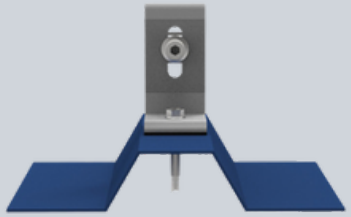
Items / BOM:

- L-Foot (Material: Al6005-T5) - 1pc
- M6.3*80 Drilling Screw (SUS 304) - 1pc
- Rubber Pad (EPDM) -1pc
- Hex Socket Head Bolt M8*25, Washer, Spring SUS304 -1pc
- Nut (Al6005-T5) - 1pc

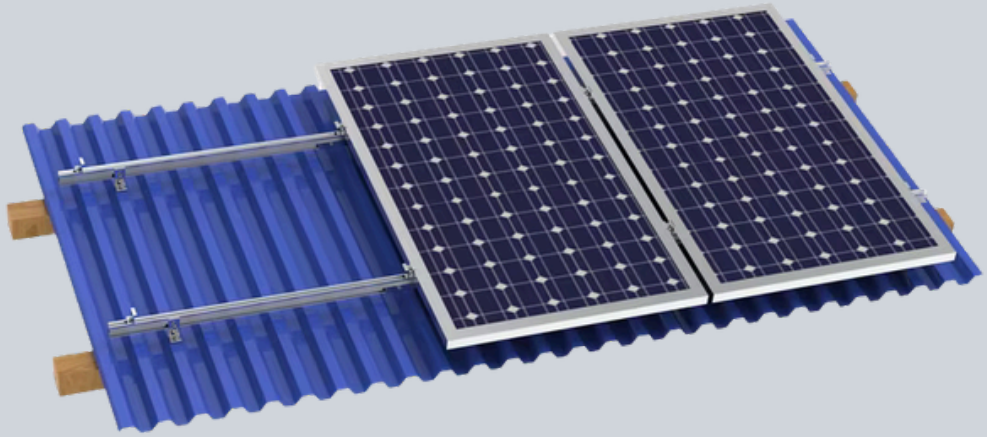




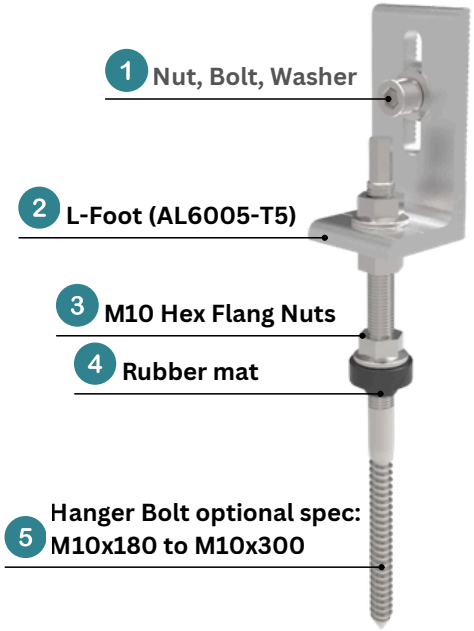








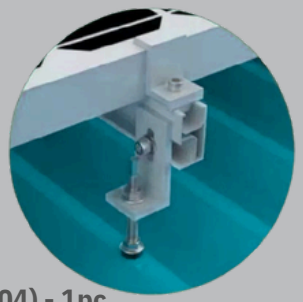
Item Code: OPVS-HBLF
Description: Hanger Bolt for Corrugated, Fibre Cement, or Trapezoidal Sheet Metal (M10×180 to M10x300)

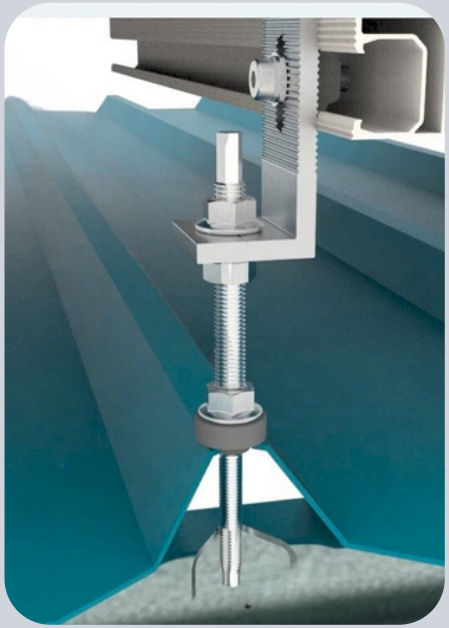


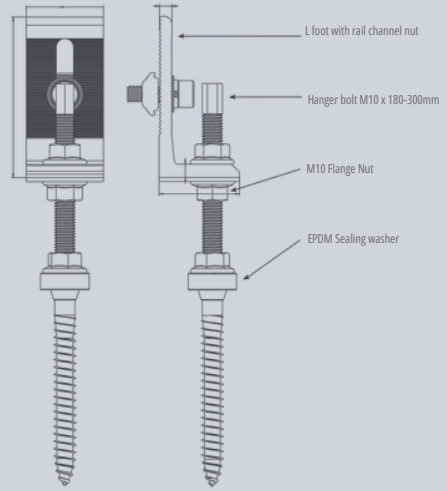


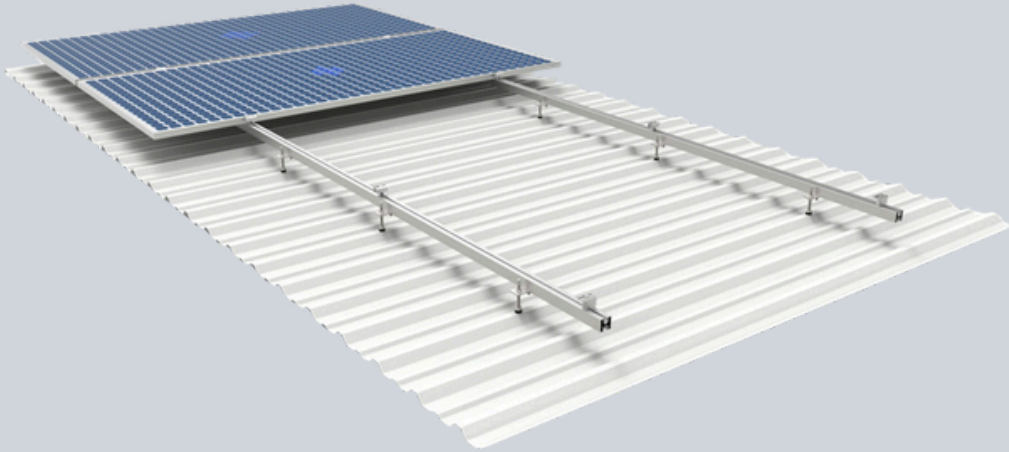
Items / BOM:

- L -Foot (Material: Al6005-T5) - 1pc
- M10 Hanger Bolt (AL6005-T5) - 1pc
- M10 hex flange nuts (SUS 304) - 3pc
- Rubber mat (EPDM) -1pc
- M8 Hex socket head bolt, washer and nut (SUS304) - 1pc







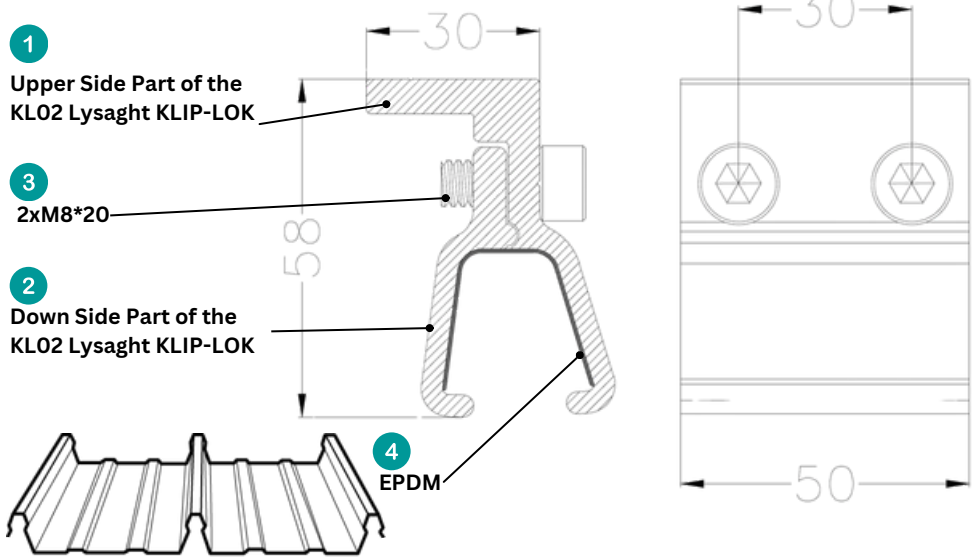


Material Types:

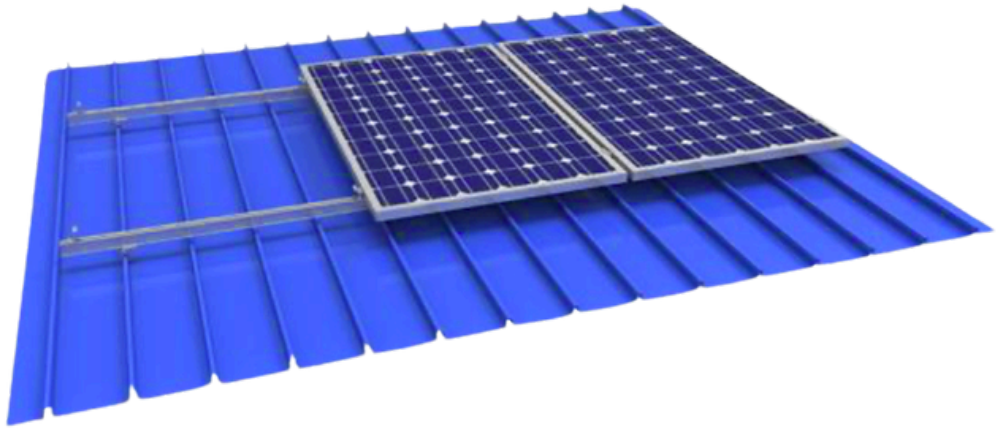
All extruded aluminum components are 6005-T5,clear anodized
Hanger bolt : Stainless steel 304 or 316

Item Code: OPVS-Kl02

Item Name: Lysaght KLIP-LOK 406 interface



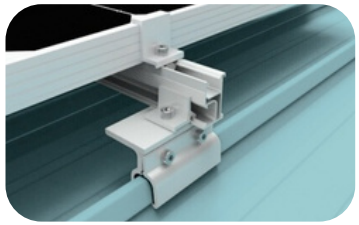


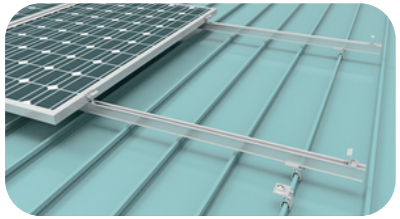


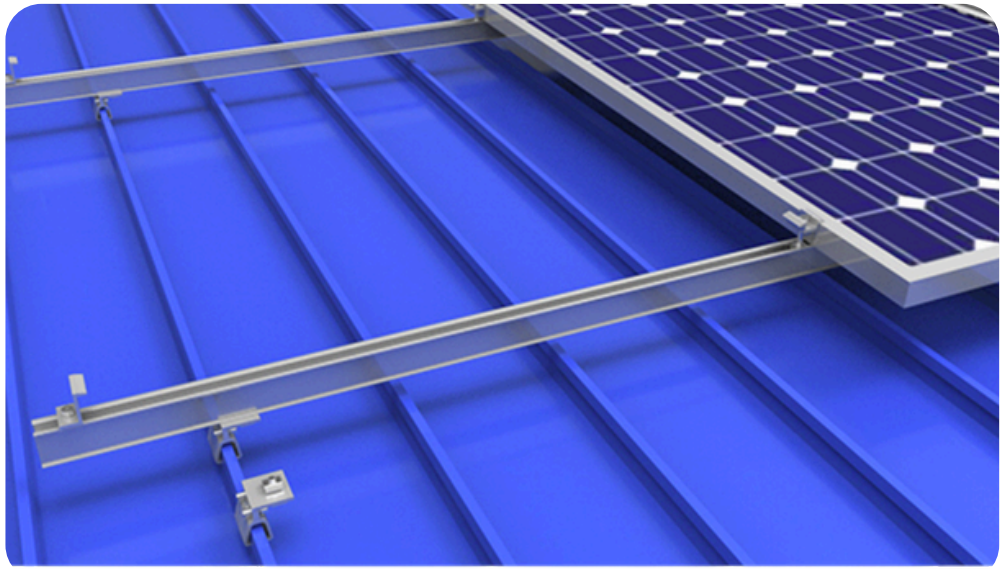
Items / BOM:

- Upper Side Part (Material: Al6005-T5) - 1pc
- Side SideBottom Part (AL6005-T5) - 1pc
- M8*20 hex socket head bolt (SUS 304) - 2pc
- Rubber Pad (EPDM) -1pc



