



**RRACKS**<sup>®</sup>

# YOUR SOLAR INSTALLATION PARTNER

RRACKS<sup>™</sup> PRODUCT CATALOGUE | 2023

RRACKS™ WHO WE ARE

## We are RRACKS™

**A Solar Engineering company specialising in the best quality solar mounting structures available on the market.**

We have many years of experience designing and producing the fastest solar mounting solutions in the industry. RRACKS™ has specialised in meeting all of the manufacturing standards such as the AS/NZ 1170, which means our structures are designed to the highest degree of strength and quality.

RRACKS™ has been able to continually improve the standard of its structures with our expert teams from USA, Europe, Asia and Australia. This team collectively has over 25 years of experience in the solar EPC industry.

In order to create RRACKS™, our team of solar engineering experts collaborated with the leading manufacturing company in China which has over 30 years of experience in manufacturing under their belt. This combination of the two leading companies within their individual fields has produced outstanding products made to the highest standards in terms of quality and design - all while being affordable.

We are committed to continually growing alongside our customers so that, as trends develop, we can fulfill their needs. That is why no project is too big or too small; location is not an issue as we execute projects on a global scale. We are a financially structured company with the bankability to execute solar mounting projects at any scale - whether it is a ground or roof structure, we can produce it for you.



RRACKS™ CONTACTS

# OUR GLOBAL FOOTPRINT

### THAILAND OFFICE

📍 T-One Building, Room 17-106, Phra Khanong, Khlong Toei, Bangkok 10110, Thailand  
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### AUSTRALIA OFFICE

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 ✉️ sales@rracks.com

### FRANCE OFFICE

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 ✉️ sales@rracks.com

### USA OFFICE

📍 3404 American Drive, unit 3307, Lago Vista 78645, TX, USA  
 ✉️ sales@rracks.com



RRACKS™ WHY CHOOSE US

# OUR PROMISE



## GUARANTEED 12-YEAR WARRANTY

RRACKS™ uses only the highest quality aluminiums, stainless steel, and galvanised raw materials to manufacture quality solar mounting solutions. RRACKS™ products are backed by a 12-year guarantee which can be extended up to 25 years for large scale and commercial projects.



## EXPERT ENGINEERING SERVICES

With so many years of experience in the solar industry, RRACKS™ has always been committed to providing its clients with the very best solutions and designs to get the job done. No challenge is too great or too small as no two solar projects are ever the same. RRACKS™ understands this better than anyone.



## EASE OF INSTALLATION

Time is money. We understand that the most important part of solar PV solar installation is time, which is why all of our products are carefully designed for quick installation. With years of experience in dealing with solar installers, RRACKS™ understands just how important it is to have a safe and reliable system that can be installed quickly and efficiently.



## EXCEPTIONAL MANUFACTURING

Our group has more than 30 years' experience in manufacturing aluminium and steel components strictly under ISO 9001 manufacturing standards with quality at the forefront of RRACKS™'s manufacturing program. We will work with our customers to get the best quality products delivered on time, every time.



## WIDE ARRAY OF DESIGN

RRACKS™ has a team of engineers that's always ready to assist our customers, even helping them design a solar mounting solution. Whether it be a small roof or a large scale utility solar farm, our team is always ready to help. We have years of experience in rooftop layout and design, especially when it comes to dealing with different soil and wind conditions.



## EFFECTIVE LOGISTICS MANAGEMENT

Getting your products on time is crucial in today's fast-paced world. Our company is committed to keeping your stock secured in our warehouse. From handling shipping to clearance documents, our dedicated staff will make sure your shipment reaches your door safe and sound.



RRACKS™ OUR PEOPLE

# PETER SECOMBE

MANAGING DIRECTOR, RRACKS™



Peter Secombe has been in the solar business for the past 14 years and he was heavily involved in the design and manufacturing of solar mounting structures for companies all over the world; including Japan, Australia, New Zealand, South Africa, Europe, the Philippines and Thailand. Peter has been involved in many solar projects in South East Asia, working with large Solar companies such as Super Energy, SPCG, Thai Solar Energy, who between them have installed more than 1GW of solar farms in the region.

Peter has also gained years of experience in working with Solar developers, Engineering Procurement Construction and solar professionals all over the world being involved in more than 300MW of solar projects. This experience gives him the edge when consulting and planning solar projects.

Design and engineering is a passion within Peter's skill set. For the past 10 years he has run a team of design engineers working on designing and manufacturing solar mounting structures that are not only cost-effective in the manufacturing process but are superfast to install.

Peter has worked with the AS/NZ 1170 code for many years always designing products to strict Australian standards while always focusing on quality to outlast the competition.



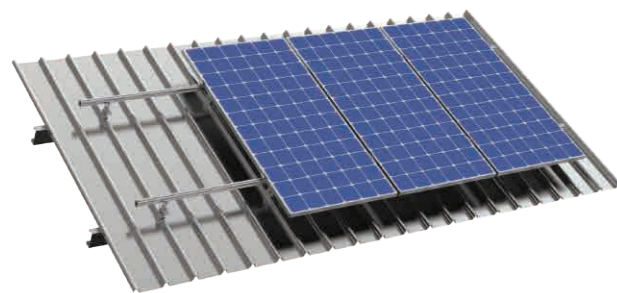


RRACKS™ WHAT WE DO

## ROOF MOUNT SOLUTIONS

With many years of experience in both residential and commercial solar rooftop solutions, RRACKS™ understands the various challenges rooftop solar can bring. Having specially designed solar roof mounting solutions for countries all over the world such as USA, Australia, UK, South Africa and Japan - RRACKS™ is your number one partner for all mounting solutions.

Designed with swift installation in mind, RRACKS™ understands that the most important aspect for any installation company is efficiency and convenience; to spend the shortest amount of time possible when it comes to roof installations. Our many years of experience have allowed us to design and produce the fastest solar mounting solution available in the solar industry today.



Our solar mounting solutions are all designed to AS/NZ 1170 standards, meaning that all RRACKS™ solar structures are designed and manufactured with the highest degree of strength and quality.

RRACKS™ WHAT WE DO

## FOLDABLE & ADJUSTABLE TILT KITS

RRACKS™ Foldable Tripod Kits are built for easy transportation and speedy installation. Simply unfold the tilt leg to the required tilt angle on your roof, and easily attach cross rails with our cross brace connector in a matter of seconds.

Like all RRACKS™ products, our foldable and adjustable tilt kits are also engineered to AS/NZ 1170 standards as well - providing our clients quality solar structures that are designed and manufactured with strength and quality.



Available in 10 to 30 degree tilt angles, both legs are fully adjustable and can be easily secured into position with a single M8 screw.



RRACKS™ WHAT WE DO

# GROUND MOUNT SOLUTIONS

RRACKS™ ground mount systems are designed for all types of geological locations worldwide. Whether it be in the harshest deserts or within challenging alpine snow areas, we have the right solar mounting solution for your valuable project.

We specialise in a variety of solar ground mount products from aluminium, to steel, to hybrid configurations to suit your specifications that still fit within your budget. With years of experience in both design and deployment, RRACKS™ is your trusted partner when procuring your next utility scale solar ground mount system.

The RRACKS™ Aluminium Clamp Rail landscape system is a hybrid system that consists of both the highest quality 6000 series aluminium and rock-solid galvanized steel with an 80 micron coating. The slot rail system is also available in a variety of configurations, with your choice of either ballast or screw pile footing configuration.

The unistrut clamp rail landscape system is our all-steel ground mount system that uses the same framing system as the forementioned. It also consists of rock-solid galvanised system with an 80 micron coating. Similar to other ground mount solar mounting solutions, it comes with a variety of configurations including your choice of ballast or screw pile footing.

## GROUND SCREWS

We have a full selection of galvanised ground screws. Our experienced engineering team will identify the screw type needed for your mount system, taking into account the terrain and wind speed in your area.

There are three types of flange head ground screws available: multi-thread, twin blade, and four blade.



GROUND MOUNT FRAMING



RRACKS™ OUR CAPABILITIES

# EARLY WORK STUDIES AND CAPABILITIES

Commonly, engineers representing Banks and Financiers will most likely want to see the following studies to finalise funding.

Our team has been involved in every aspect of engineering services for many large scale projects. We offer stamped and certified documents for funding institutions, insurance or EPC companies.

- |   |  |
|---|--|
| 1 TOPOGRAPHIC & BOUNDARY STUDY          | 7 LIQUEFACTION POTENTIAL STUDY                   |
| 2 FLOOD STUDY & FLOOD PROTECTION DESIGN | 8 ROAD & DRAINAGE DESIGN                         |
| 3 SUB SURFACE INVESTIGATION             | 9 PV MODULE LAYOUT & ELECTRICAL SYSTEM DESIGN    |
| 4 FOUNDATION DESIGN & PILE TESTING      | 10 STRUCTURAL DESIGN & ENGINEERING SIGNOFF       |
| 5 SOIL CHEMICAL TESTING                 | 11 BESPOKE STRUCTURE DESIGN PROTOTYPING SERVICES |
| 6 WATER STORAGE (RESERVOIR) DESIGN      | 12 SOIL RESISTIVITY STUDY                        |



RRACKS™ OUR CAPABILITIES

# ENGINEERING CONSTRUCTION WORKS

RRACKS™ can take care of the following services for your solar farm project. With years of experience in rooftop, ground mount and utility scale projects, our team can design and manufacture solar mounting structures, as well as assist in the construction process.

- |                                    |                          |
|------------------------------------|--------------------------|
| 1 EARTH WORKS & DRAINAGE           | 5 MODULE INSTALLATION    |
| 2 LAND SURVEY & PILE POINT MARKING | 6 CABLE TRENCH           |
| 3 PILE INSTALLATION                | 7 DC CONNECTION          |
| 4 MOUNTING INSTALLATION & ASSEMBLY | 8 GROUNDING INSTALLATION |



RRACKS™ OUR CAPABILITIES

# PROJECT MANAGEMENT CONSULTANCY

The RRACKS™ team of engineers have been in the solar farm business for more than 20 years, both leading and consulting on more than 200 MW solar farm projects globally.

- 1 SITE MANAGEMENT
- 2 STAFF INSTALLATION TRAINING
- 3 SAFETY TRAINING
- 4 PLANNING & DESIGN
- 5 LOGISTICS PLANNING
- 6 SCHEDULE & BUDGET PLANNING



RRACKS™ OUR PROJECTS

# PROJECTS GALLERY



JAPAN



785 KW ROOFTOP



MALAYSIA



1 MW ROOFTOP



350 KW ROOFTOP



AUSTRALIA



584 KW ROOFTOP



300 KW ROOFTOP



158 KW ROOFTOP



THAILAND



700 KW ROOFTOP



1 MW ROOFTOP



5 MW ROOFTOP





## NORTHERN THAILAND

**CAPACITY** 3.5 MW

**SCOPE OF WORK** Engineering, Solar Mounting,  
Walkways and Cable Management Solutions



RRACKS™ OUR SOLUTIONS

# INNOVATIVE ENGINEERING SOLUTIONS

1 ROOF MOUNT

2 ROOF KITS

3 GROUND MOUNT

4 GROUND SCREWS

5 WALKWAY

6 EDGE PROTECTION

7 CABLE MANAGEMENT

8 SKYLIGHT PROTECTION

9 CARPORTS

10 WATERPROOF ROOF

## ROOF MOUNT

Made from our 6000 series high strength aluminium, RRACKS solar mounting is made following high-tech, tested and certified proprietary designs. Years of experience in the solar industry have come together to create the RRACKS™ range and make sure that you have a fast and worry free installation.