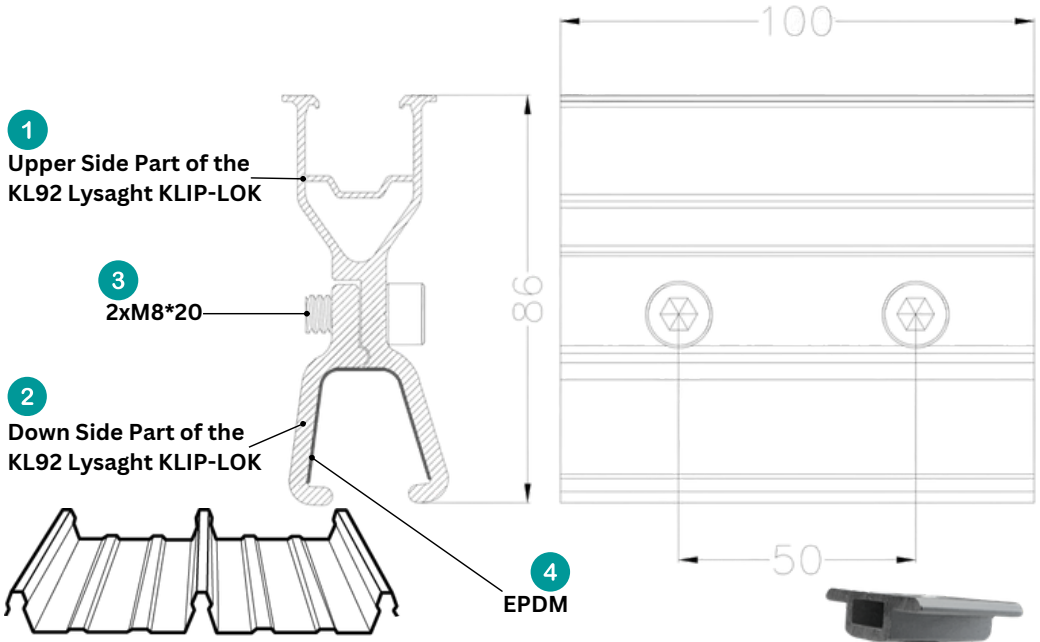






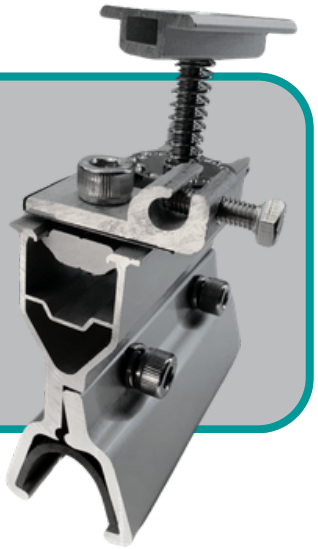
tem Code: OPVS-KL92

Description: Lysaght KLIP-LOK 406 interface

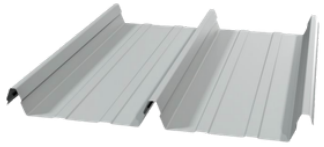


Items / BOM:

- Main Upper Part (Material: Al6005-T5) - 1pc
- Side Bottom Part (AL6005-T5) - 1pc
- M8*20 hex socket head bolt (SUS 304) - 2pc
- Rubber Pad (EPDM) -1pc

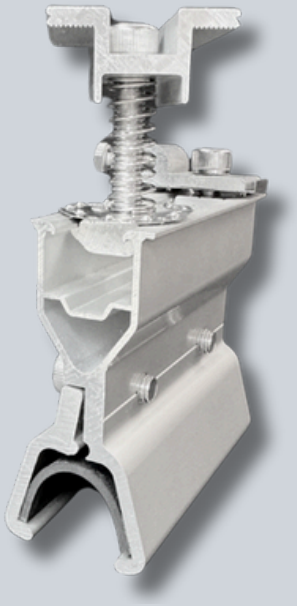




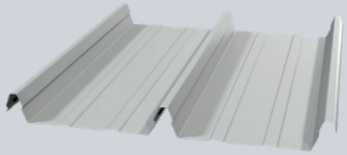


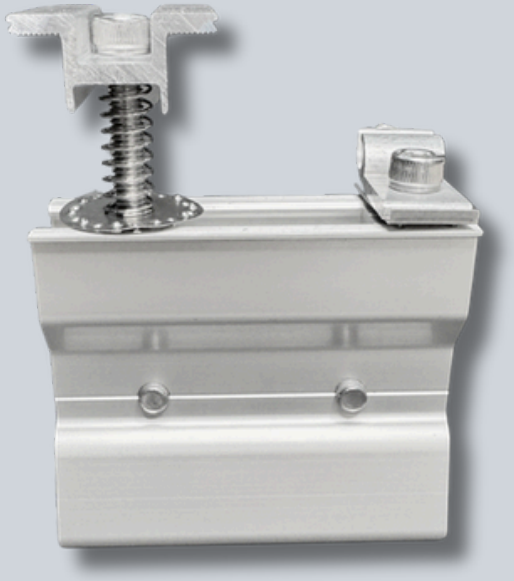
Product Photos
Item Code: OPVS-KL92
Description: Lysaght KLIP-LOK 406 interface



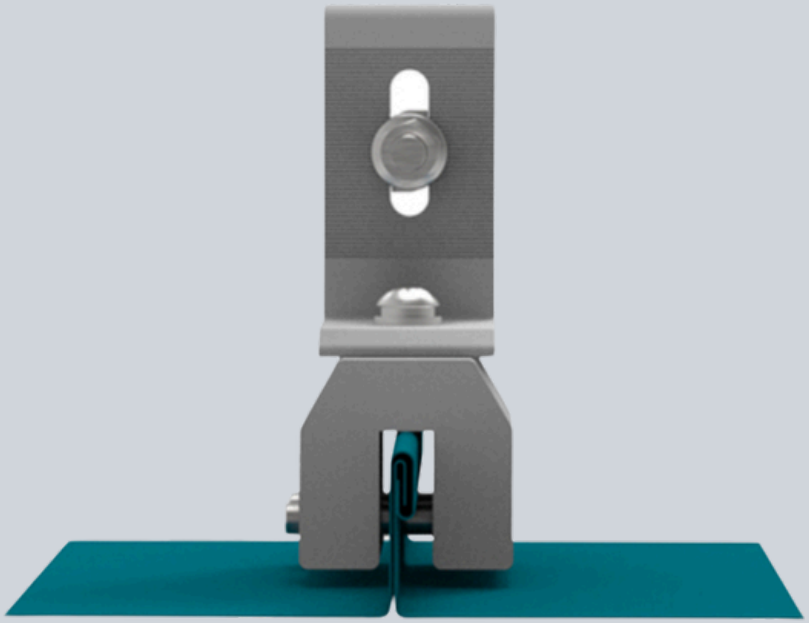


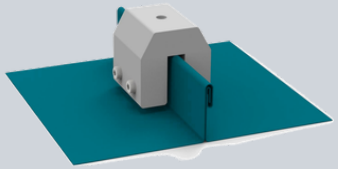






tem Code: OPVS-SSC
Description: Standing Seam Clamp





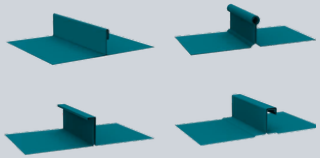
Roof Friendly

Install on the roof-seam directly , non penetrative



Easy Installation

Fasten clamp on roof seam with blind rivets in two side



Universal

Suitable for single or double-folded seams≤ 14mm

Quick Installation Guide



Step 1:
Confirm the single or double roof seam width.

PS: Seam width ≤14mm



Step 2:
Confirm the Clamp position and attach the Clamp on roof seam.



Step 3:
Fasten clamp on side with 4 blind rivets.

Torque value: 12 N.m

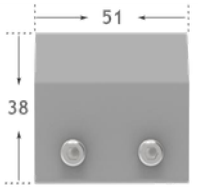


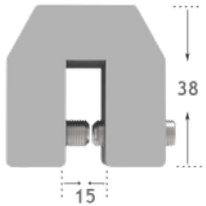
Step 4:
Install L feet on clamp and then connect rail system.

Torque value: 12 N.m

Technical Data

Max pull out load vertical to roof:	7.8KN
Screw tension:	up to 4NM
Ultimate Tensile Strength:	62
Tensile Yield Strength:	42
Fatigue Strength:	100 Mpa
Shear Modulus:	26.0 Gpa
Shear Strength:	205 Mpa
Hardness, Knoop:	21
Hardness, Vickers:	701
Elongation at Break:	0.80%
Modulus of Elasticity:	69.0 Ga





Product Specification

Adjustable Tripod System 10°- 60°

Web
onenesspvsystems.com

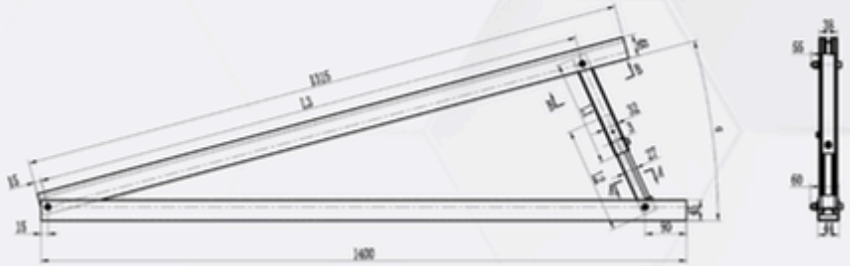
Name: Adjustable Tripod A-Frame Kit

Code: OPVS-ATP-1015
OPVS-ATP-1530
OPVS-ATP-3060



BOM:
Botom U Rail (AL6005-T5) x 1
Upper Rail (AL6005-T5) x 1
Adjustable Leg set (AL6005-T5) x 1
*ST6.3*25 Self-tapping screw(SUS 410) x 1*
*M8*20 Hex socket head screws (SUS304) x1*
*M8*55 Hex socket head screws (SUS304) x1*
*M8*60 Hex socket head screws (SUS304) x2*
M8 plain washers(SUS304) x3
M8 Hexagon Nuts(SUS304) x3

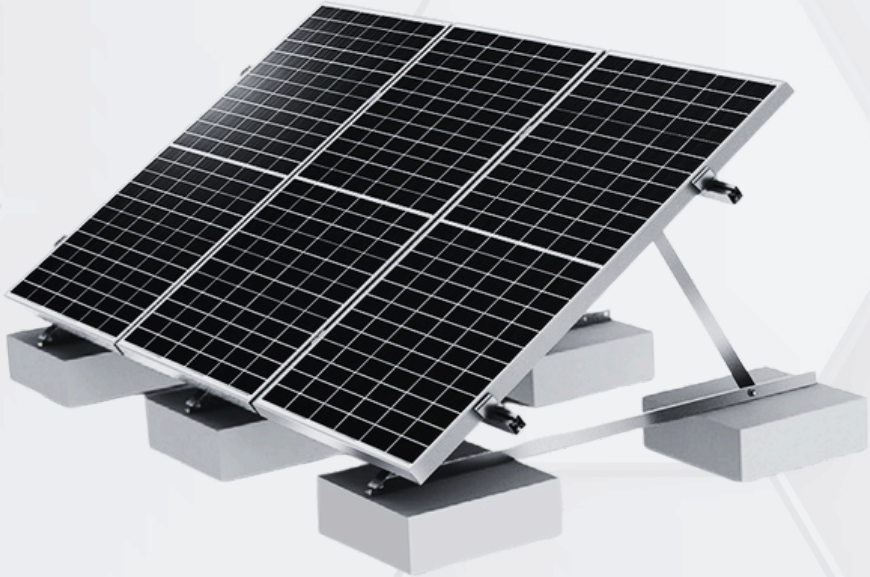
No.	Item Code	Dimensions				Weight (Kg)	Remark
		L1	L2	L3	Tilt		
1	OPVS-ATP-1015	230	230	1200	10°-15°	2.54	Packaging according to buyer's specification
2	OPVS-ATP-1530	340	340	1200	15°-30°	2.65	
3	OPVS-ATP-3060	650	650	1200	30°-60°	2.99	



No. 1599 Pingzhuang West Road, Fengxian, Shanghai, People's Republic of China
+86-186-2100-6801
info@onenesspvsystems.com

Adjustable Tri-Pod System
Multiple Applications





Email Us
info@onenesspvsystems.com
Contact Us
+86 186 2100 6801



FLAT ROOF Solar Mounting Systems

BALLASTED PRIME

EAST-WEST

SOLAR MOUNTING SYSTEM



CE SGS ALU 304/316 STAINLESS STEEL 12 YEARS WARRANTY

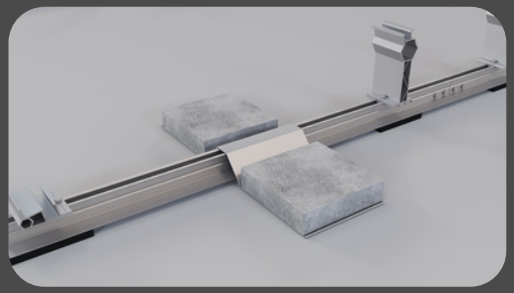
Visit Us
onenesspvsystems.com

SHANGHAI ONENESS TECH. CO., LTD.

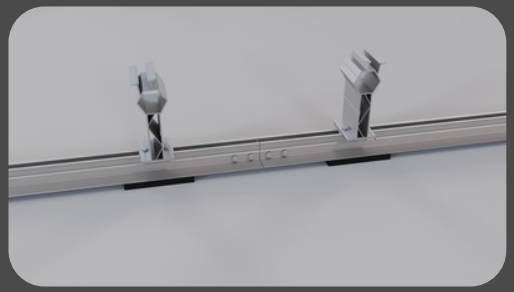
Email Us
info@onenesspvsystems.com

Contact Us
+86 186 2100 6801









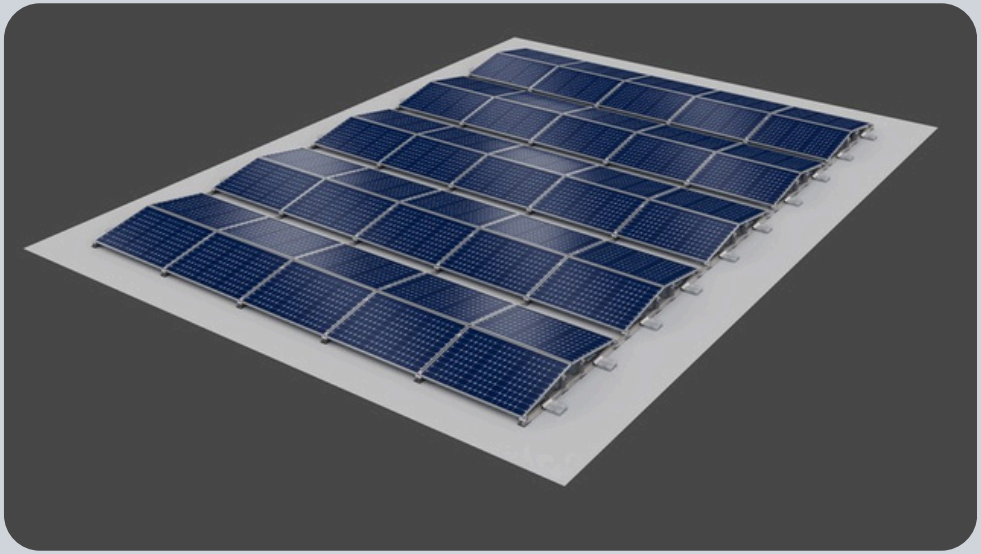


CE SGS ALU 304/316 STAINLESS STEEL 12 YEARS WARRANTY

Rail-based Mounting System for framed PV modules on flat roofs.

Superior Aesthetic Design

For Flat Roofs - East / West 10° and 15° Tilt



Precision
in every mount!

- ✔ Module sizes up to 1134 x 2278 mm
- ✔ Low point loads Short-side clamping
- ✔ Suitable for high wind and snow loads
- ✔ Flexible system with few components
- ✔ Preassembled components, plug & play

Product Code	OPVS – BPR (Ballasted – PRIME)
Material Fasteners	AL 6005-T5 - Anodised finish Stainless Steel 304/316
Rail Pad	EPDM foam pad / 3M glue
Tilt / Angle	10° and 15° (may vary slightly depending on module width)
PV Module Orientation	Horizontal / Landscape
Module Dimention	950–1134mm x 1550–2278mm (width x length)
Distance to Roof Surface	Approx. 70 mm, less on gravel roofs
Distance from the Roof Edge	Without parapet to roof edge, with parapet, dependent on its height
Max. Building Height	35m (adaptation to higher buildings on request)
Max. Roof Inclination	Up to 3° in the case of long rail structure, 5° in the case of connected or short rail structure
On-Site Requirements	It must be ensured that the roof structure and building structure have the sufficient structural load-bearing capacity and that the roof structure has sufficient compressive load-bearing capacity.
Components	Module clamps with grounding plates, base rails, front foot, rear foot, building protection EPDM pads, wind shields - deflectors, ballast trays, ballast blocks (provided by the customer)





BALLASTED PRIME SOUTH

SOLAR MOUNTING SYSTEM

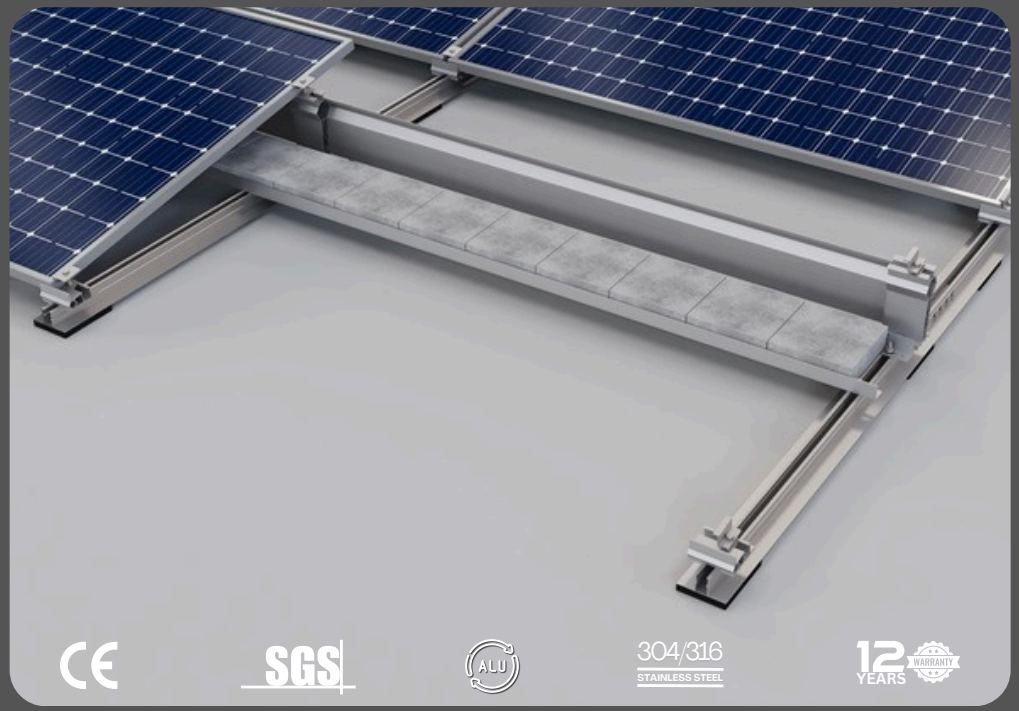
Visit Us
onenesspvsystems.com

SHANGHAI ONENESS TECH. CO., LTD.

Email Us
info@onenesspvsystems.com

Contact Us
+86 186 2100 6801





Rail-based Mounting System for framed PV modules on flat roofs

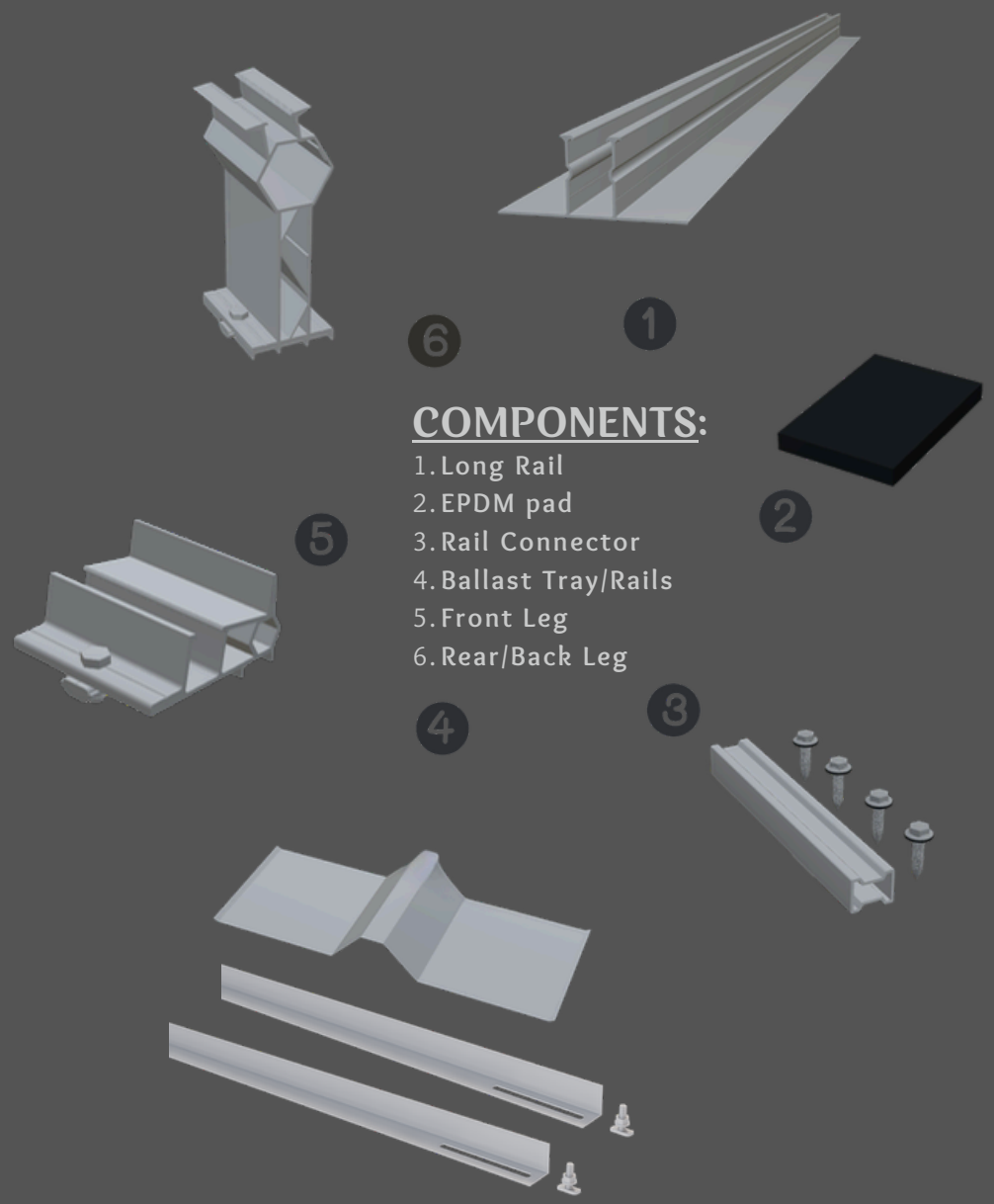
Superior Aesthetic Design For Flat Roofs - South 10° and 15° Tilt



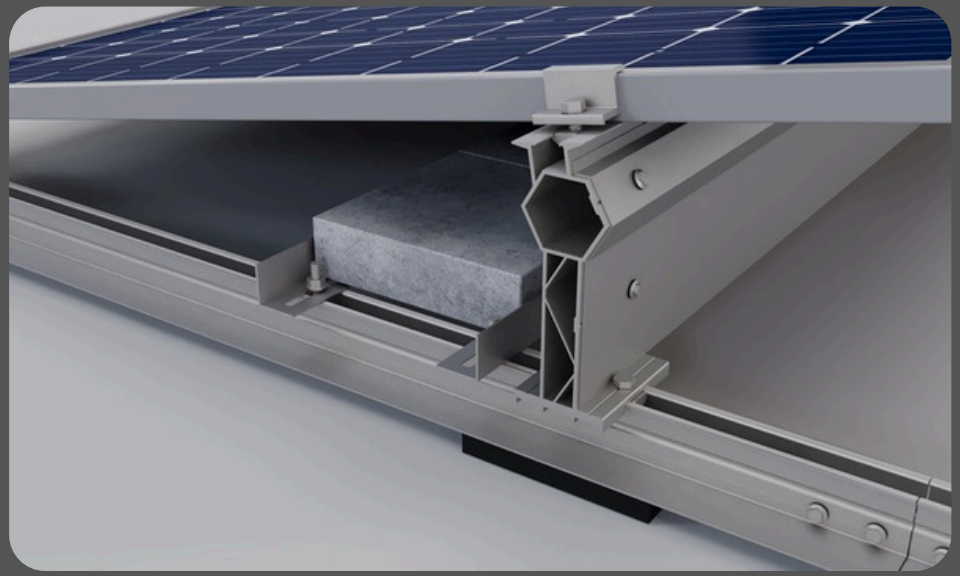
Precision
in every mount!

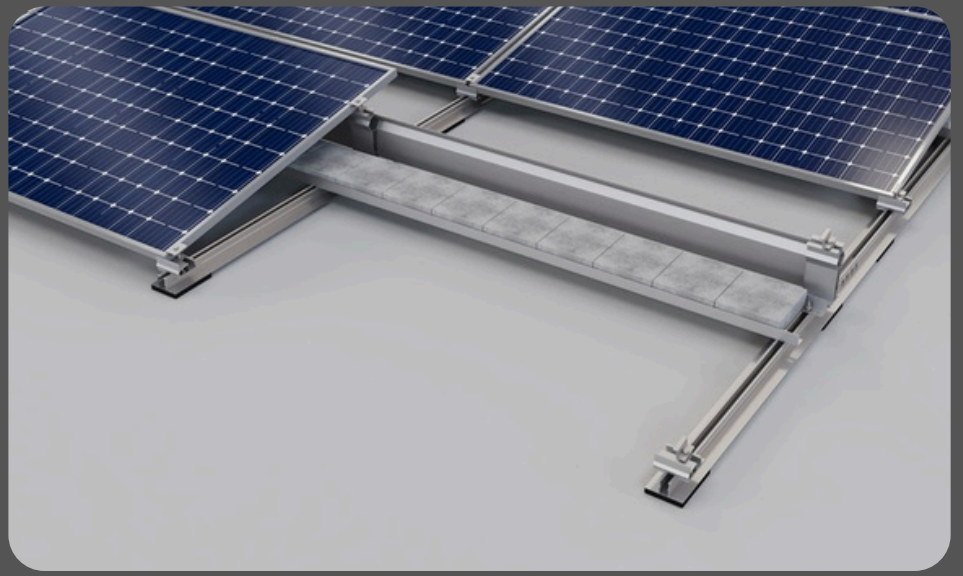
- ✔ Module sizes up to 1134 x 2278 mm
- ✔ Low point loads Short-side clamping
- ✔ Suitable for high wind and snow loads
- ✔ Flexible system with few components
- ✔ Preassembled components, plug & play

Product Code	OPVS – BPR (Ballasted – PRIME)
Material Fasteners	AL 6005-T5 - Anodised finish Stainless Steel 304/316
Rail Pad	EPDM foam pad / 3M glue
Tilt / Angle	10° and 15° (may vary slightly depending on module width)
PV Module Orientation	Horizontal / Landscape
Module Dimention	950–1134mm x 1550–2278mm (width x length)
Distance to Roof Surface	Approx. 70 mm, less on gravel roofs
Distance from the Roof Edge	Without parapet to roof edge, with parapet, dependent on its height
Max. Building Height	35m (adaptation to higher buildings on request)
Max. Roof Inclination	Up to 3° in the case of long rail structure, 5° in the case of connected or short rail structure
On-Site Requirements	It must be ensured that the roof structure and building structure have the sufficient structural load-bearing capacity and that the roof structure has sufficient compressive load-bearing capacity.
Components	Module clamps with grounding plates, base rails, front foot, rear foot, building protection EPDM pads, wind shields - deflectors, ballast trays, ballast blocks (provided by the customer)