### RRACKS CLICKNUT SYSTEM

The Clicknut System is the latest and most innovative design from RRACKS™. Designed to encapsulate our core values of high-tech design, worry free installation and highest quality, the clicknut system is our most advanced design to date. Engineered to save time, allow easy adjustability and make your installation as pleasant as possible thanks to our "one-touch spring loaded leveling system". Times saving of 30% allow you to offer more competitive offers to your clients.

### RED DOT RACK SYSTEM

The Red Dot Rack System is the legacy rooftop mounting system from RRACKS™. With a successful track record of over 600MW of rooftop installations. You can install the Red Dot Rack rooftop mounting and take advantage of the original 3 step effortless grounding system.

### RRACKS UNIVERSAL SOLUTIONS

RRACKS™ offer a wide range of tilt solutions, brackets and accessories to be installed with either the Clicknut system and the Red Dot Rack system. Mount your system on every type of roof by choosing the matching bracket is made simple with our dedicated engineering support.

### RRACKS BLACK SERIES

The RRACKS™ Black Series is the more high-end and sleek system. With our high quality electrolytic black anodized aluminium, you can ensure a minimal visual footprint for your systems and make sure that our mounting matches your desire for a design oriented installation.



# RRACKS™ CLICKNUT SYSTEM

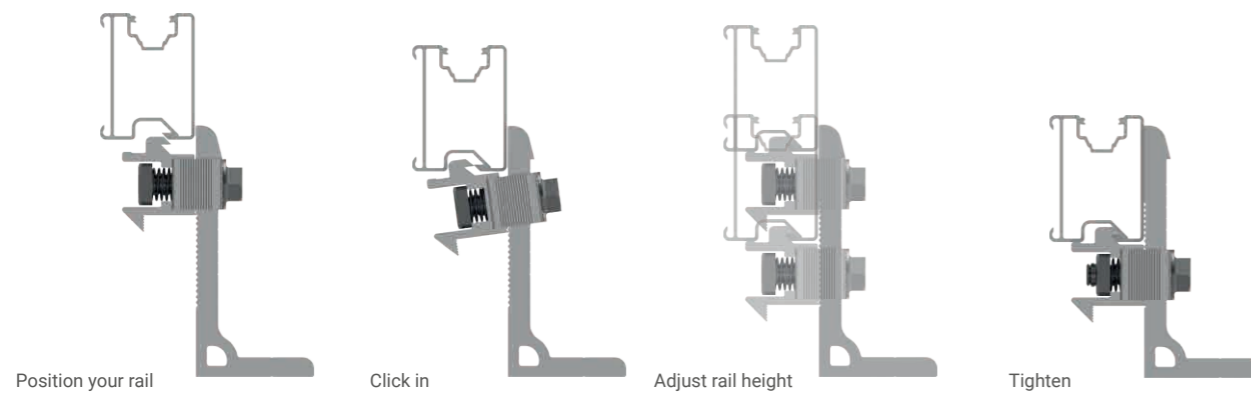
At RRACKS™ we always thrive to improve our designs to save you time and make the installation experience more interesting.

That's why we have developed the RRACKS™ Clicknut System, learning from our experience and coming up with a newer and more high-tech design to make your installation as easy as possible. Attach your rail in seconds, adjust as needed then tighten all in place.

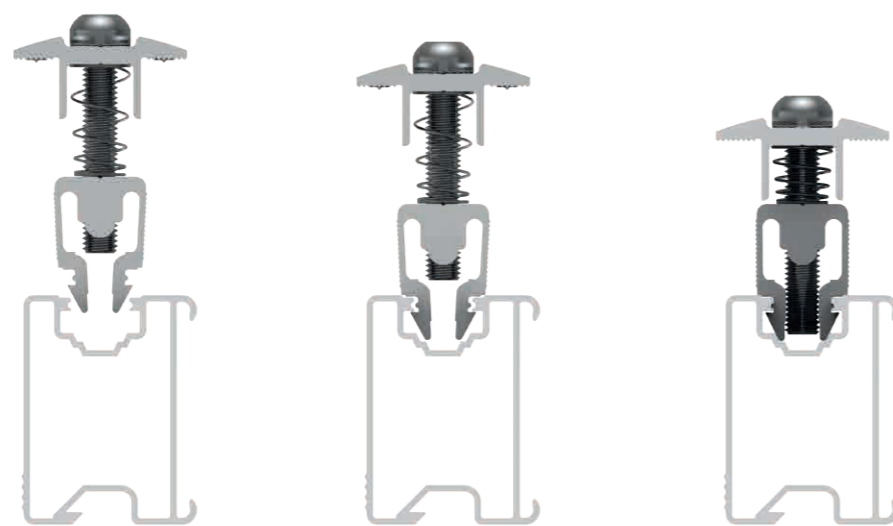
Better yet, the RRACKS™ Clicknut System works with the legacy Red Dot Rack System.

## SIMPLE INSTALLATION STEPS

The clicknut system is fast, easy and adjustable. Can be installed by following a couple of steps. Simply connects to the clicknut rail with our **one-touch spring loaded leveling system**, then adjust to the position you want and tighten to firmly hold in place.



## “Fast, easy and adjustable”



### Clicknut Rail

RRACKS™ High Strength Rail is designed for multiple roof types, used with RRACKS™ Clicknut clamps and brackets. For custom length, please call for more support. Check manuals for bracket spacing. Custom length available up to 6m.

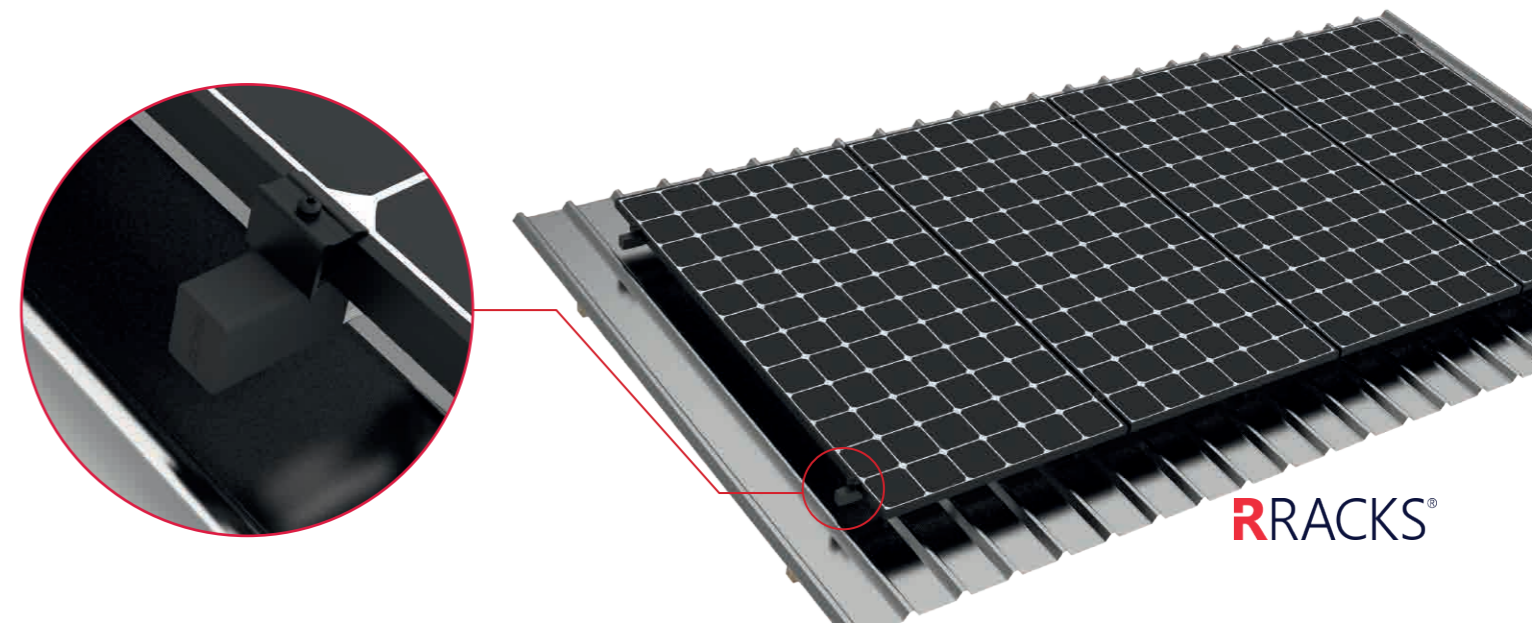
ITEM NO.	MATERIAL	SPEC	FINISH
300-0049E	AL 6005-T5	3580mm	Mill finish
300-0051E	AL 6005-T5	4730mm	Mill finish
300-0050E	AL 6005-T5	4350mm	Mill finish
300-0048E	AL 6005-T5	3300mm	Mill finish
300-0034E	AL 6005-T5	4200mm	Mill finish
300-0001CT	AL 6005-T5	4200mm	Anodized
300-0028CT	AL 6005-T5	4400mm	Anodized
300-0005CT	AL 6005-T5	2110mm	Anodized
300-0001TL	AL 6005-T5	4200mm Eco	Anodized
300-0013TL	AL 6005-T5	4800mm Eco	Anodized

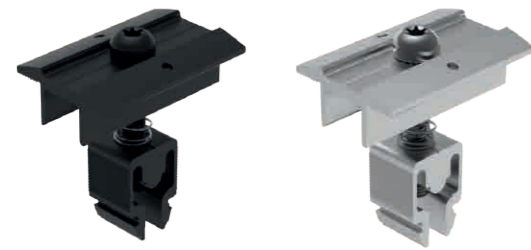


### End Caps

RRACKS™ Clicknut End Cap can be put on the end of the rails to ensure that the installation is fully black while using silver anodized or mill finished rails. For design conscious installations.

ITEM NO.	MATERIAL	SPEC	FINISH
147-0002	Automotive PP	Anti Aging	Matte

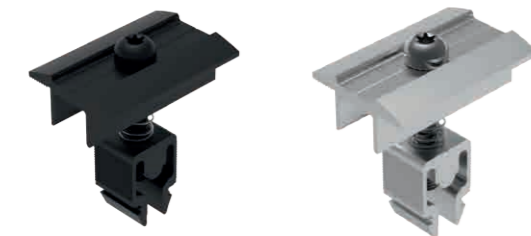




### Clicknut Mid Clamp

RRACKS™ Clicknut System mid clamp, can clamp panels from 30 to 40mm. With Earthing.