Visit Us
onenesspvsystems.com

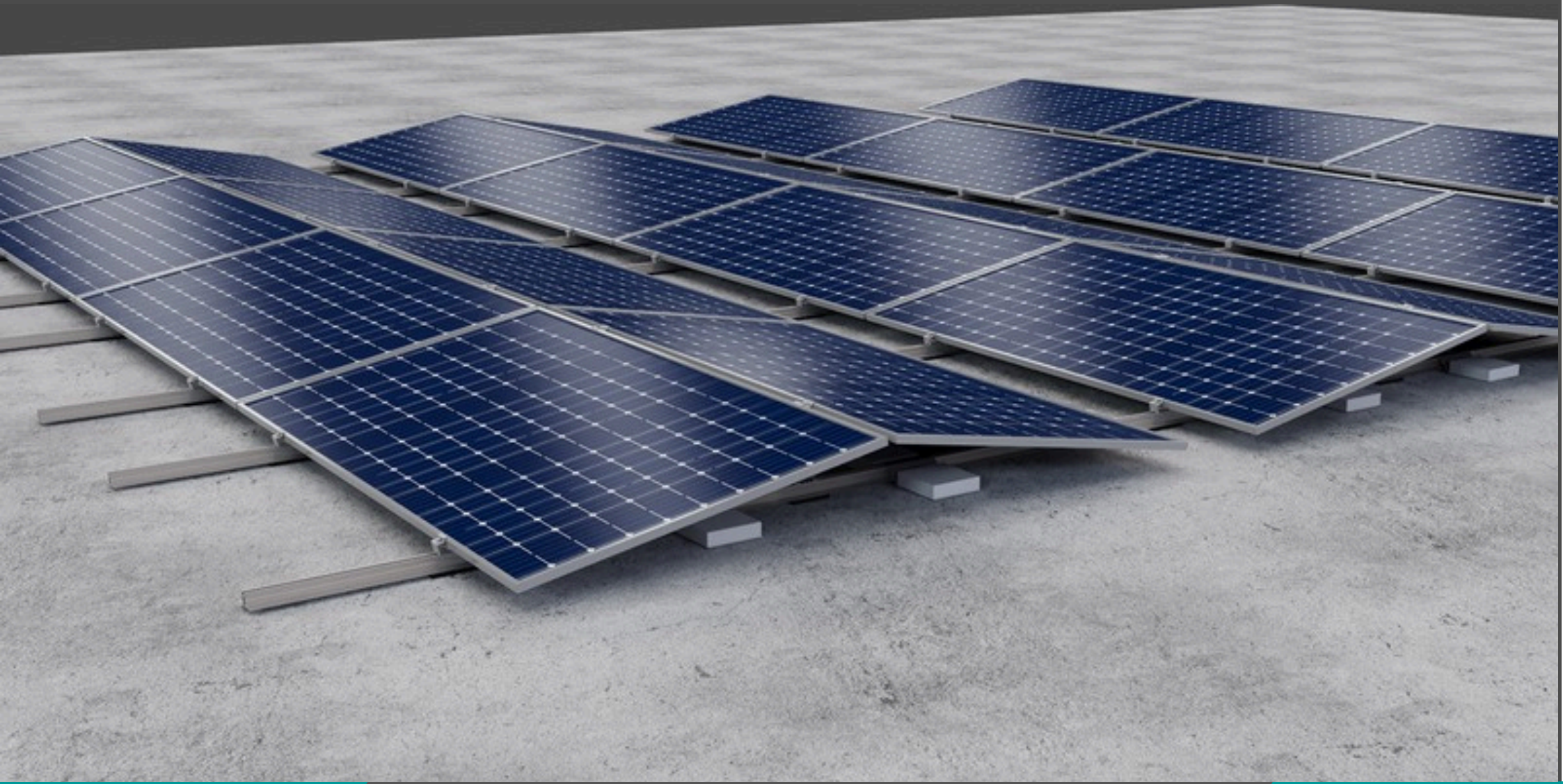
SHANGHAI ONENESS TECH. CO., LTD.

Email Us
info@onenesspvsystems.com

Contact Us
+86 186 2100 6801

BALLASTED ULTIMATE EAST-WEST

SOLAR MOUNTING SYSTEM



Visit Us
onenesspvsystems.com

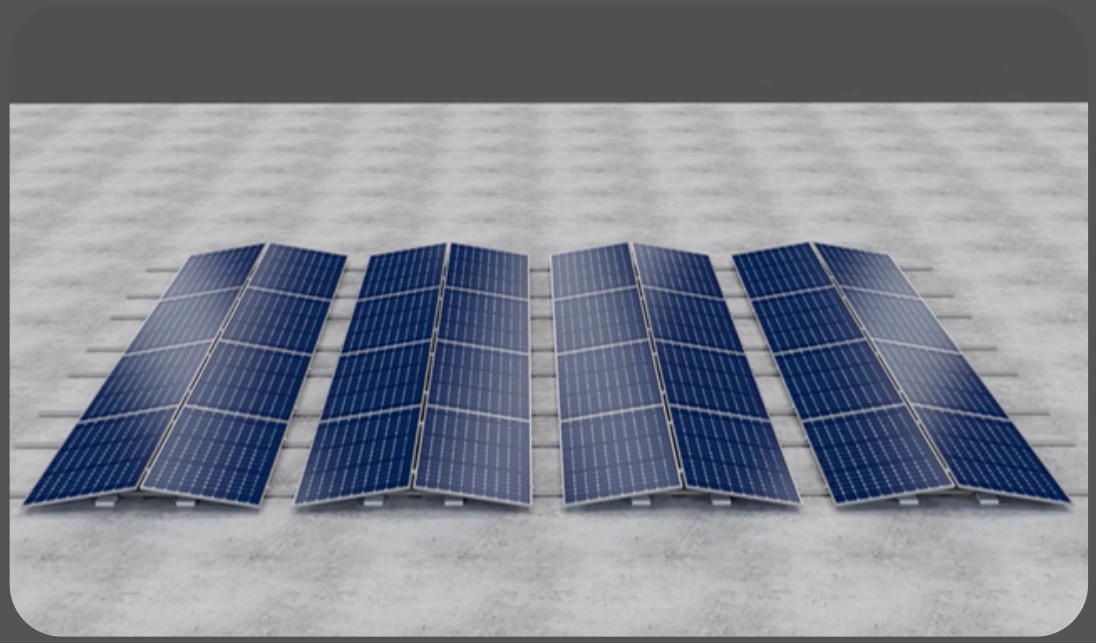
SHANGHAI ONENESS TECH. CO., LTD.

Email Us
info@onenesspvsystems.com

Contact Us
+86 186 2100 6801

Rail-based Mounting System for framed PV modules on flat roofs

Superior Aesthetic Design For Flat Roofs - South 10° and 15° Tilt



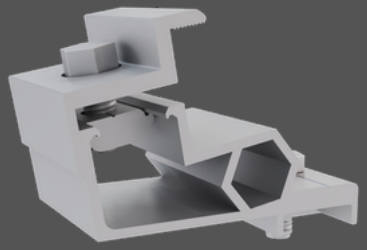
Precision
in every mount!

- ✔ Module sizes up to 1303 x 2384 mm
- ✔ Low point loads Short-side clamping
- ✔ Suitable for high wind and snow loads
- ✔ Flexible system with few components
- ✔ Preassembled components, plug & play

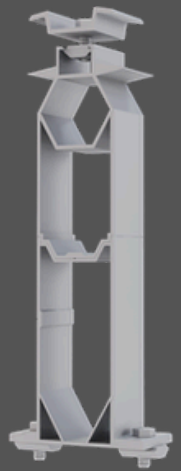
Product Code	OPVS – BULT (Ballasted – ULTIMATE)
Material Fasteners	AL 6005-T5 - Anodised finish Stainless Steel 304/316
Rail Pad	EPDM foam pad with 3M glue sticker
Tilt / Angle	10° and 15° (may vary slightly depending on module width)
PV Module Orientation	Horizontal / Landscape
Module Dimention	950–1303mm x 1550–2384mm (width x length)
Distance to Roof Surface	Approx. 70 mm, less on gravel roofs
Distance from the Roof Edge	Without parapet to roof edge, with parapet, dependent on its height
Max. Building Height	35m (adaptation to higher buildings on request)
Max. Roof Inclination	Up to 3° in the case of long rail structure, 5° in the case of connected or short rail structure
On-Site Requirements	It must be ensured that the roof structure and building structure have the sufficient structural load-bearing capacity and that the roof structure has sufficient compressive load-bearing capacity.
Components	Module clamps with grounding plates, base rails, front foot, rear foot, building protection EPDM pads, wind shields - deflectors, ballast trays, ballast blocks (provided by the customer)

COMPONENTS LIST:

RAIL
FRONT LEG
REAR LEG
EPDM pad
Rail Connector
Ballast L-shape Rail
Ballast Tray