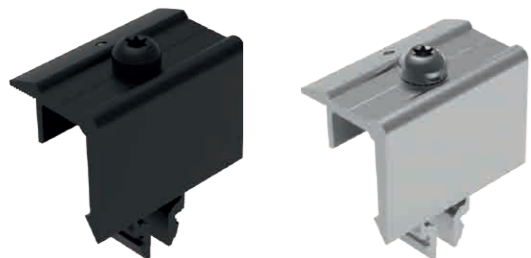
ITEM NO.	MATERIAL	SPEC	FINISH
301-0018	AL 6005-T5	30-35mm	Anodized
301-0019	AL 6005-T5	30-35mm	Black Anodized



### Clicknut Mid Clamp (no earthing)

RRACKS™ Clicknut System mid clamp, can clamp panels from 30 to 40mm.

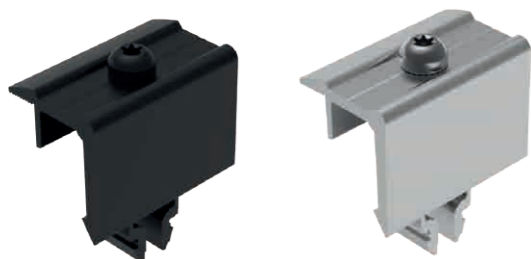
ITEM NO.	MATERIAL	SPEC	FINISH
302-0022	AL 6005-T5	30-35mm	Anodized
302-0023	AL 6005-T5	30-35mm	Black Anodized



### Clicknut End Clamp

RRACKS™ Clicknut System end clamp, can clamp panels from 30 to 40mm. With Earthing.

ITEM NO.	MATERIAL	SPEC	FINISH
302-0033	AL 6005-T5	30-35mm	Anodized
302-0034	AL 6005-T5	30-35mm	Black Anodized



### Clicknut End Clamp (no earthing)

RRACKS™ Clicknut System end clamp, can clamp panels from 30 to 40mm.

ITEM NO.	MATERIAL	SPEC	FINISH
302-0019	AL 6005-T5	30-35mm	Anodized
302-0021	AL 6005-T5	30-35mm	Black Anodized



### Clicknut Integrated Earthing Lug

Clicknut Integrated Earthing Lug is designed to attach and earth and earthing wire to the rail. Use for cable size <10mm<sup>2</sup>.

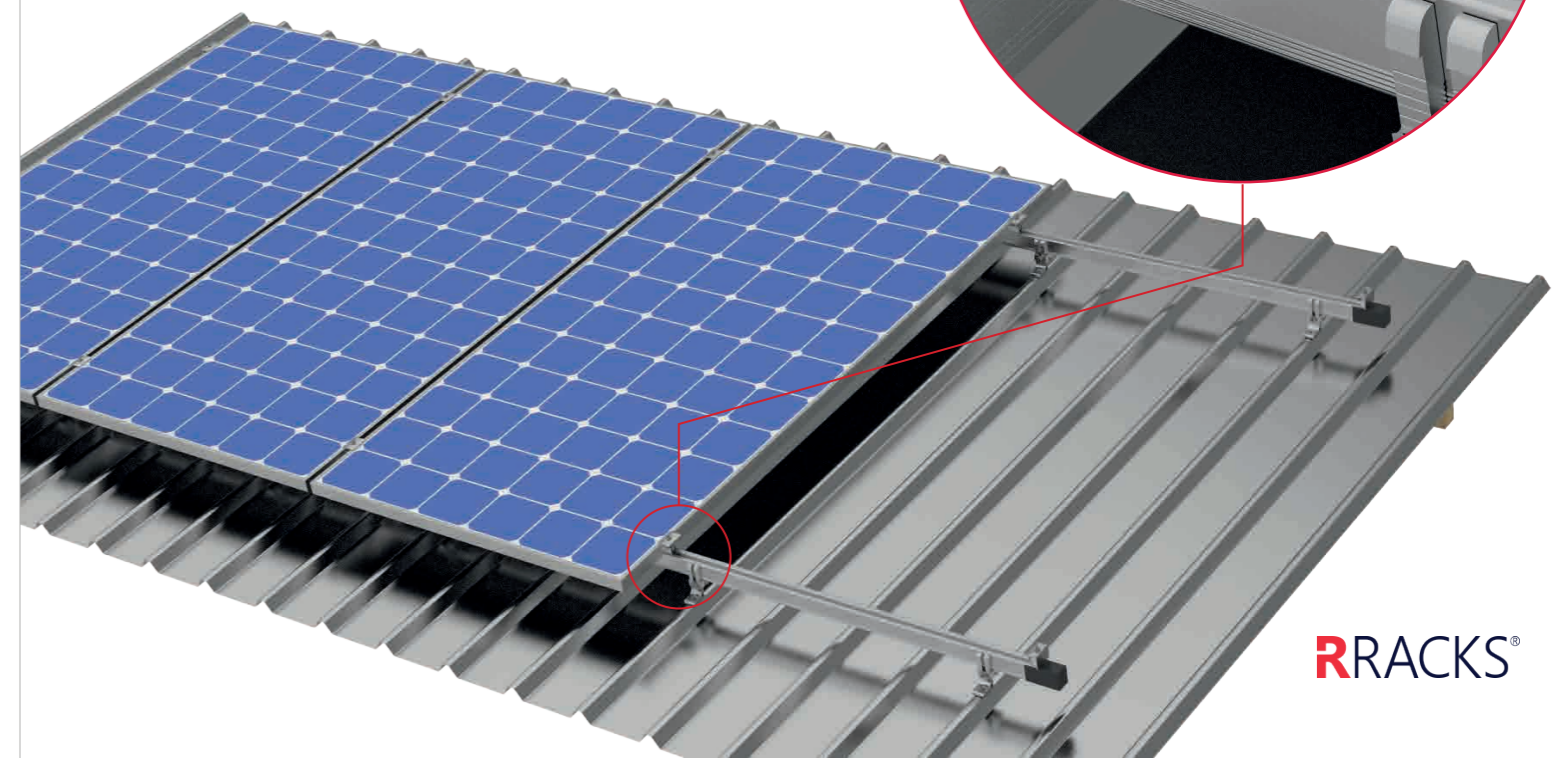
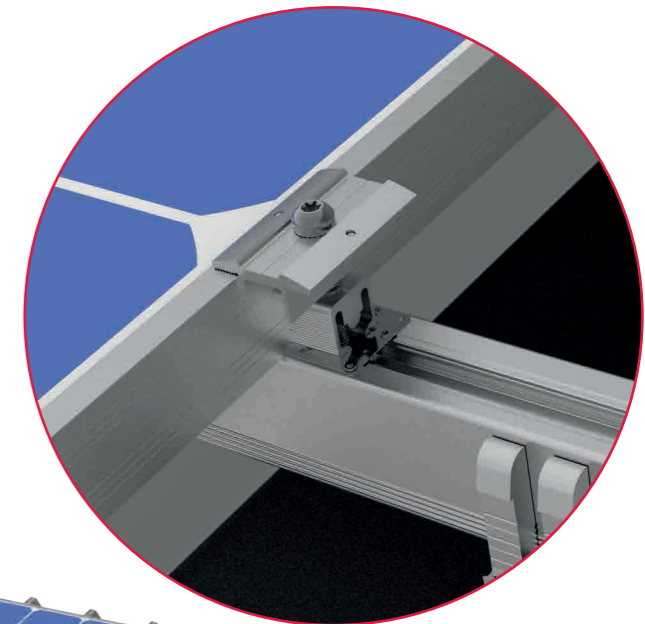
ITEM NO.	MATERIAL	SPEC	FINISH
305-0004	AL 6005-T5	59x20x27mm	Anodized

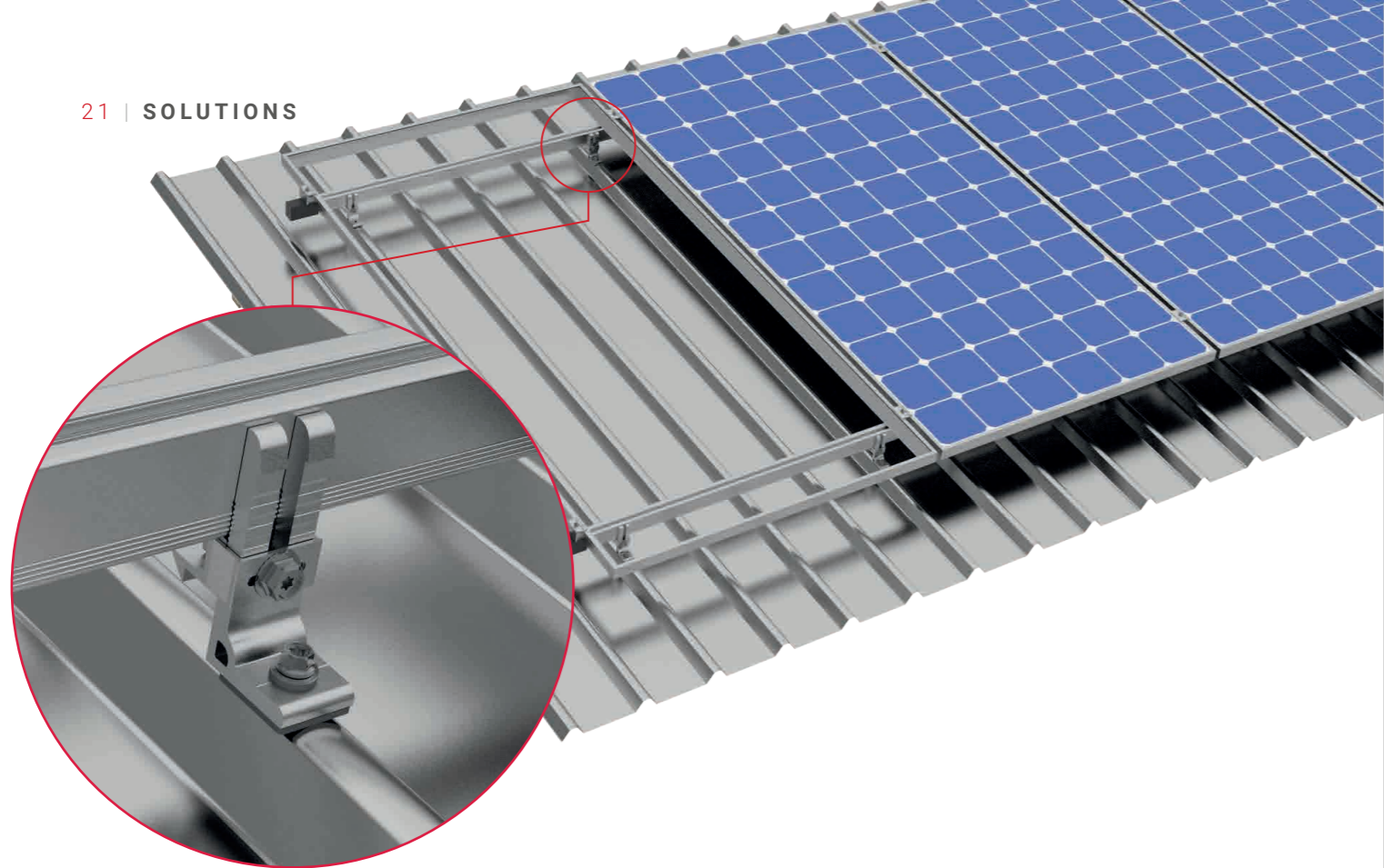


### Universal Earthing Washer

RRACKS™ Universal Earthing Washer has been designed to ensure safe earthing of your installation if you are not using integrated earthing clamps. It can also be used to earth your tilt tripod.