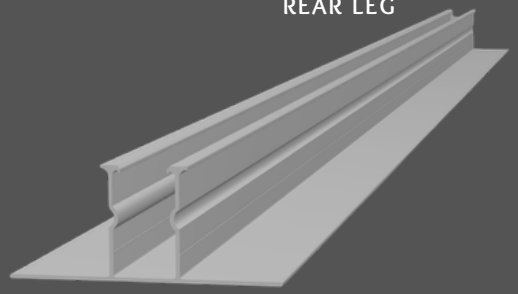
FRONT LEG



REAR LEG



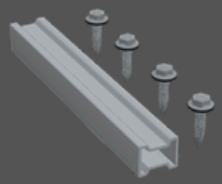
L-Shaped Ballast Rail



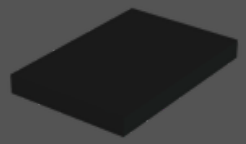
RAIL



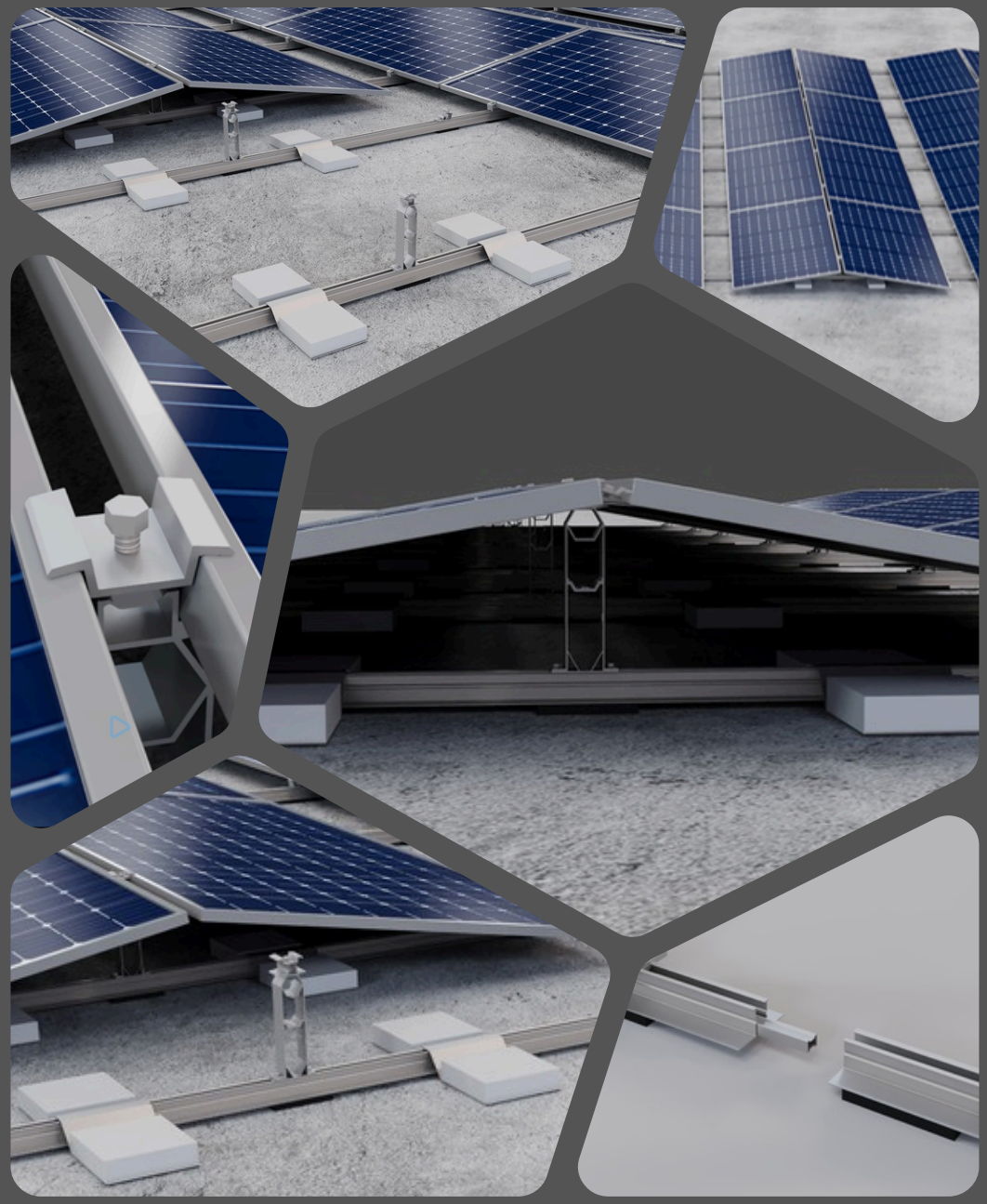
SUS 304
Ballast Tray



Rail ConnectorREAR LEG

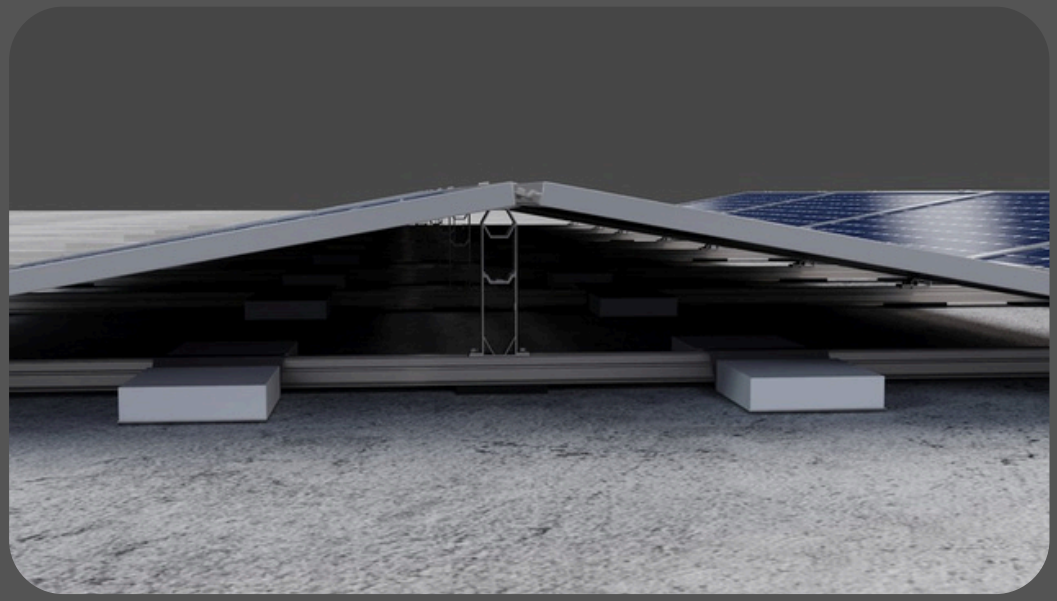


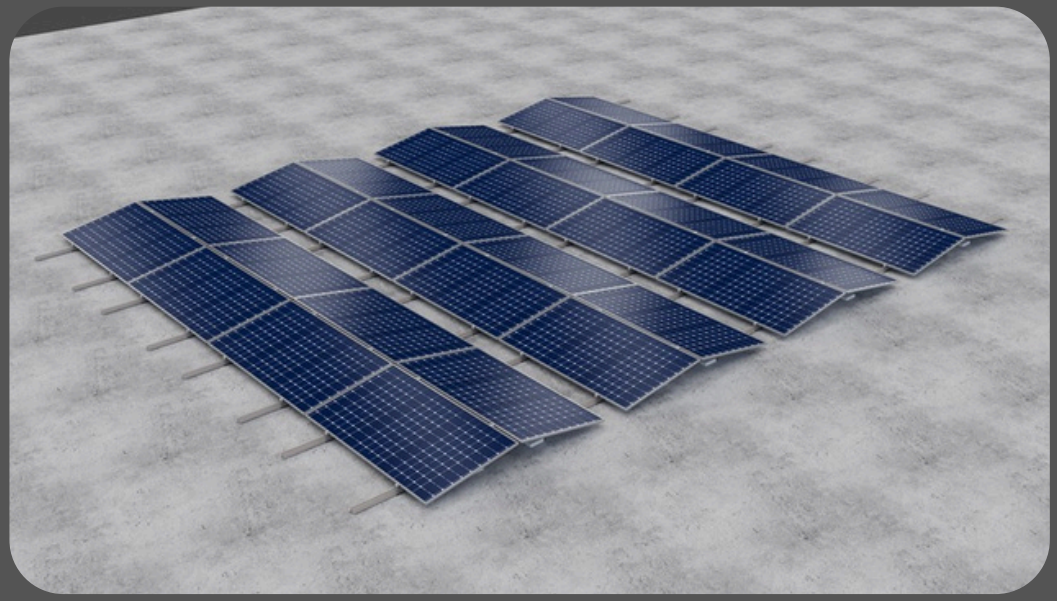
EPDM







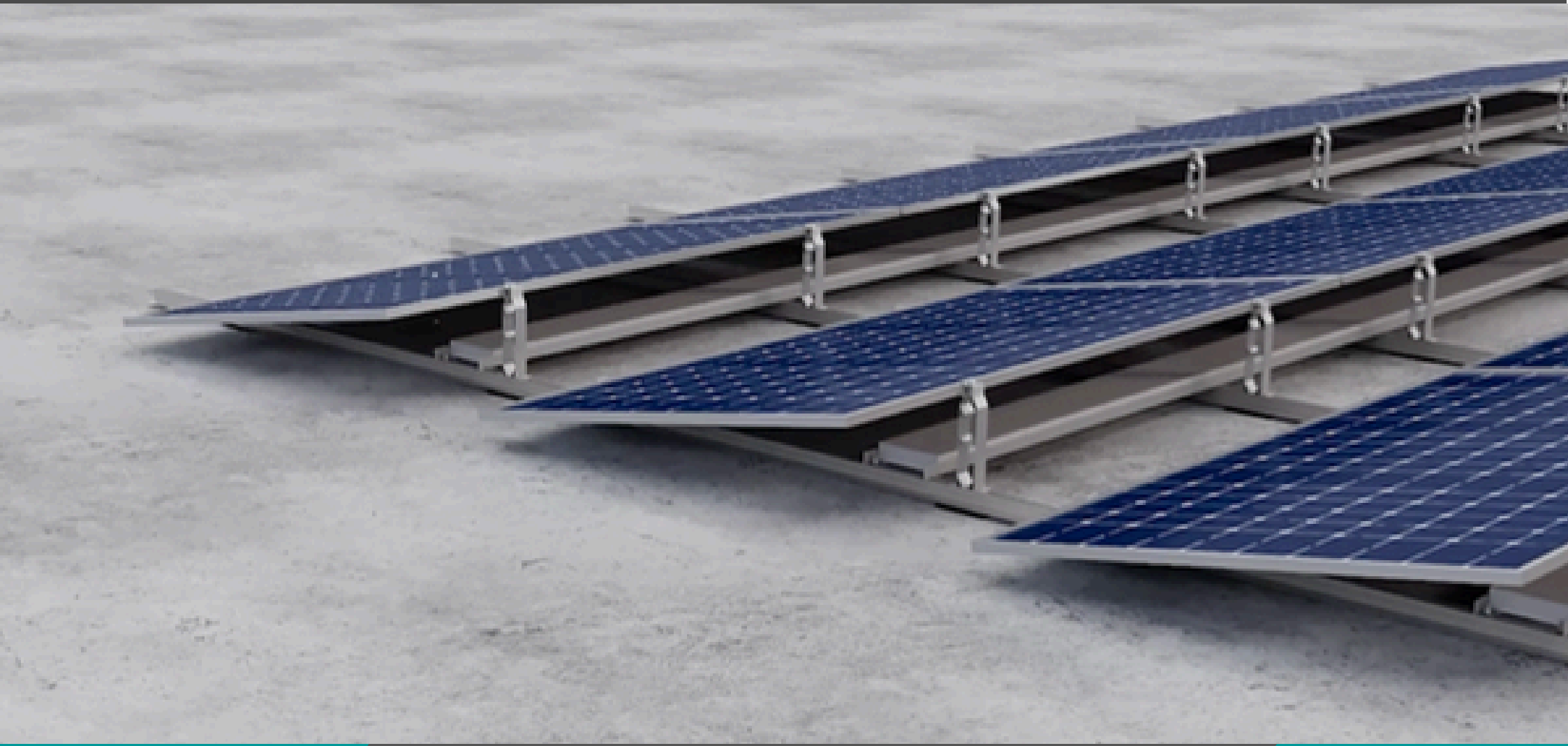




BALLASTED ULTIMATE

SOUTH

SOLAR MOUNTING SYSTEM



Visit Us
onenesspvsystems.com

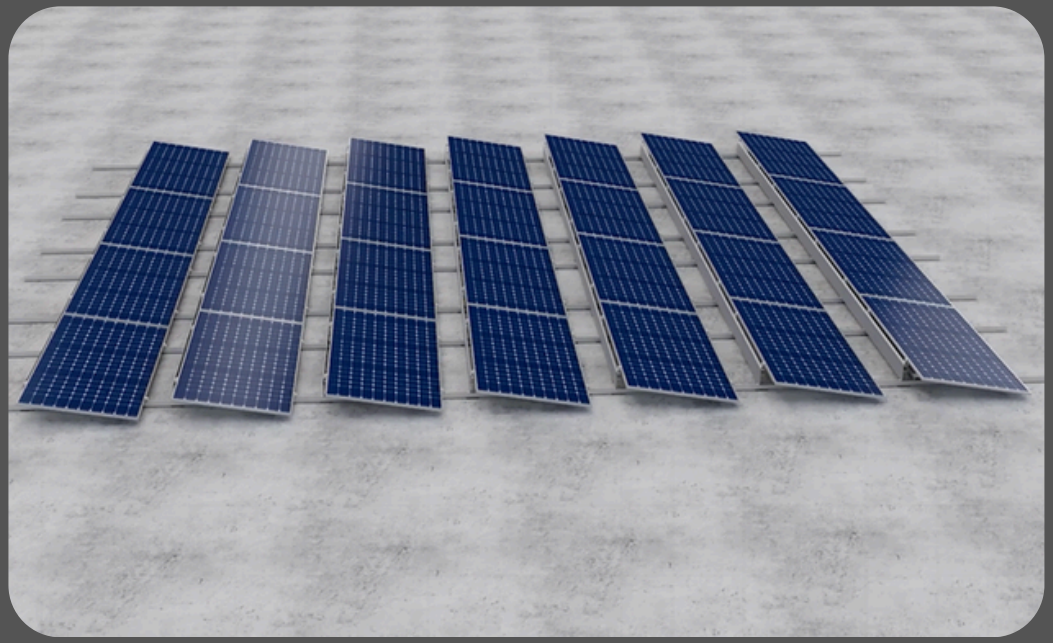
SHANGHAI ONENESS TECH. CO., LTD.

Email Us
info@onenesspvsystems.com

Contact Us
+86 186 2100 6801

Rail-based Mounting System for framed PV modules on flat roofs

Superior Aesthetic Design For Flat Roofs - South 10° and 15° Tilt



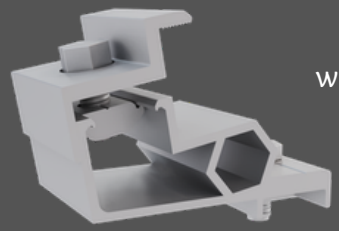
Precision
in every mount!

- ✔ Module sizes up to 1303 x 2384 mm
- ✔ Low point loads Short-side clamping
- ✔ Suitable for high wind and snow loads
- ✔ Flexible system with few components
- ✔ Preassembled components, plug & play

Product Code	OPVS – BULT (Ballasted – ULTIMATE)
Material Fasteners	AL 6005-T5 - Anodised finish Stainless Steel 304/316
Rail Pad	EPDM foam pad with 3M glue sticker
Tilt / Angle	10° and 15° (may vary slightly depending on module width)
PV Module Orientation	Horizontal / Landscape
Module Dimention	950–1303mm x 1550–2384mm (width x length)
Distance to Roof Surface	Approx. 70 mm, less on gravel roofs
Distance from the Roof Edge	Without parapet to roof edge, with parapet, dependent on its height
Max. Building Height	35m (adaptation to higher buildings on request)
Max. Roof Inclination	Up to 3° in the case of long rail structure, 5° in the case of connected or short rail structure
On-Site Requirements	It must be ensured that the roof structure and building structure have the sufficient structural load-bearing capacity and that the roof structure has sufficient compressive load-bearing capacity.
Components	Module clamps with grounding plates, base rails, front foot, rear foot, building protection EPDM pads, wind shields - deflectors, ballast trays, ballast blocks (provided by the customer)

COMPONENTS LIST:

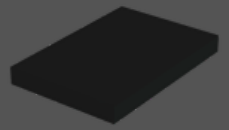
RAIL
FRONT LEG
REAR LEG
EPDM pad
Rail Connector
Ballast L-shape Rail
Ballast Tray
Wind Shield (optional)



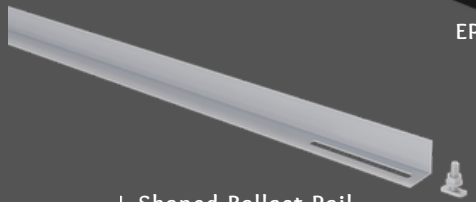
FRONT LEG



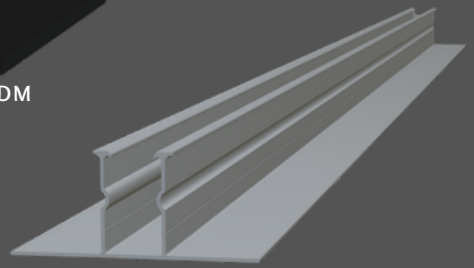
REAR LEG



EPDM



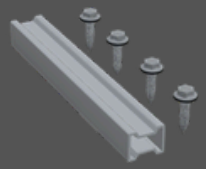
L-Shaped Ballast Rail

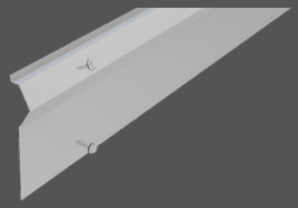


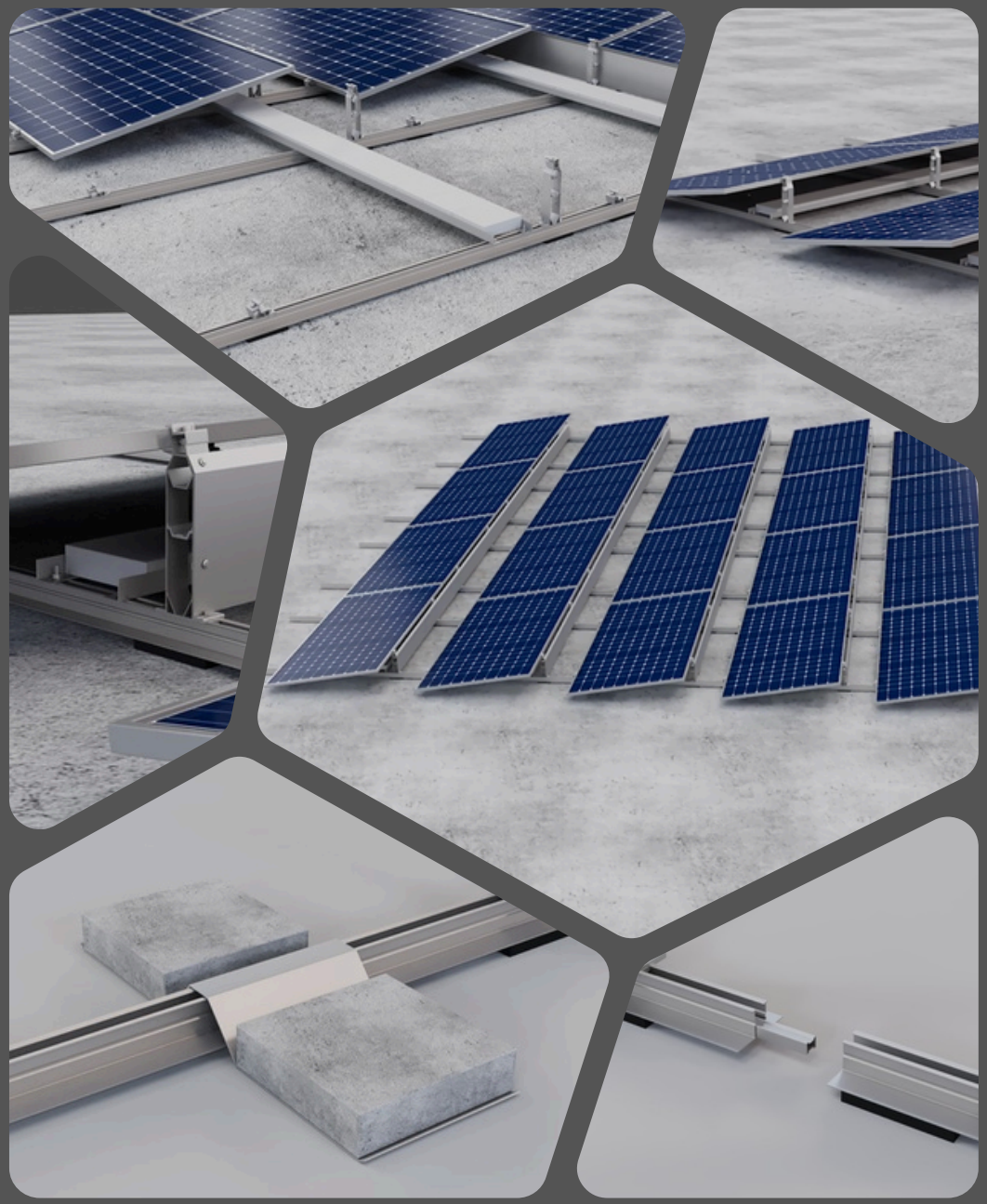
RAIL



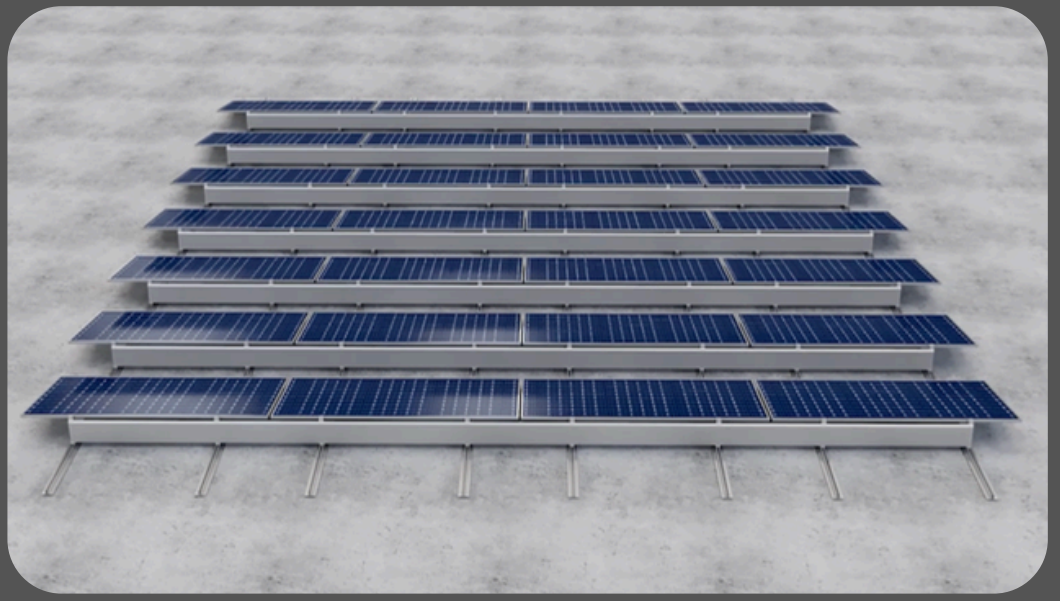
SUS 304
Ballast Tray



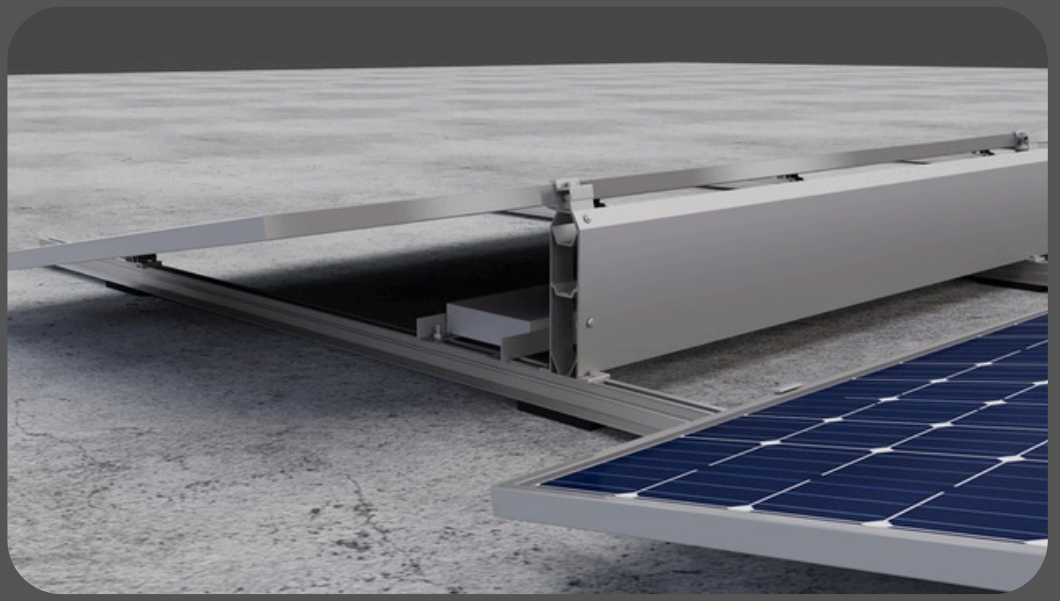








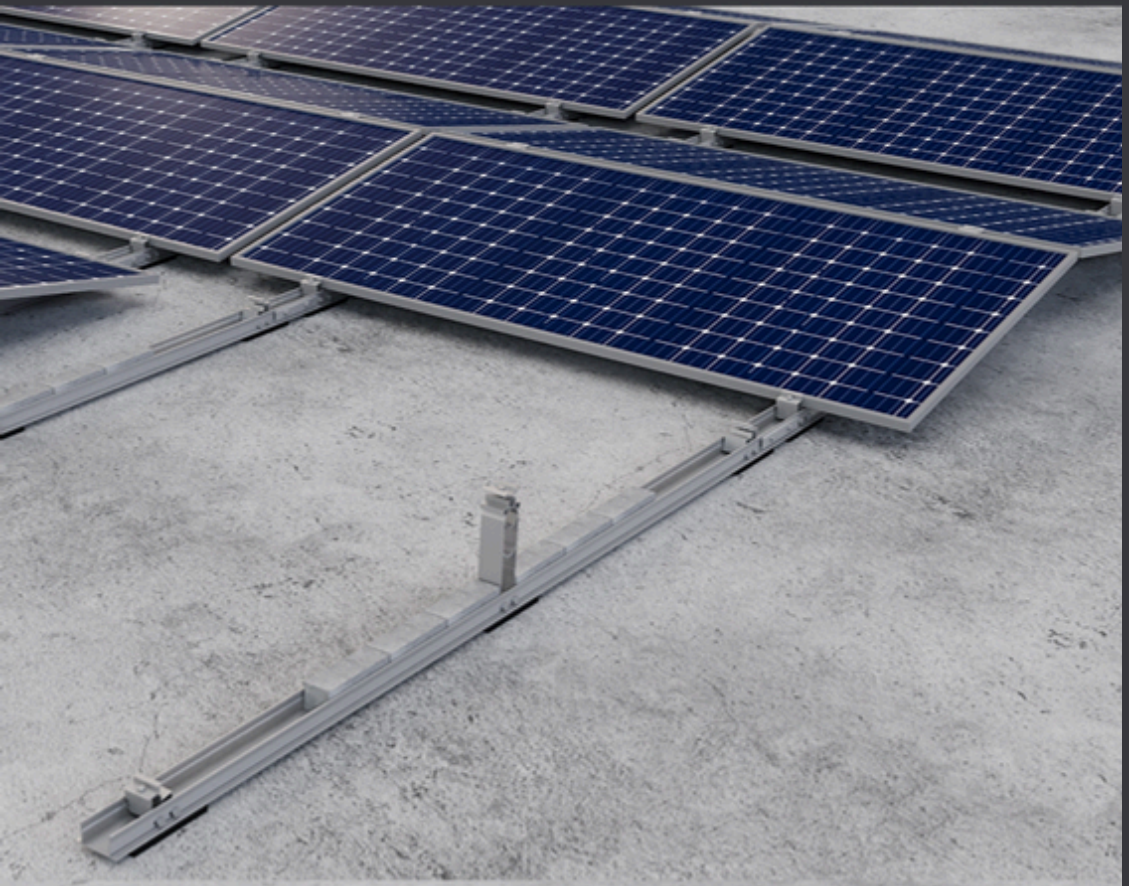




ONENESS
Solar Mounting Systems

Mount With CONFIDENCE!

BALLASTED
MAX SYSTEM
EAST-WEST



Visit Us
onenesspvsystems.com

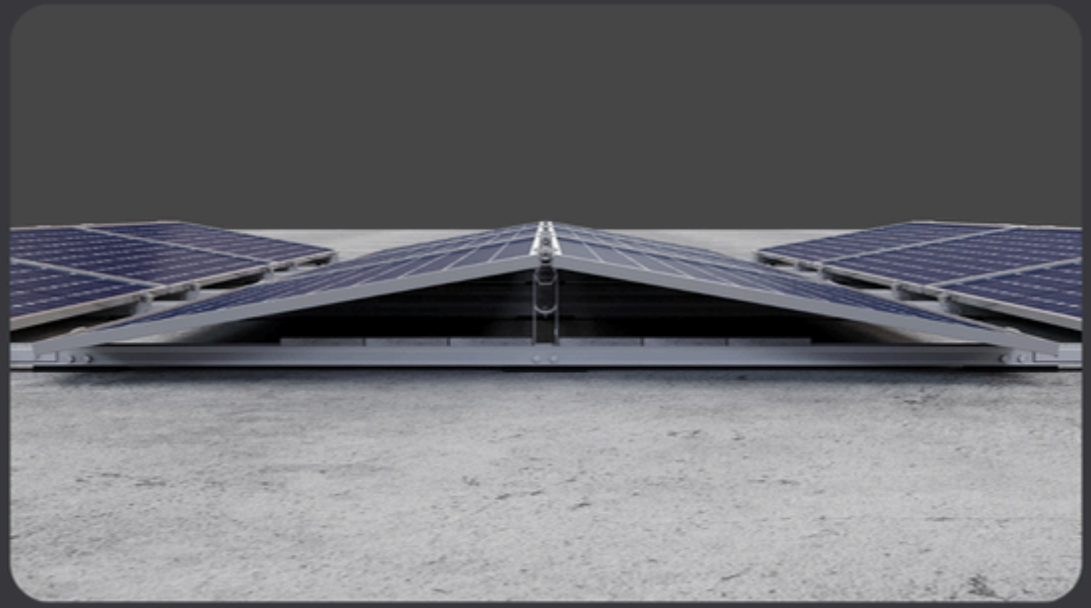
Contact Us
+86 186 2100 6801

System Description

Rail-based Racking System
for mounting framed PV modules on flat roofs.

Superior Aesthetic Design

For Flat Roofs - East-West 10° and 15° Tilt



Precision
in every mount!