ITEM NO.	MATERIAL	SPEC
106-0008	Stainless Steel	52x29mm





### Clicknut Hook Connector

Hook Rail Connector for the RRACKS™ Clicknut Rail with the One-Touch Spring Loaded Levelling System. Can be adapted to all types of brackets. 30mm wide.



ITEM NO.	MATERIAL	SPEC	FINISH
319-0008	AL 6005-T5	30mm wide	Anodized
319-0009	AL 6005-T5	30mm wide Eco	Anodized

### Clicknut L-Bracket

L bracket for the RRACKS™ Clicknut System. Easily adjust your rail in seconds with the One-Touch Spring Loaded Levelling System. Exists both with and without EPDM rubber seal



ITEM NO.	MATERIAL	SPEC	FINISH
304-0013	AL 6005-T5	no EPDM	Anodized
304-0009	AL 6005-T5	with EPDM	Anodized
304-0023	AL 6005-T5	no EPDM	Black Anodized
304-0024	AL 6005-T5	with EPDM	Black Anodized
304-0018	AL 6005-T5	no EPDM Eco	Anodized
304-0014	AL 6005-T5	with EPDM Eco	Anodized



### Corrugated Roof Bracket

RRACKS™ Clicknut System bracket to be used on corrugated roof for maximum stability. Connect to the rail with the One-Touch Spring Loaded Levelling System

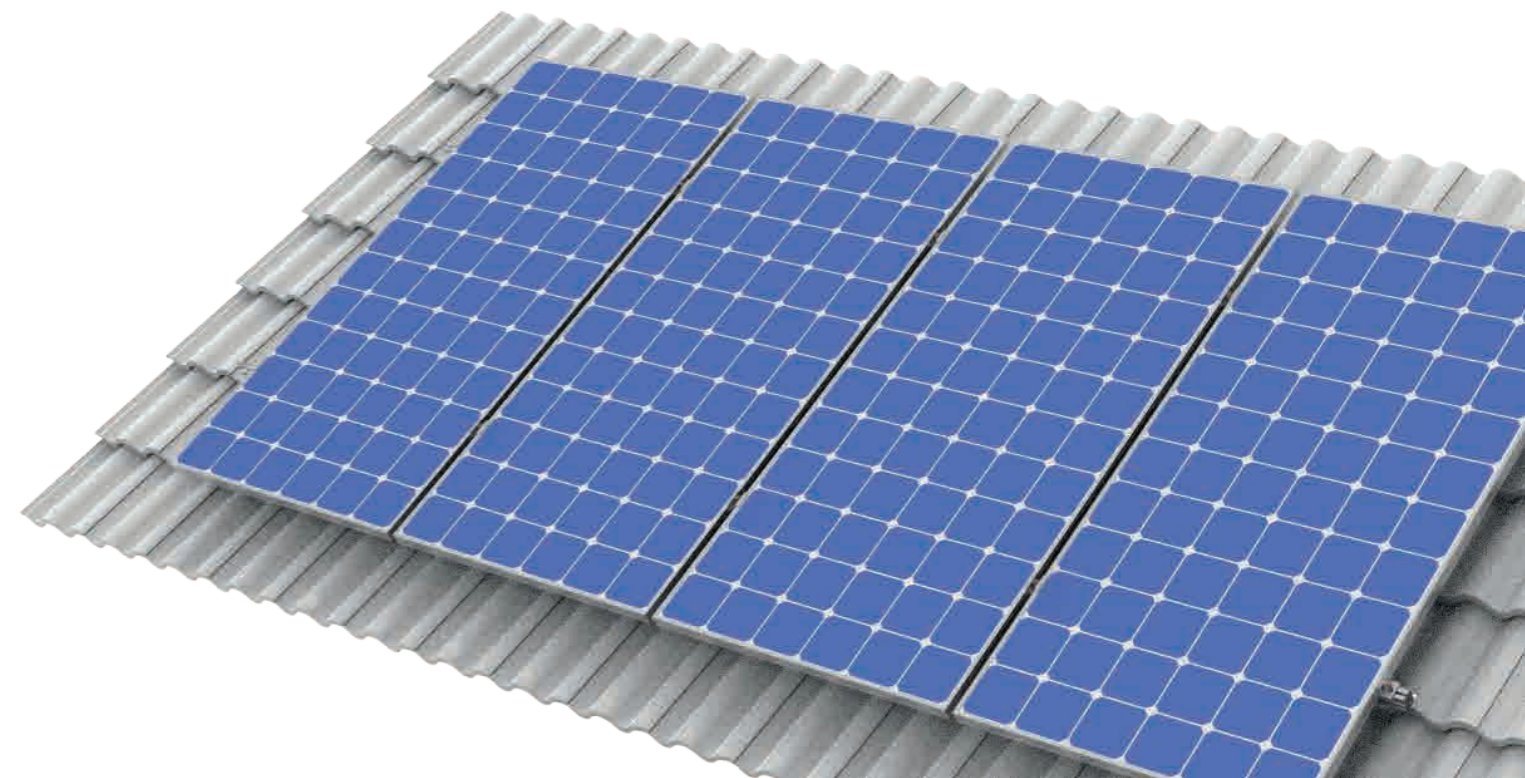
ITEM NO.	MATERIAL	SPEC	FINISH
363-0001	AL 6005-T5	50mm roof radius	Anodized



### Clicknut Hanger Bolt

Hanger bolt for the RRACKS™ Clicknut System. Connect to the rail with the One-Touch Spring Loaded Levelling System. Exists both for wood and steel purlin

ITEM NO.	MATERIAL	SPEC	FINISH
320-0004	AL 6005-T5	Wood Purlin, 200mm	Anodized
320-0003	AL 6005-T5	Steel Purlin, 200mm	Anodized
320-0007	AL 6005-T5	Wood Purlin, 300mm	Anodized
320-0008	AL 6005-T5	Steel Purlin, 300mm	Anodized
320-0010	AL 6005-T5	Wood Purlin, 200mm, Eco	Anodized
320-0009	AL 6005-T5	Steel Purlin, 200mm, Eco	Anodized
320-0011	AL 6005-T5	Wood Purlin, 300mm, Eco	Anodized
320-0012	AL 6005-T5	Steel Purlin, 300mm, Eco	Anodized





### Adjustable Batten Hook Bracket

RRACKS™ Clicknut System adjustable tile roof bracket, can be adjusted to fit different types of rafter sizes as well as being installed in both portrait and landscape mode. Rafter thickness range from 31 to 47mm. Connect to the rail with the One-Touch Spring Loaded Levelling System

ITEM NO.	MATERIAL	SPEC	FINISH
363-0002	AL 6005-T5	Range 31-47mm	Anodized



### Adjustable Batten Hook Bracket XL

RRACKS™ Clicknut System adjustable tile roof bracket, can be adjusted to fit different types of rafter sizes as well as being installed in both portrait and landscape mode. Rafter thickness range from 44 to 60mm. Connect to the rail with the One-Touch Spring Loaded Levelling System

ITEM NO.	MATERIAL	SPEC	FINISH
363-0021	AL 6005-T5	Range 44-60mm	Anodized



### Adjustable Batten Hook Bracket XXL

RRACKS™ Clicknut System adjustable tile roof bracket, can be adjusted to fit different types of rafter sizes as well as being installed in both portrait and landscape mode. Rafter thickness range from 59 to 75mm. Connect to the rail with the One-Touch Spring Loaded Levelling System

ITEM NO.	MATERIAL	SPEC	FINISH
363-0026	AL 6005-T5	Range 59-75mm	Anodized



### Adjustable Aluminium Tile Hook

RRACKS™ Clicknut System fully adjustable aluminium tile hook, to be used on tile roof. Left, right, and up down adjustability to fit all types of tiles. Connect to the RRACKS™ Clicknut rail with the One-Touch Spring Loaded Levelling System.

ITEM NO.	MATERIAL	SPEC	FINISH
363-0023	AL 6005-T5	230x140mm	Anodized



### Clicknut Rosemary Tile Bracket

Rosemary Bracket is designed for use with standard tile rooftops. Connect to the rail with the One-Touch Spring Loaded Levelling System.

ITEM NO.	MATERIAL	SPEC	FINISH
363-0005	SUS304	274x35mm	Anodized
363-0016	SUS304	274x35mm Eco	Anodized



### Clicknut Slate Tile Bracket

Stainless Steel Bracket to be used on slate tiles roofs. Can be connected to the RRACKS™ clicknut rail with the One-Touch Spring Loaded Levelling System

ITEM NO.	MATERIAL	SPEC	FINISH
363-0025	SUS304	249x40mm	Anodized
363-0029	SUS304	249x40mm Eco	Anodized



### Pan Tile Bracket (Landscape)

Pan Tile Bracket is designed for use with standard tiled rooftops and connects modules in landscape. Connect to the RRACKS™ Clicknut rail with the One-Touch Spring Loaded Levelling System.

ITEM NO.	MATERIAL	SPEC	FINISH
363-0011	SUS304	Base 50x180mm	Anodized
363-0018	SUS304	Base 50x180mm Eco	Anodized



### Pan Tile Bracket (Portrait)

Pan Tile Bracket is designed for use with standard tiled rooftops and connects modules in portrait. Connect to the RRACKS™ Clicknut rail with the One-Touch Spring Loaded Levelling System.

ITEM NO.	MATERIAL	SPEC	FINISH
363-0010	SUS34	Base 50x180mm	Anodized
363-0017	SUS34	Base 50x180mm Eco	Anodized



# RED DOT SOLUTIONS

Our range of rooftop component Red Dot Rack by RRACKS™ has been designed to fit a wide variety of roof types and applications around the world.

Manufactured from our 6000 Series aluminium and using our proprietary designs, your mounting components are as fast to install and as long lasting as you have come to expect from the Red Dot Rack brand.

### Rail

Red Dot Rack High Strength Rail is designed for multiple roof types. Used with Red Dot Rack clamps and brackets. For custom length, please call for more support. Check manuals for bracket spacing. Custom length available up to 6m.



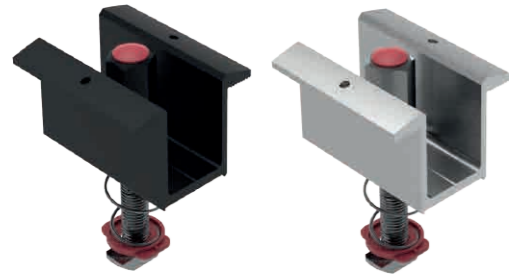
ITEM NO.	MATERIAL	SPEC	FINISH
300-0001	AL 6005-T5	4200mm	Anodized
300-0002	AL 6005-T5	3200mm	Anodized
300-0003	AL 6005-T5	5200mm	Anodized
300-0005	AL 6005-T5	2110mm	Anodized
300-0028	AL 6005-T5	4400mm	Anodized
300-0031	AL 6005-T5	2200mm	Anodized
300-0032	AL 6005-T5	5200mm	Mill finish
300-0033	AL 6005-T5	4400mm	Mill finish
300-0034	AL 6005-T5	4200mm	Mill finish
300-0035	AL 6005-T5	3200mm	Mill finish
300-0036	AL 6005-T5	2200mm	Mill finish
300-0037	AL 6005-T5	2110mm	Mill finish
300-0024	AL 6005-T5	4200mm	Black Anodized
300-0025	AL 6005-T5	3200mm	Black Anodized
300-0026	AL 6005-T5	5200mm	Black Anodized
300-0027	AL 6005-T5	2110mm	Black Anodized
300-0029	AL 6005-T5	4400mm	Black Anodized
300-0038	AL 6005-T5	2200mm	Black Anodized

### End Cap

Red Dot Rack Poly Carbonate Rail End Cap for Red Dot Rack Rails is designed to fit both left and right end of Red Dot Rack Rail profiles. Ultra-durable.