- ✓ Module sizes up to 1303 x 2384 mm
- ✓ Low point loads Short-side clamping
- ✓ Suitable for high wind and snow loads
- ✓ Flexible system with few components
- ✓ Preassembled components, plug & play

E-mail: info@onenesspvsystems.com

ONENESS
Solar Mounting Systems

Technical Data:

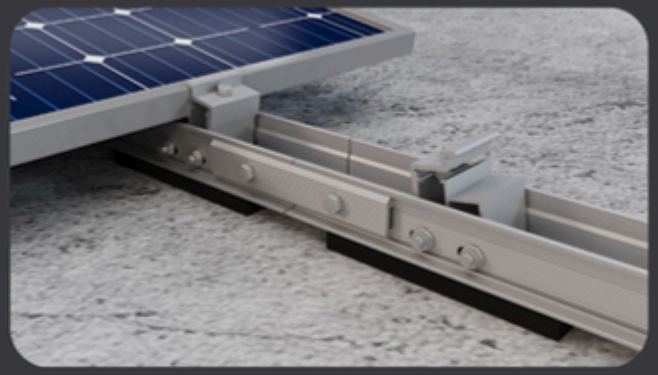
Product Code	OPVS – MAX10 – MAX15 (Ballasted – MAX System)
Material	AL 6005-T5 - Anodised finish
Fasteners	Stainless Steel 304/316
Rail Pad	EPDM foam pad with 3M adhesive sticker
Tilt / Angle	10° and 15° (may vary slightly depending on module width)
PV Module Orientation	Horizontal / Landscape
Module Dimention	950–1303mm x 1550–2384mm (width x length)
Distance to Roof Surface	Approx. 70 mm, less on gravel roofs
Distance from the Roof Edge	Without parapet to roof edge, with parapet, dependent on its height
Max. Building Height	35m (adaptation to higher buildings on request)
Max. Roof Inclination	Up to 3° in the case of long rail structure, 5° in the case of connected or short rail structure
On-Site Requirements	It must be ensured that the roof structure and building structure have the sufficient structural load-bearing capacity and that the roof structure has sufficient compressive load-bearing capacity.
Components	Module clamps with grounding plates, base rails, front foot, rear foot, building protection EPDM pads, wind shields - deflectors, ballast trays, ballast blocks (provided by the customer)

E-mail: info@onenesspvsystems.com

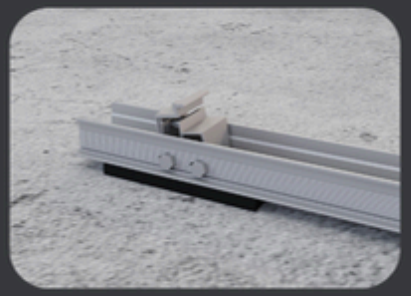
ONENESS Solar Mounting Systems

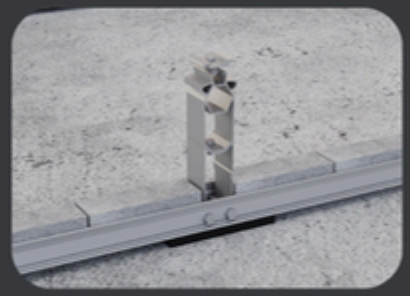
System Components

COMPONENTS LIST:



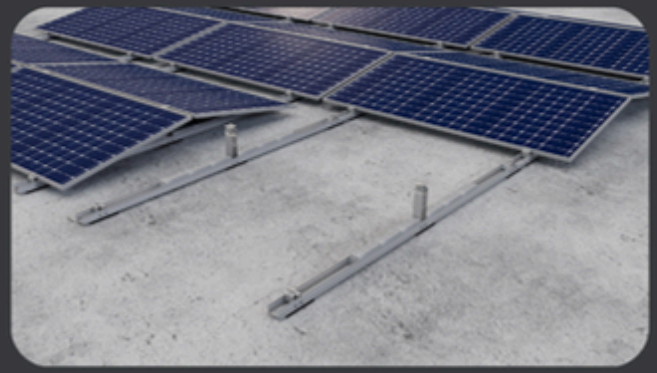
RAIL
FRONT LEG
REAR LEG
EPDM pad
Rail Connector







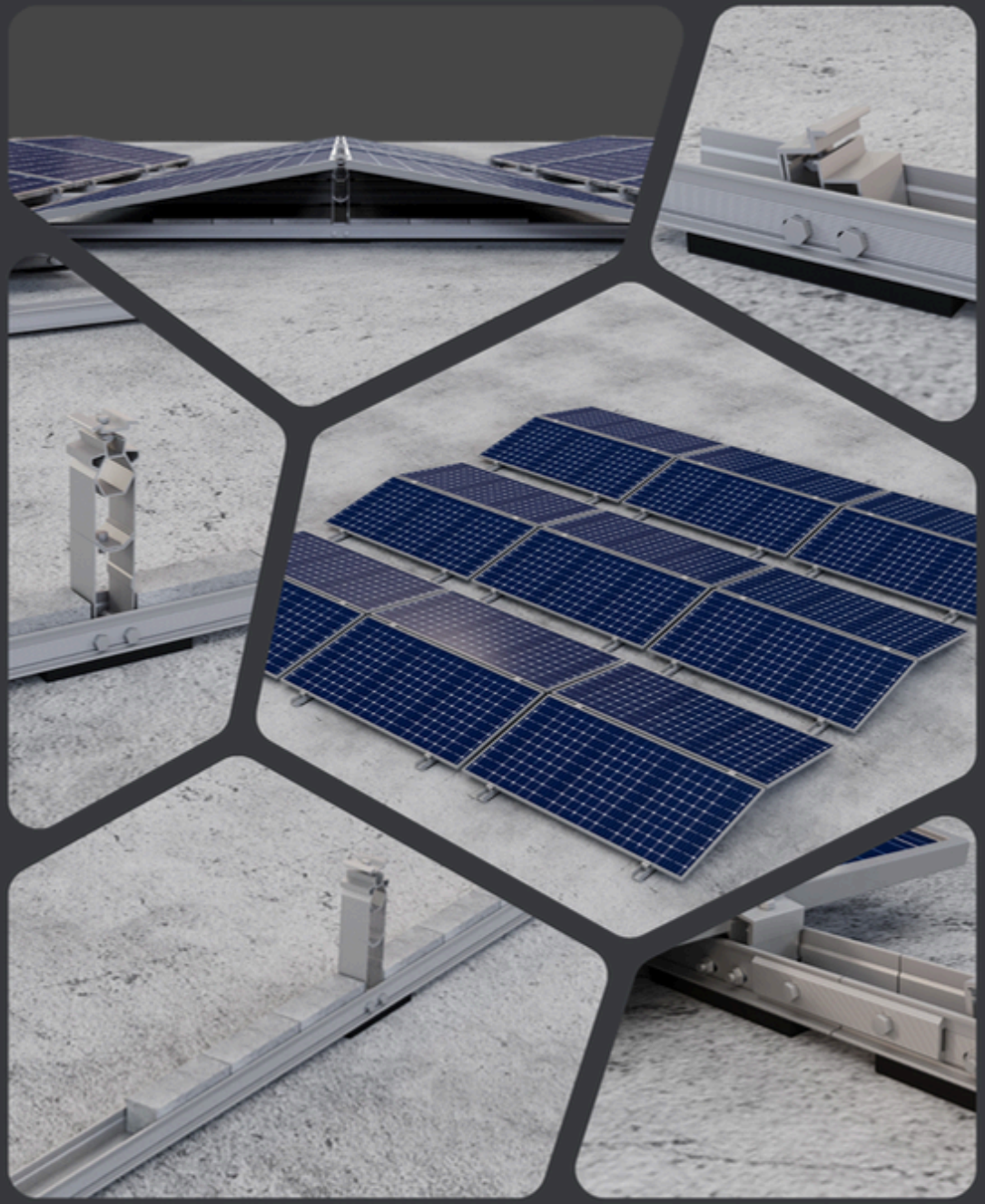
EPDM



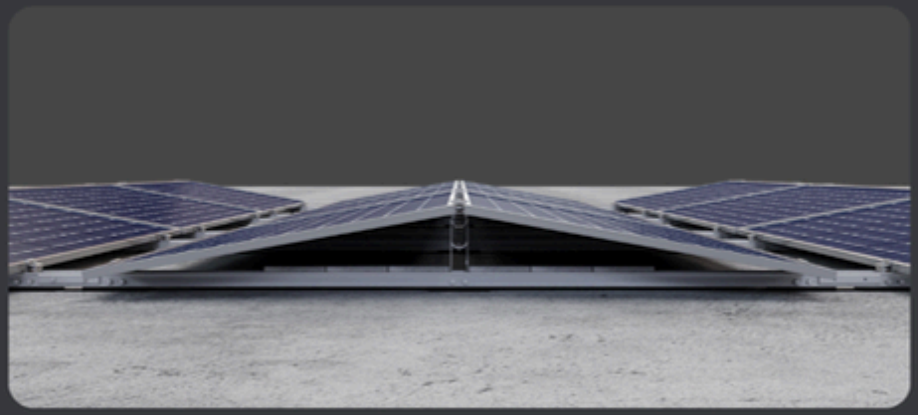
E-mail: info@onenesspvsystems.com

ONENESS Solar Mounting Systems

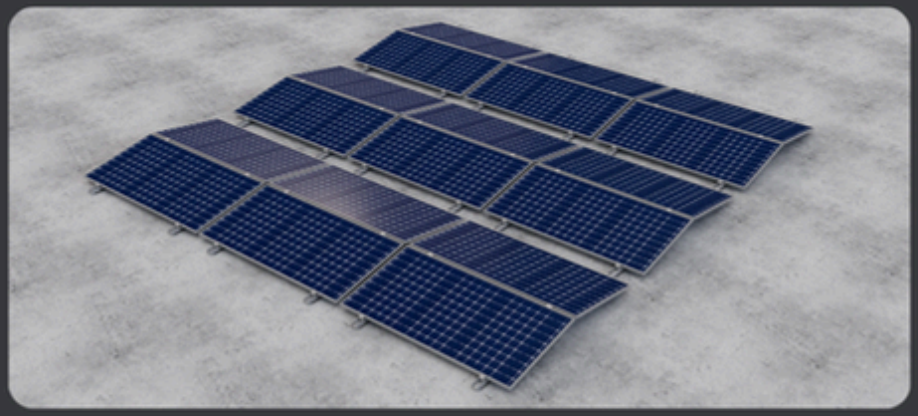
Appearance



Appearance







E-mail: info@onenesspvsystems.com

ONENESS
Solar Mounting Systems

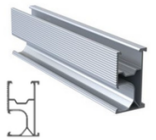
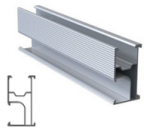
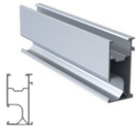
TILE ROOF Solar Mounting Systems

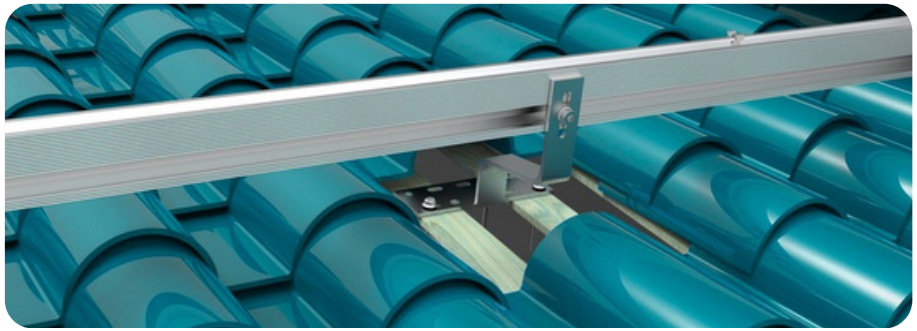


Why Choose ONENESS Roof Hook System?

- Stainless Steel Strength – Made from high-grade SUS 304 stainless steel, our roof hooks deliver superior mechanical strength and corrosion resistance, ensuring long-term durability even in harsh climates.
- Universal Compatibility – Designed to work with flat, Roman, Spanish, and other common tile types, as well as with ONENESS and industry-standard mounting rails.
- Adjustable & Flexible – The adjustable slots allow for fine-tuning of height and positioning, making installation easier on uneven roofs.
- Installer-Friendly – Quick and simple to install, reducing labor costs and saving valuable time on-site.



Rails	SR52	SR55	SR62
Technical data			
Material	Aluminium (AL-6005 T5)		
W = width [mm]	29.55	29.55	29.55
H = height [mm]	52	55	62
Lengths [m]	Any length up to 6000mm		
Weight [kg/m]	0,69	0,72	0,83



Reliable and durable solution for installing solar panels on **tile roofs**. Specially designed to adapt to different tile types such as **flat tile, Roman tile, and Spanish tile** this system ensures a strong and stable connection between the roof structure and solar mounting rails without compromising roof integrity.

Manufactured from **high-strength stainless steel (SUS 304)**, the ONENESS Roof Hook delivers excellent **mechanical performance and corrosion resistance**, making it suitable for residential and commercial projects across diverse climates. Its **adjustable slots and height options provide installation flexibility**, allowing perfect alignment of solar modules while accommodating uneven roof surfaces.

By combining **ease of installation, compatibility with multiple rail types, and compliance with international load standards,** the ONENESS Roof Hook system guarantees long-term safety, stability, and efficiency for tile roof PV systems.