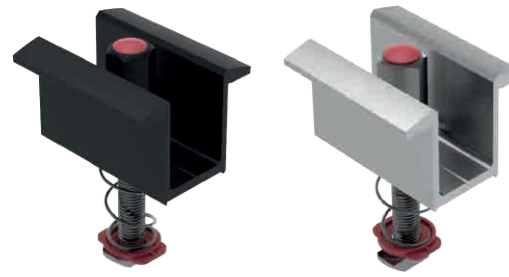
ITEM NO.	MATERIAL	SPEC
112-0001	PVC	30x45x18mm



### Universal Mid Clamp (Earthing)

Red Dot Rack 50mm Universal Mid Clamp with earthing is designed to fit all module types from 30mm to 50mm thickness. Uses custom designed spring to load the clamp while installing the module for ease of installation.

ITEM NO.	MATERIAL	SPEC	FINISH
301-0013	AL 6005-T5	50x38x32mm	Anodized
301-0007	AL 6005-T5	50x38x32mm	Black Anodized



### Universal Mid Clamp (No Earthing)

Red Dot Rack Universal Mid Clamp is specially designed to fit all module types from 30mm to 50mm thickness. Uses custom designed spring to load the clamp while installing the module for ease of installation.

ITEM NO.	MATERIAL	SPEC	FINISH
301-0002	AL 6005-T5	50x38x32mm	Anodized
301-0008	AL 6005-T5	50x38x32mm	Black Anodized



### Universal End Clamp

Red Dot Rack Universal 50mm End Clamp is designed to fit all module types from 30mm to 50mm. Easily change the clamp height within seconds while working on the roof.

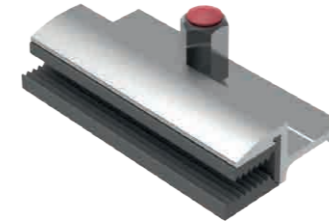
ITEM NO.	MATERIAL	SPEC	FINISH
302-0001	AL 6005-T5	30~50mm	Anodized
302-0011	AL 6005-T5	30~50mm	Black Anodized



### Fixed End Clamp

Red Dot Rack Fixed End Clamp is designed to fit all module types from 30mm to 50mm. Height of the End Clamp is fixed. With Earthing.

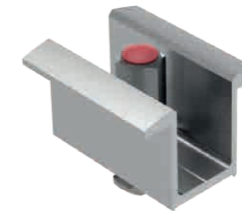
ITEM NO.	MATERIAL	SPEC	FINISH
302-0024	AL 6005-T5	50x38x30mm	Anodized
302-0025	AL 6005-T5	50x38x35mm	Anodized
302-0026	AL 6005-T5	50x38x40mm	Anodized
302-0027	AL 6005-T5	50x38x45mm	Anodized
302-0028	AL 6005-T5	50x38x50mm	Anodized
302-0036	AL 6005-T5	50x38x30mm	Black Anodized
302-0037	AL 6005-T5	50x38x35mm	Black Anodized
302-0038	AL 6005-T5	50x38x40mm	Black Anodized



### End Clamp for Thin Film

Red Dot Rack End Clamp for Thin Film is designed to fit PV thin film module and frameless glass modules.

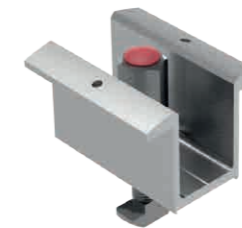
ITEM NO.	MATERIAL	SPEC	FINISH
302-0009	AL 6005-T5	41x15x12mm	Anodized



### Fixed Mid Clamp (No Earthing)

Red Dot Rack 50mm Fixed Mid Clamp without earthing is designed to fit module types from 30mm to 40mm thickness.

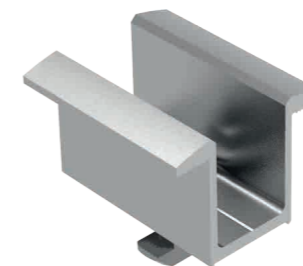
ITEM NO.	MATERIAL	SPEC	FINISH
301-0012	AL 6005-T5	50x38x32mm	Anodized



### Fixed Mid Clamp (Earthing)

Red Dot Rack 50mm Fixed Mid Clamp with earthing is designed to fit module types from 30mm to 40mm thickness.

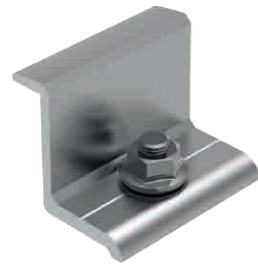
ITEM NO.	MATERIAL	SPEC	FINISH
301-0011	AL 6005-T5	50x38x32mm	Anodized



### Eco Mid Clamp

Red Dot Rack Eco Mid Clamp is designed to fit all module types from 30mm to 40mm. Height of the Mid Clamp is fixed.

ITEM NO.	MATERIAL	SPEC	FINISH
301-0020	AL 6005-T5	30~40mm	Anodized



### Eco End Clamp

Red Dot Rack Eco End Clamp is designed to fit all module types from 30mm to 40mm. Height of the End Clamp is fixed.

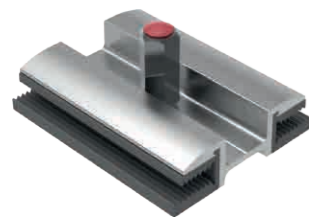
ITEM NO.	MATERIAL	SPEC	FINISH
302-0029	AL 6005-T5	50x38x30mm	Anodized
302-0030	AL 6005-T5	50x38x35mm	Anodized
302-0031	AL 6005-T5	50x38x40mm	Anodized



### Fixed End Clamp (No Earthing)

Red Dot Rack Fixed End Clamp is designed to fit all module types from 30mm to 50mm. Height of the End Clamp is fixed.

ITEM NO.	MATERIAL	SPEC	FINISH
302-0013	AL 6005-T5	50x38x30mm	Anodized
302-0014	AL 6005-T5	50x38x35mm	Anodized
302-0015	AL 6005-T5	50x38x40mm	Anodized
302-0016	AL 6005-T5	50x38x45mm	Anodized
302-0017	AL 6005-T5	50x38x50mm	Anodized



### Mid Clamp for Thin Film

Red Dot Rack Mid Clamp for Thin Film is designed to fit PV thin film module and frameless glass modules.

ITEM NO.	MATERIAL	SPEC	FINISH
301-0005	AL 6005-T5	80x58x18mm	Anodized



### Tek Driver Adaptor

Red Dot Rack 12mm-deep thought Tek Driver Adaptor made from highly durable Chromium-vanadium steel (CrV) is designed for tightening all our clamps and connectors. Total length is 80mm.

ITEM NO.	MATERIAL	SPEC
127-0008	CrV	12x80mm



### Pan Tile (Landscape)

Pan Tile Bracket is designed for use with standard tiled rooftops and connects modules in landscape to Red Dot Rack High Strength Rail. Bracket only; does not come with T-Head Rail Connector.

ITEM NO.	MATERIAL	SPEC	FINISH
105-0002	SUS304	Base 50x180mm	Sand blasting



### Rosemary Bracket

Rosemary Bracket is designed for use with standard tile rooftops and connects to Red Dot Rack High Strength Rail. Bracket only; does not come with T-Head Rail Connector.

ITEM NO.	MATERIAL	SPEC	FINISH
105-0005	SUS304	Base 30x80mm	Sand blasting



### Adjustable Pan Tile Bracket

Rosemary Bracket is designed for use with standard tile rooftops and connects modules in portrait to Red Dot Rack High Strength Rail. Can adjust position of L-Bracket. Bracket only; does not come with T-Head Rail Connector.

ITEM NO.	MATERIAL	SPEC	FINISH
105-0004	SUS304	Base 30x80mm	Sand blasting



### Pan Tile (Portrait)

Pan Tile Bracket is designed for use with standard tiled rooftops and connects modules in portrait to Red Dot Rack High Strength Rail. Bracket only; does not come with T-Head Rail Connector.

ITEM NO.	MATERIAL	SPEC	FINISH
105-0001	SUS304	Base 50x180mm	Sand blasting



### L-Bracket 6.3mm w/ Rubber

Red Dot Rack L-Bracket with 6.3mm connecting hole and EPDM rubber seal is designed for use with various metal roof types. Does not come with roofing screw. Please select roofing screw to suit your application.

ITEM NO.	MATERIAL	SPEC	FINISH
304-0001	AL 6005-T5	38x40x85mm	Anodized
304-0006	AL 6005-T5	38x40x85mm	Black Anodized



### L-Bracket 10mm Hole

Red Dot Rack L-Bracket with 10mm connecting hole is designed for use with various Klip-lok brackets, connecting brackets, and rails.

ITEM NO.	MATERIAL	SPEC	FINISH
304-0002	AL 6005-T5	38x40x85mm	Anodized
304-0028	AL 6005-T5	38x40x85mm	Black Anodized



### Hanger Bolt for Wood Purlin

20mm M10 Hanger Bolt with attached EPDM round rubber seal and Red Dot Rack bracket is used for drilling into wooden purlins and frames. Is held in place with pieces of M10 nuts.

ITEM NO.	MATERIAL	SPEC
320-0001	SUS304	200mm high
320-0014	SUS304	300mm high



### Hanger Bolt for Steel Purlin

20mm M10 Hanger Bolt with attached EPDM round rubber seal and Red Dot Rack bracket is used for fixing steel purlins and frames. Is held in place with 3 pieces of M10 nuts.

ITEM NO.	MATERIAL	SPEC
320-0002	SUS304	200mm high
320-0015	SUS304	300mm high



### T-Head Rail Connector

Red Dot Rack custom 17mm T-Head Rail Connector with built-in earthing teeth is designed to connect all Red Dot Rack brackets to Red Dot Rack rail, including Tile, L-Bracket, Klip-Lok, Micro Inverter Mounting Brackets and other Red Dot Rack brackets.

ITEM NO.	MATERIAL	SPEC
319-0007	SUS-304	20mm thread



### High L-Bracket for M8 Screw

Red Dot Rack High L-Bracket for M8 Screw is designed for use with various Klip-Lok brackets. Connects brackets and rails.

ITEM NO.	MATERIAL	SPEC	FINISH
304-0004	AL 6005-T5	45x40x225mm	Anodized
304-0030	AL 6005-T5	45x40x225mm	Black Anodized



### High L-Bracket for Screw ST6.3mm with Rubber

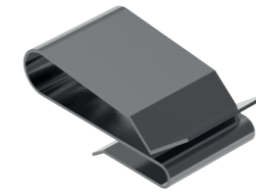
Red Dot Rack High L-Bracket for screw ST6.3mm with EPDM rubber seal is designed for use with various metal roof types. Does not come with roofing screw. Please select roofing screw to suit your application.

ITEM NO.	MATERIAL	SPEC	FINISH
304-0003	AL 6005-T5	45x40x227mm	Anodized
304-0029	AL 6005-T5	45x40x227mm	Black Anodized

# UNIVERSAL SOLUTIONS

Discover RRACKS™ exclusive Universal Solar Panel Roof Mount Solutions. Our Seamlessly engineered product line which integrates with both our Red Dot Rack and Clicknut Roof Mount System. This versatile range offers a wide selection of tilt solutions, brackets, and accessories meticulously designed to match any roof type, ensuring effortless installation. Supported by our dedicated engineering team, these solutions optimize the performance of every project, elevating your solar experience to new heights.

Discover the perfect blend of compatibility and innovation with RRACKS™ Universal Roof Mount Solutions, setting a new standard in solar panel installations.



### Cable Clip

Red Dot Rack Solar Panel Cable Clip is made from high quality stainless steel 304. Used to position wires on solar arrays. Can fit 4 x 4mm cable or 2x 6mm cable.

ITEM NO.	MATERIAL	SPEC	FINISH
111-0003	SUS-304	16.5x33mm	Painting



### Roofing Screw for Wooden Purlin

Roofing Screw is designed for use with Tile brackets for drilling into wooden frames. Can be used for L-Bracket for entering wood.

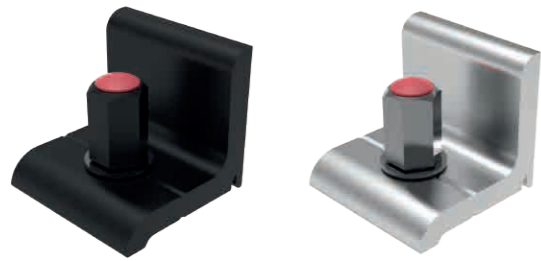
ITEM NO.	MATERIAL	SPEC	FINISH
100-0006	C-1022	St 6.3x75mm	Dacromat
100-0098	C-1022	St 6.3x75mm	Climaseal 5



### Roofing Screw for Steel Purlin

Roofing Screw (self drilling point, hex head, metal-bonded washer, C-1022 steel, dacromat) is designed for use with metal roofs and steel purlins.

ITEM NO.	MATERIAL	SPEC	FINISH
100-0003	C-1022	St 6.3x65mm	Dacromat
100-0082	C-1022	St 6.3x75mm	Dacromat
100-0097	C-1022	St 6.3x65mm	Climaseal 5



### Cross Rail Clamp Bracket

RRACKS™ Cross Rail Clamp Bracket is used to clamp two rails together when cross bracing. Also used to connect rail to Foldable Tripod Tilt system.

ITEM NO.	MATERIAL	SPEC	FINISH
318-0001	AL 6005-T5	37x40x36mm	Anodized
318-0002	AL 6005-T5	37x40x36mm	Black Anodized

### Integrated Earthing Lug



Red Dot Rack Integrated Earthing Lug is designed to attach earthing wire to the rail via Red Dot Rack Earthing Washer. Use for cable size <10mm<sup>2</sup>.

ITEM NO.	MATERIAL	SPEC	FINISH
305-0003	AL 6005-T5	59x20x27mm	Anodized

### Rail Cable Clip



RRACKS™ Cable Clip is made from aluminium. Accommodates up to 4 cables. Designed exclusively to clip onto the RRACKS™ Rails.

ITEM NO.	MATERIAL	SPEC	FINISH
353-0001	AL 6005-T5	41x15x12mm	Anodized

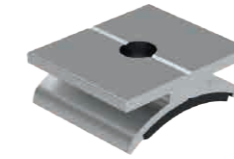
### Universal Earthing Washer



RRACKS™ Universal Earthing Washer has been designed to ensure safe earthing of your installation if you are not using integrated earthing clamps. It can also be used to earth your tilt tripod.

ITEM NO.	MATERIAL	SPEC
106-0008	Stainless Steel	52x29mm

### Corrugated Bracket



RRACKS™ Corrugated Bracket Assembly with EPDM rubber is used under the Foldable Tripod Leg when connecting to corrugated roof sheet. Can also be used with RRACKS™ L-Bracket.

ITEM NO.	MATERIAL	SPEC	FINISH
321-0001	AL 6005-T5	40x40x14mm	Anodized

### Rubber Gasket



Klip-Lok EPDM Rubber Gasket is designed to fit inside Klip-Lok bracket to protect the metal sheet. This item is optional.

ITEM NO.	MATERIAL	SPEC
102-0004	EPDM	Klip-Lok 700
102-0005	EPDM	Klip-Lok 406

### DC Isolator Cover



Red Dot Rack high quality anodized protective DC isolator cover for all solar panel installation solutions.

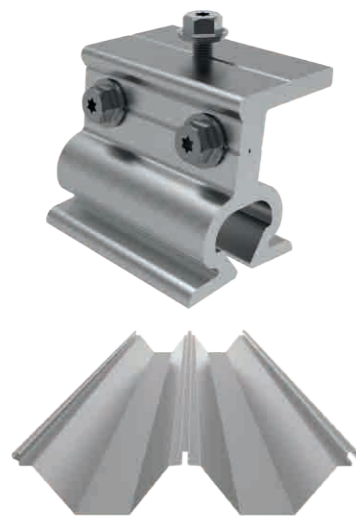
ITEM NO.	MATERIAL	SPEC	FINISH
325-0002	AL 6005-T5	152x133x265mm	Anodized
325-0004	AL 6005-T5	152x133x265mm	Black Anodized

### Rail Joiner



RRACKS™ High Strength Rail Joiner is designed to completely cover the back of the rail, allowing a super strong bond between joining rails. Allows zero twist or flex at the joining point. Great for uneven roof tops.

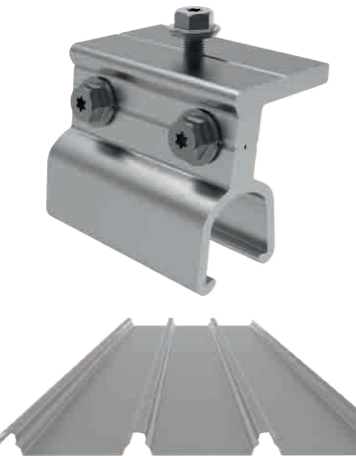
ITEM NO.	MATERIAL	SPEC	FINISH
303-0001	AL 6005-T5	Length 100mm	Anodized
303-0008	AL 6005-T5	Length 150mm	Anodized
303-0010	AL 6005-T5	Length 100mm	Black Anodized
303-0011	AL 6005-T5	Length 150mm	Black Anodized



### Klip-Lok 600 Bracket

RRACKS™ Klip-Lok 600 Bracket is designed for commercial Klip-Lok 600 sheet rooftops. Comes with M8 screw for fixing to RRACKS™ M8 hole L-Bracket.

ITEM NO.	MATERIAL	SPEC	FINISH
314-0003A	AL 6005-T5	80x70x65mm	Anodized
314-0003T	AL 6005-T5	80x58x50mm	Anodized
314-0003TL	AL 6005-T5	50x58x50mm	Anodized



### Klip-Lok 700 Bracket

RRACKS™ Klip-Lok 700 Bracket is designed for commercial Klip-Lok 700 sheet rooftops. Comes with M8 screw for fixing to RRACKS™ M8 hole L-Bracket.

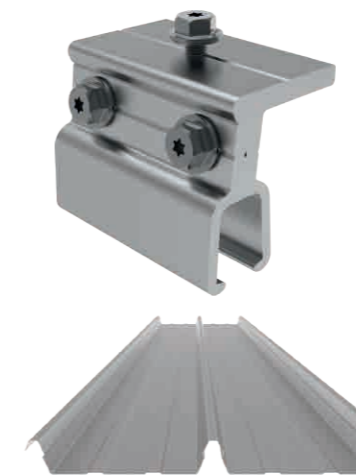
ITEM NO.	MATERIAL	SPEC	FINISH
314-0001A	AL 6005-T5	80x62x65mm	Anodized
314-0001T	AL 6005-T5	80x58x50mm	Anodized
314-0001TL	AL 6005-T5	50x58x50mm	Anodized
314-0011T	AL 6005-T5	80x58x50mm	Anodized
314-0011TL	AL 6005-T5	50x58x50mm	Anodized



### Klip-Lok V750 Bracket

RRACKS™ Klip-Lok V750 Bracket is designed for commercial Klip-Lok V750 sheet rooftops. Comes with M8 screw for fixing to RRACKS™ M8 hole L-Bracket.

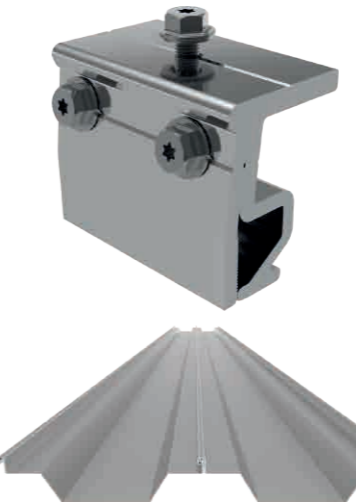
ITEM NO.	MATERIAL	SPEC	FINISH
314-0005A	AL 6005-T5	80x70x50mm	Anodized
314-0005T	AL 6005-T5	80x58x45mm	Anodized
314-0005TL	AL 6005-T5	50x58x45mm	Anodized



### Klip-Lok 406 Bracket

RRACKS™ Klip-Lok 406 Bracket is designed for commercial Klip-Lok 406 sheet rooftops. Comes with M8 screw for fixing to RRACKS™ M8 hole L-Bracket.

ITEM NO.	MATERIAL	SPEC	FINISH
314-0002A	AL 6005-T5	80x75x65mm	Anodized
314-0002T	AL 6005-T5	80x58x50mm	Anodized
314-0002TL	AL 6005-T5	50x58x50mm	Anodized



### One-Way Standing Seam Bracket

RRACKS™ One-Way Standing Seam bracket is designed for commercial snaplock sheet rooftops. Comes with M8 screw for fixing to RRACKS™ M8 hole L-Bracket.