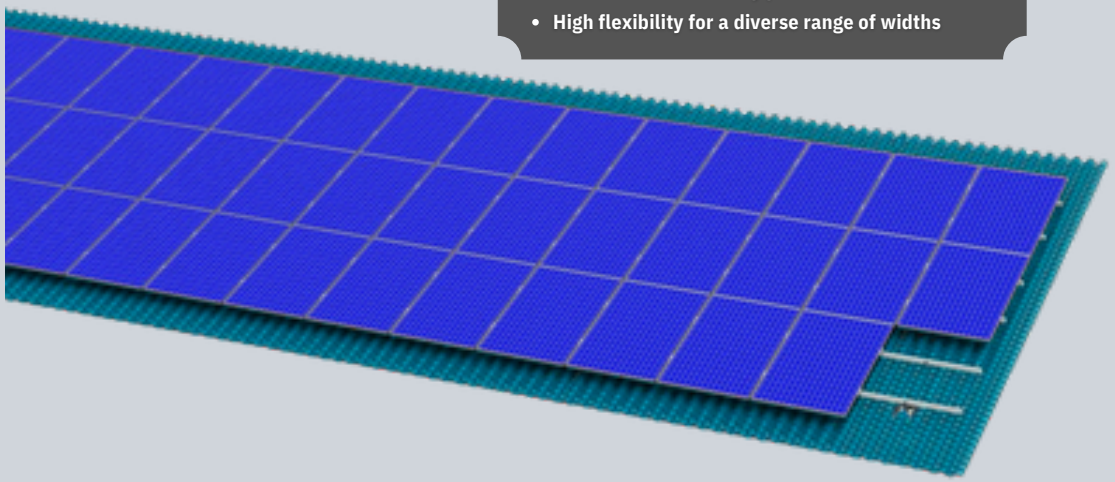
Perfect for:

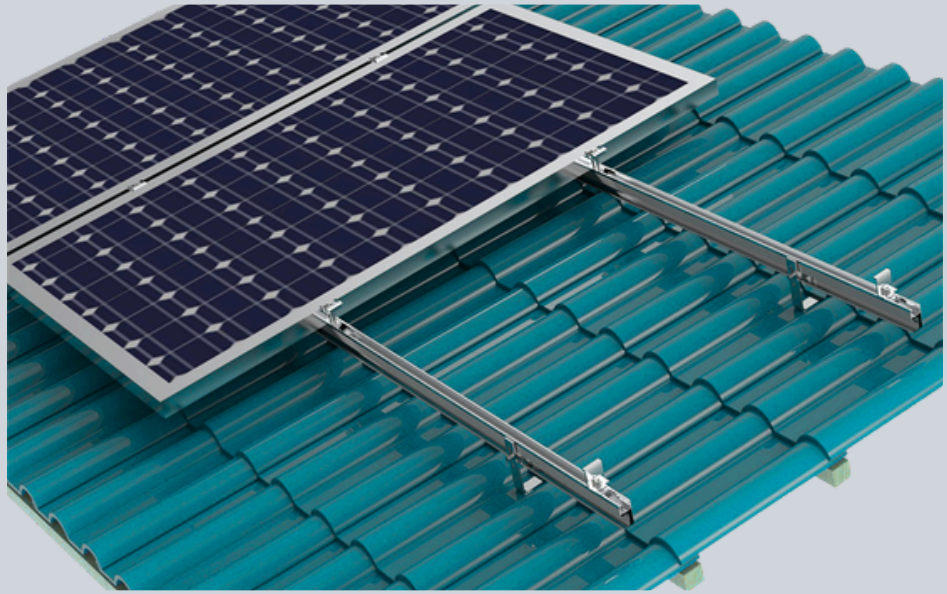
- **Residential tile roofs (small to medium projects)**
- **Commercial tile roof installations**
- **Installers seeking a proven, long-lasting solution with minimal maintenance**



PITCHED TILE ROOF
Solar Mounting Systems

- **Comprehensive range of mounting rails for varying load profiles**
- **Robust and structurally proven**
- **High flexibility for a diverse range of widths**





Product Specification

TILE ROOF SYSTEM

Stainles Steel Roof Hook Solar Mounting System



No. 1599 Pingzhuang West Road, Fengxian, Shanghai, People's Republic of China
+86-186-2100-6801
info@onenesspvsystems.com

ONENESS
Solar Mounting Systems
Partner In Solar

Product Specification OPVS-SRH-101

Two Parts Roof Hook - One Point Of Adjustment

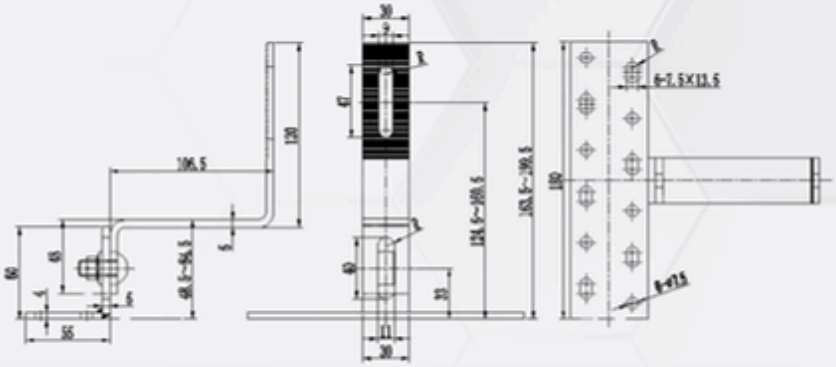
Name: Stainless Steel 1-point Adjustable Roof Hook

Code: OPVS-SRH-101

BOM:
Bottom Plate (SUS304) x1
Upper Hook Part (SUS304) x1
*M10*30 Carrige Bolt (SUS304) x1*
M10 Flange Nut (SUS304) x1
*ST6.3*80 Self-Tapping Wood Screw (SUS 410) x3*
Rail Fastener Set x 1



No.	Item Code	Dimensions			Weight (Kg)	Remark
		Bottom Plate	Upper-1	Fasteners		
1	OPVS-SRH-101	SUS304	SUS304	SUS304	0.698	Carton size: 54*22*20cm / 28pcs per carton



No. 1599 Pingzhuang West Road, Fengxian, Shanghai, People's Republic of China
+86-186-2100-6801
info@onenesspvsystems.com

Product Specification

OPVS-SRH-103

Two Parts Roof Hook - One Point Of Adjustment

Web
onenesspvsystems.com

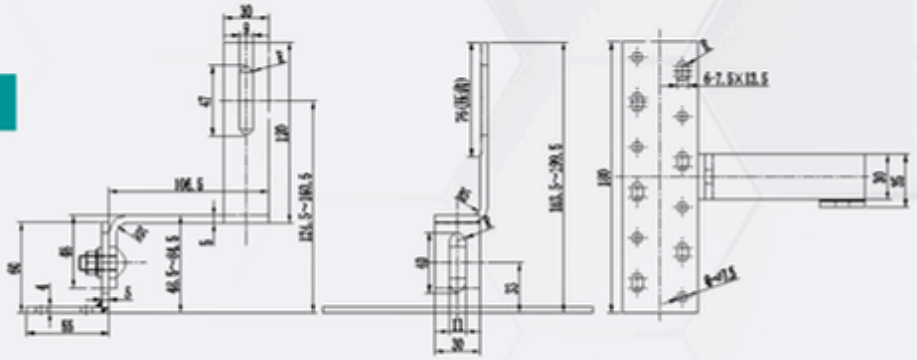
Name: Stainless Steel 1-point Adjustable Roof Hook

Code: OPVS-SRH-103

BOM:
Bottom Plate (SUS304) x1
Upper Hook Part (SUS304) x1
*M10*30 Carrige Bolt (SUS304) x1*
M10 Flange Nut (SUS304) x1
*ST6.3*80 Self-Tapping Wood Screw (SUS 410) x3*
Rail Fastener Set x 1



No.	Item Code	Dimensions			Weight (Kg)	Remark
		Bottom Plate	Upper-1	Fasteners		
1	OPVS-SRH-103	SUS304	SUS304	SUS304	0.692	Carton size: 54*22*20cm / 22pcs per carton



No. 1599 Pingzhuang West Road, Fengxian, Shanghai, People's Republic of China
+86-186-2100-6801
info@onenesspvsystems.com

ONENESS
Solar Mounting Systems
Partner In Solar

Product Specification

OPVS-SRH-110

Three Parts Roof Hook - Two Points Of Adjustment

Web
onenesspvsystems.com

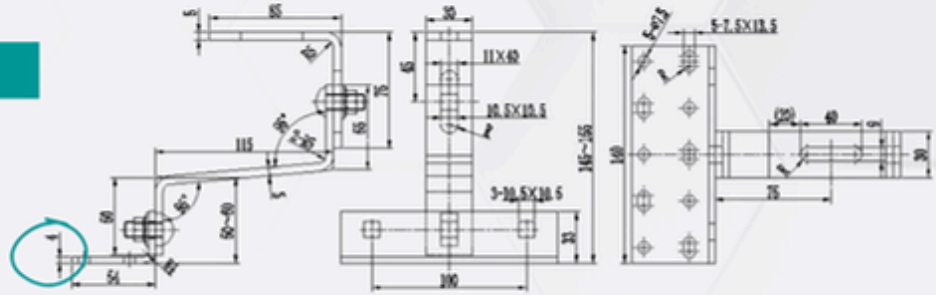
Name: Stainless Steel 2-point Adjustable Roof Hook

Code: OPVS-SRH-110

BOM:
Bottom Plate (SUS304) x1
Middle Hook Part (SUS304) x1
Top Hook Part (SUS304) x1
*M10*30 Carrige Bolt (SUS304) x2*
M10 Flange Nut (SUS304) x2
*ST6.3*80 Self-Tapping Wood Screw (SUS 410) x3*



No.	Item Code	Dimensions				Weight (Kg)	Remark
		Bottom Plate	Upper-1	Upper-2	Fasteners		
1	OPVS-SRH-110	SUS304	SUS304	SUS304	SUS304	0.850	Carton size: 54*22*20cm / 20pcs per carton



No. 1599 Pingzhuang West Road, Fengxian, Shanghai, People's Republic of China
+86-186-2100-6801
info@onenesspvsystems.com

Product Specification

OPVS-SRH-113

Three Parts Roof Hook - Two Points Of Adjustment

Web
onenesspvsystems.com

Name: Stainless Steel 2-point Adjustable Roof Hook

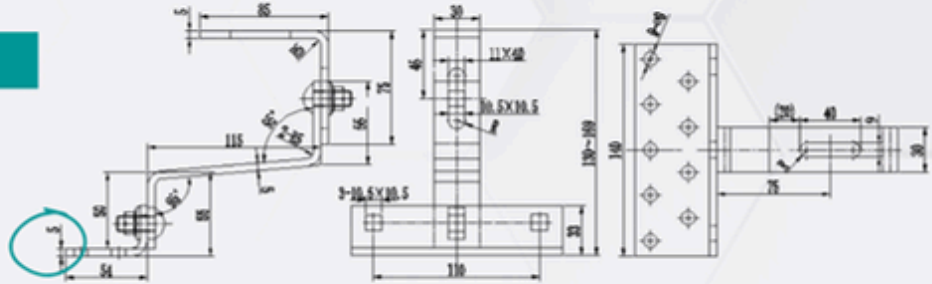
Code: OPVS-SRH-113

BOM:

Bottom Plate (SUS304) x1
Middle Hook Part (SUS304) x1
Top Hook Part (SUS304) x1
*M10*30 Carrige Bolt (SUS304) x2*
M10 Flange Nut (SUS304) x2
*ST6.3*80 Self-Tapping Wood Screw (SUS 410) x3*



No.	Item Code	Dimensions				Weight (Kg)	Remark
		Bottom Plate	Upper-1	Upper-2	Fasteners		
1	OPVS-SRH-113	SUS304	SUS304	SUS304	SUS304	0.940	Carton size: 54*22*20cm / 20pcs per carton



No. 1599 Pingzhuang West Road, Fengxian, Shanghai, People's Republic of China
+86-186-2100-6801
info@onenesspvsystems.com

ONENESS
Solar Mounting Systems
Partner In Solar

Product Specification

OPVS-SRH-1305

Two Parts Roof Hook - One Point Of Adjustment

Web
onenesspvsystems.com

Name: Stainless Steel 1-point Adjustable Roof Hook

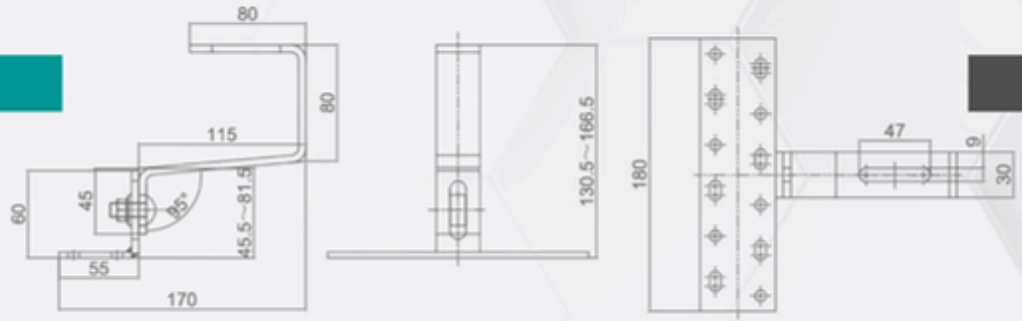
Code: OPVS-SRH-1305

BOM:

Bottom Plate (SUS304) x1
Upper Hook Part (SUS304) x1
*M10*30 Carrige Bolt (SUS304) x1*
M10 Flange Nut (SUS304) x1
*ST6.3*80 Self-Tapping Wood Screw (SUS 410) x3*



No.	Item Code	Dimensions			Weight (Kg)	Remark
		Bottom Plate	Upper-1	Fasteners		
1	OPVS-SRH-1305	SUS304	SUS304	SUS304	0.790	Carton size: 54*22*20cm / 20pcs per carton



No. 1599 Pingzhuang West Road, Fengxian, Shanghai, People's Republic of China
+86-186-2100-6801
info@onenesspvsystems.com



ONENESS
Solar Mounting Systems
Partner In Solar

NOTES

Visit Us
onenesspvsystems.com
Contact Us
+86 186 2100 6801

ONENESS
Solar Mounting Systems

Web

WhatsApp

SHANGHAI ONENESS TECH CO., LTD.

Tel.: 0086 186 2100 6801
E-mail: info@onenesspvsystems.com
Web: www.onenesspvsystems.com
Add: No. 1599, Pingzhuang West Road, Fengxian, Shanghai

Contacts