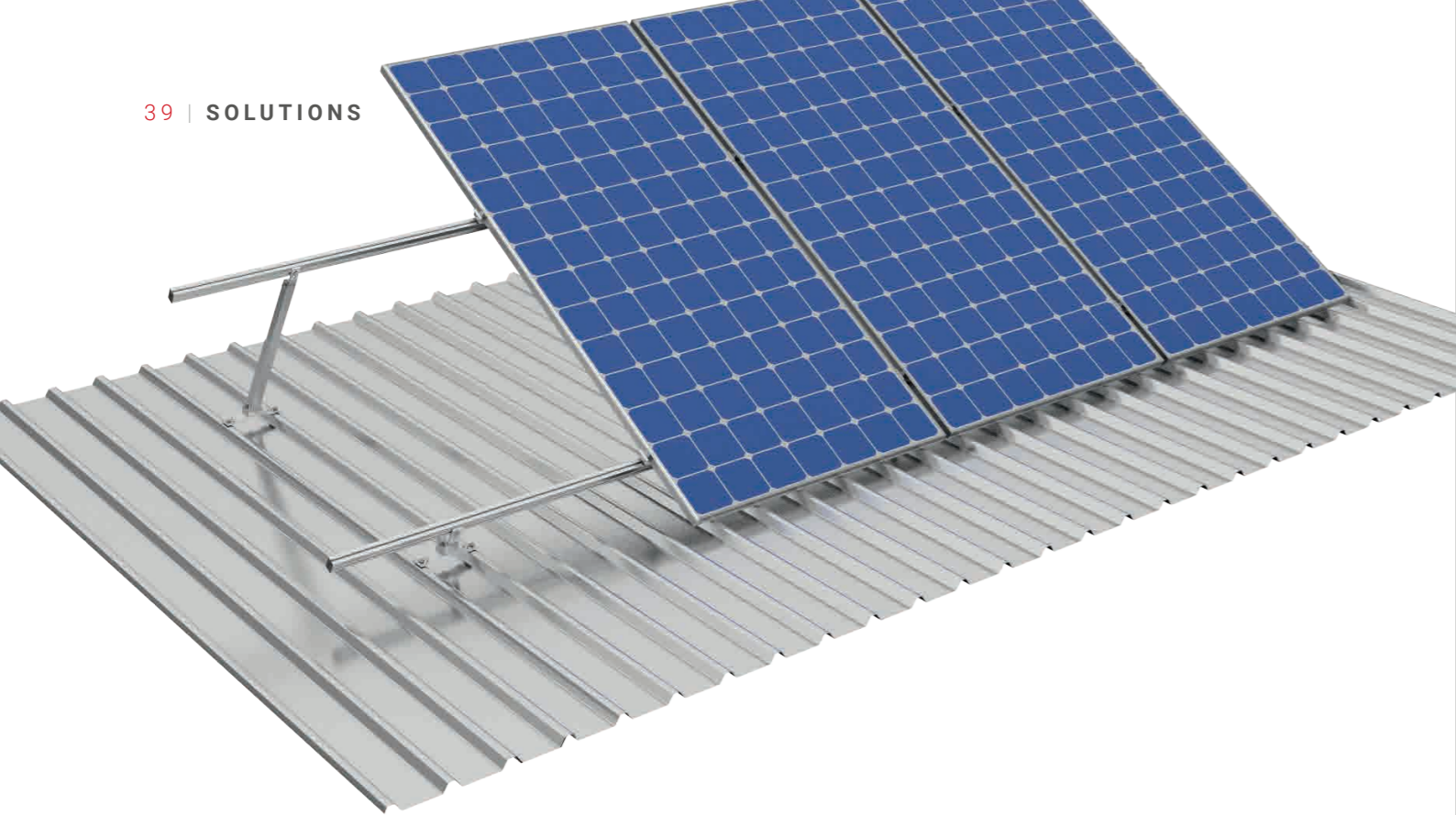
ITEM NO.	MATERIAL	SPEC	FINISH
314-0008A	AL 6005-T5	80x63x47mm	Anodized
314-0008T	AL 6005-T5	80x58x40mm	Anodized
314-0008TL	AL 6005-T5	50x58x40mm	Anodized



### Universal Standing Seam Bracket

RRACKS™ Universal Standing Seam bracket is designed for commercial snaplock sheet rooftops. Comes with M8 screw for fixing to RRACKS™ M8 hole L-Bracket.

ITEM NO.	MATERIAL	SPEC	FINISH
314-0007A	AL 6005-T5	80x70x51mm	Anodized
314-0007T	AL 6005-T5	80x58x51mm	Anodized
314-0007TL	AL 6005-T5	50x58x51mm	Anodized



### Standard Tilt Front Leg

The RRACKS™ Standard Tilt Front leg is a more cost-conscious way of installing tilted panels on a roof. Can be fixed directly onto the roof or on a Red Dot Rack Kliplok Bracket.

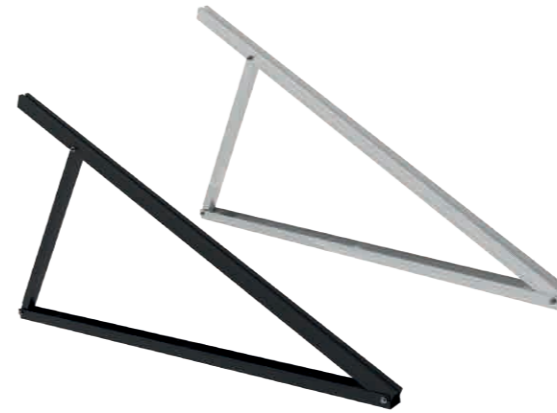
ITEM NO.	MATERIAL	SPEC	FINISH
358-0001	AL 6005-T5	Tin Roof	Anodized
358-0011	AL 6005-T5	Kliplok Roof	Anodized
358-0022	AL 6005-T5	Tin Roof	Black Anodized
358-0028	AL 6005-T5	Kliplok Roof	Black Anodized



### Standard Tilt Back Leg

The RRACKS™ Standard Tilt Back leg is a more cost-conscious way of installing tilted panels on a roof. Can be fixed directly onto the roof or on a Red Dot Rack Kliplok Bracket. The angle can be adjusted on the leg to reach the desired angle.

ITEM NO.	MATERIAL	SPEC	FINISH
358-0002	AL 6005-T5	1400mm; 10~15°	Anodized
358-0004	AL 6005-T5	1400mm; 15~30°	Anodized
358-0005	AL 6005-T5	1400mm; 30~60°	Anodized
358-0023	AL 6005-T5	1400mm; 10~15°	Black Anodized
358-0024	AL 6005-T5	1400mm; 15~30°	Black Anodized
358-0025	AL 6005-T5	1400mm; 30~60°	Black Anodized



### Foldable Tripod Tilt Kit

RRACKS™ Foldable Tripod Leg is adjustable from 10 to 60 degrees. Each leg completes one tripod. Must add rubber seal, corrugated bracket or Klip-Lok bracket depending on roof type. Designed for 60 and 72 cell modules (1.5m and 1.8m tripod length).

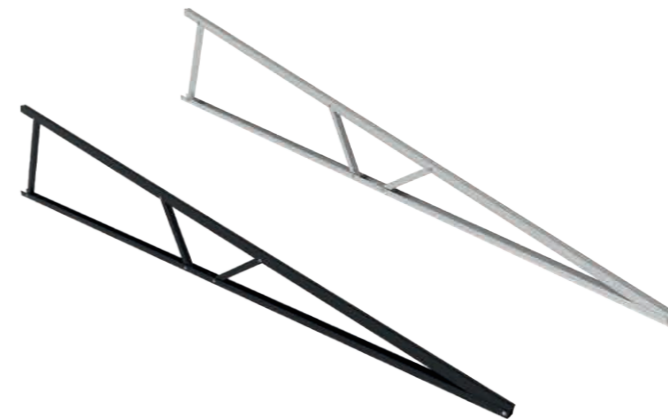
ITEM NO.	MATERIAL	SPEC	FINISH
317-0001	AL 6005-T5	1500mm; 10~30°	Anodized
317-0002	AL 6005-T5	1500mm; 30~60°	Anodized
317-0006	AL 6005-T5	1500mm; 10~30°	Black anodized
317-0007	AL 6005-T5	1500mm; 30~60°	Black anodized



### Foldable XL Tripod Tilt Kit

RRACKS™ Foldable Tripod Leg is adjustable from 10 to 60 degrees. Each leg completes one tripod. Must add rubber seal, corrugated bracket or Klip-Lok bracket depending on roof type. Designed for 72 cell modules (1.5m and 1.8m tripod length).

ITEM NO.	MATERIAL	SPEC	FINISH
317-0003	AL 6005-T5	1800mm; 10~30°	Anodized
317-0004	AL 6005-T5	1800mm; 30~60°	Anodized
317-0008	AL 6005-T5	1800mm; 10~30°	Black anodized
317-0009	AL 6005-T5	1800mm; 30~60°	Black anodized



### Foldable XXL Tripod Tilt Kit

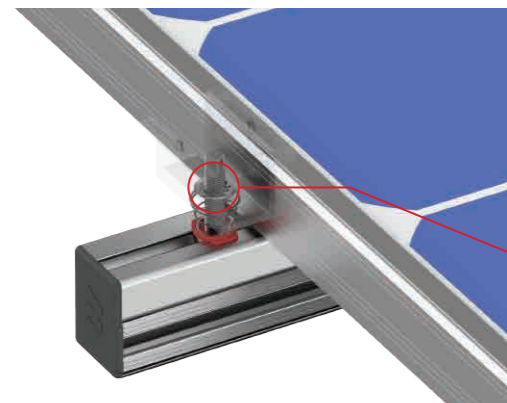
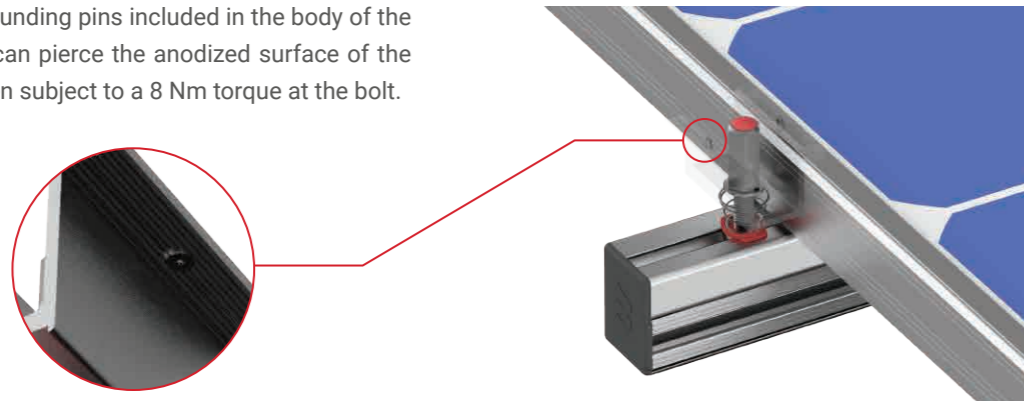
RRACKS™ Foldable XXL tripod, allows you to install 2 vertical panels on the same Tripod and same in inter-row spacing and installation time.

ITEM NO.	MATERIAL	SPEC	FINISH
317-0011	AL 6005-T5	3950mm; 10°	Anodized
317-0013	AL 6005-T5	3950mm; 10°	Black Anodized

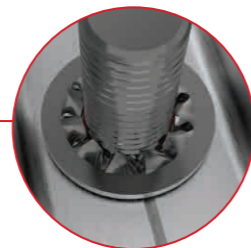
# RED DOT RACK 3 STAGE GROUNDING SYSTEM

The Red Dot Rack clamps with included earthing involves a 3 step grounding process. They are assembled using the same process as our classic clamps. They can fit all types of solar PV panels ranging from 30mm to 50mm.

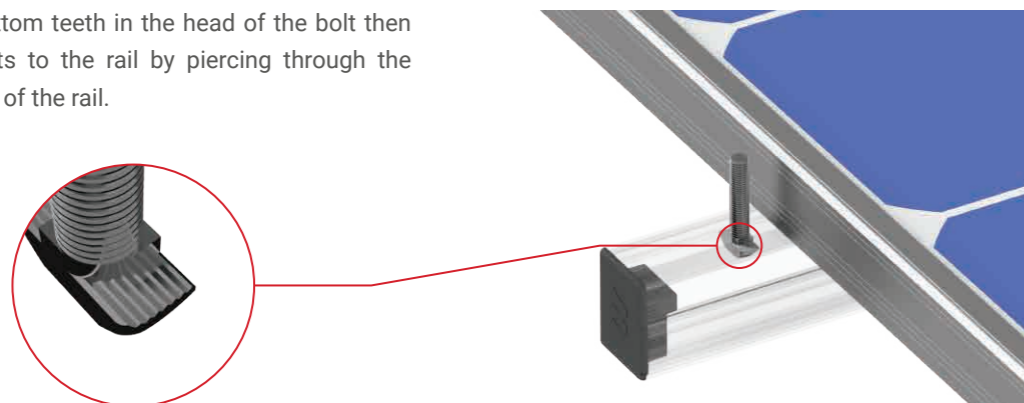
The grounding pins included in the body of the clamp can pierce the anodized surface of the rail when subject to a 8 Nm torque at the bolt.



The internal tooth lock washer is then able to connect the clamp body to the t-head bolt by piercing through the anodization.

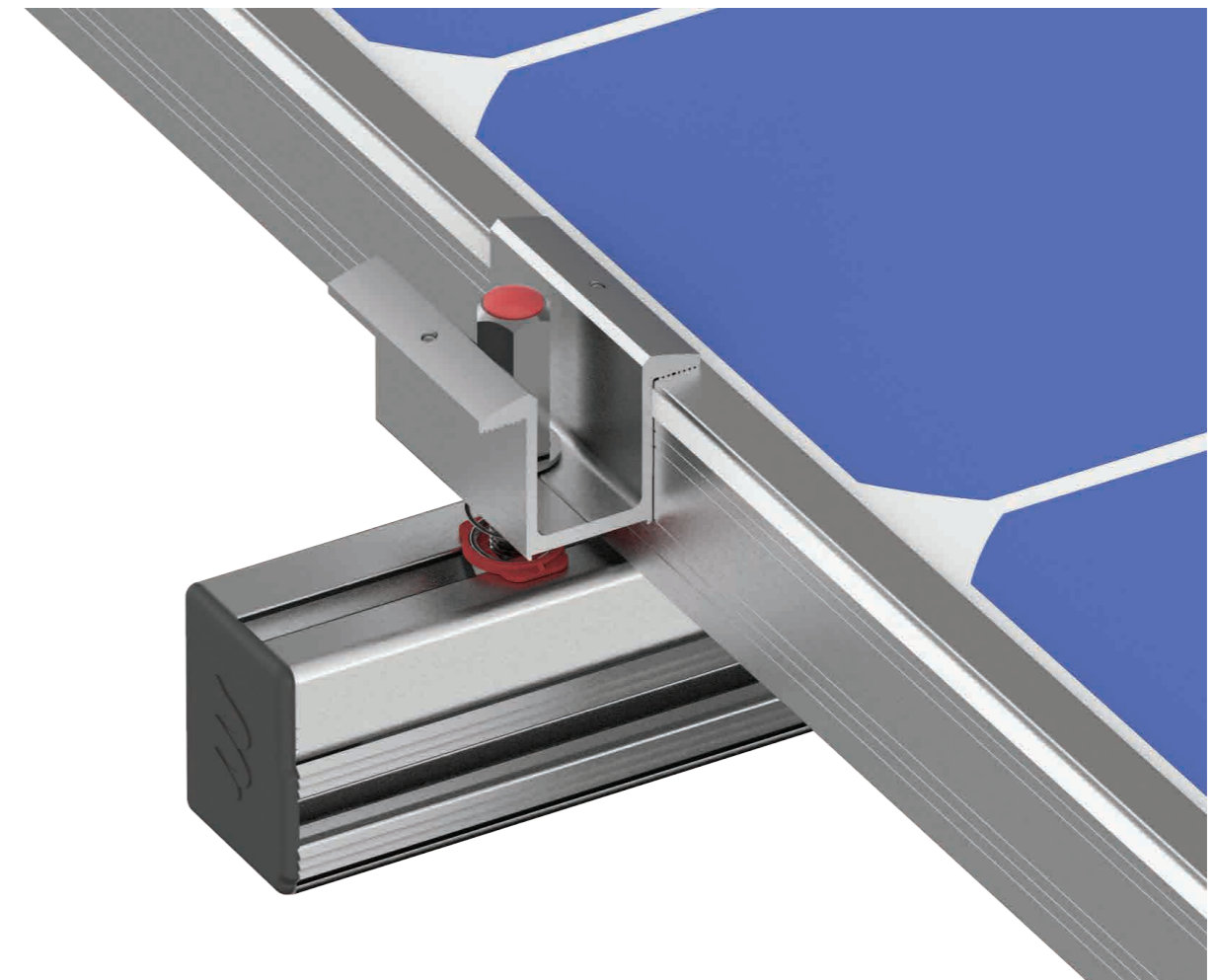


The bottom teeth in the head of the bolt then connects to the rail by piercing through the coating of the rail.



This strong earthing bond allows you to ground your structure with minimal effort while maintaining a safe operation. Our method ensure a strong, effort-free, 1 ohms earthing bond between the solar panels and your solar structure.

This earthing process is also available on our Red Dot Rack Black Series.



**“Reliable and effort-free  
grounding to ensure the safe  
earthing of your structure.”**

# RRACKS®

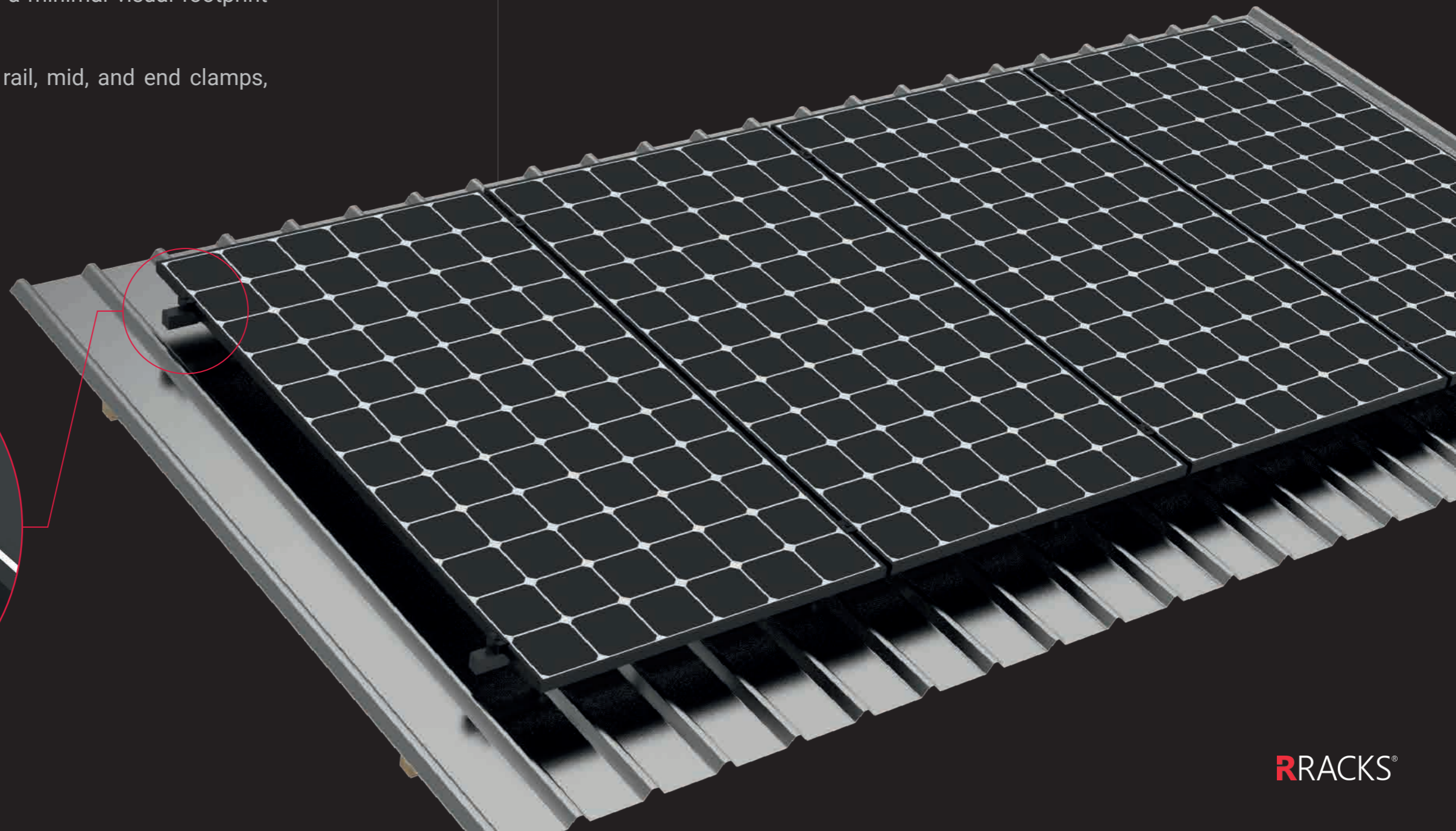
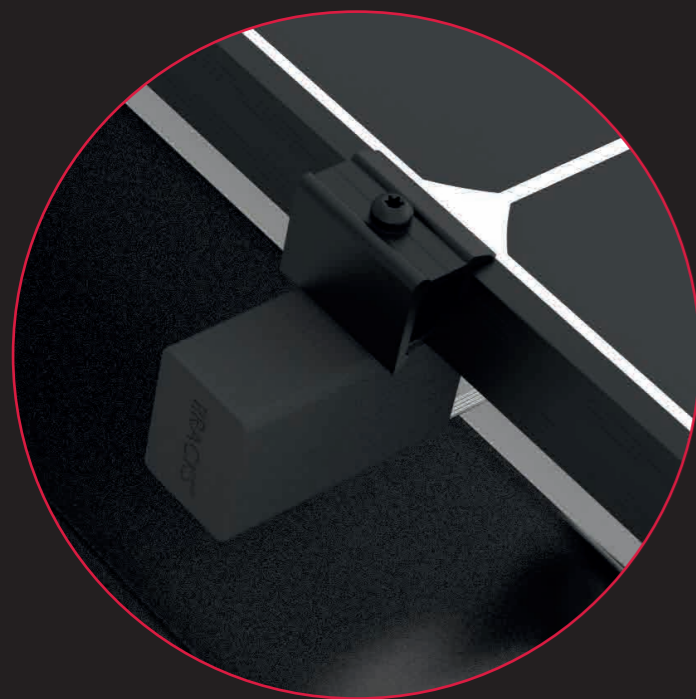
## BLACK SERIES

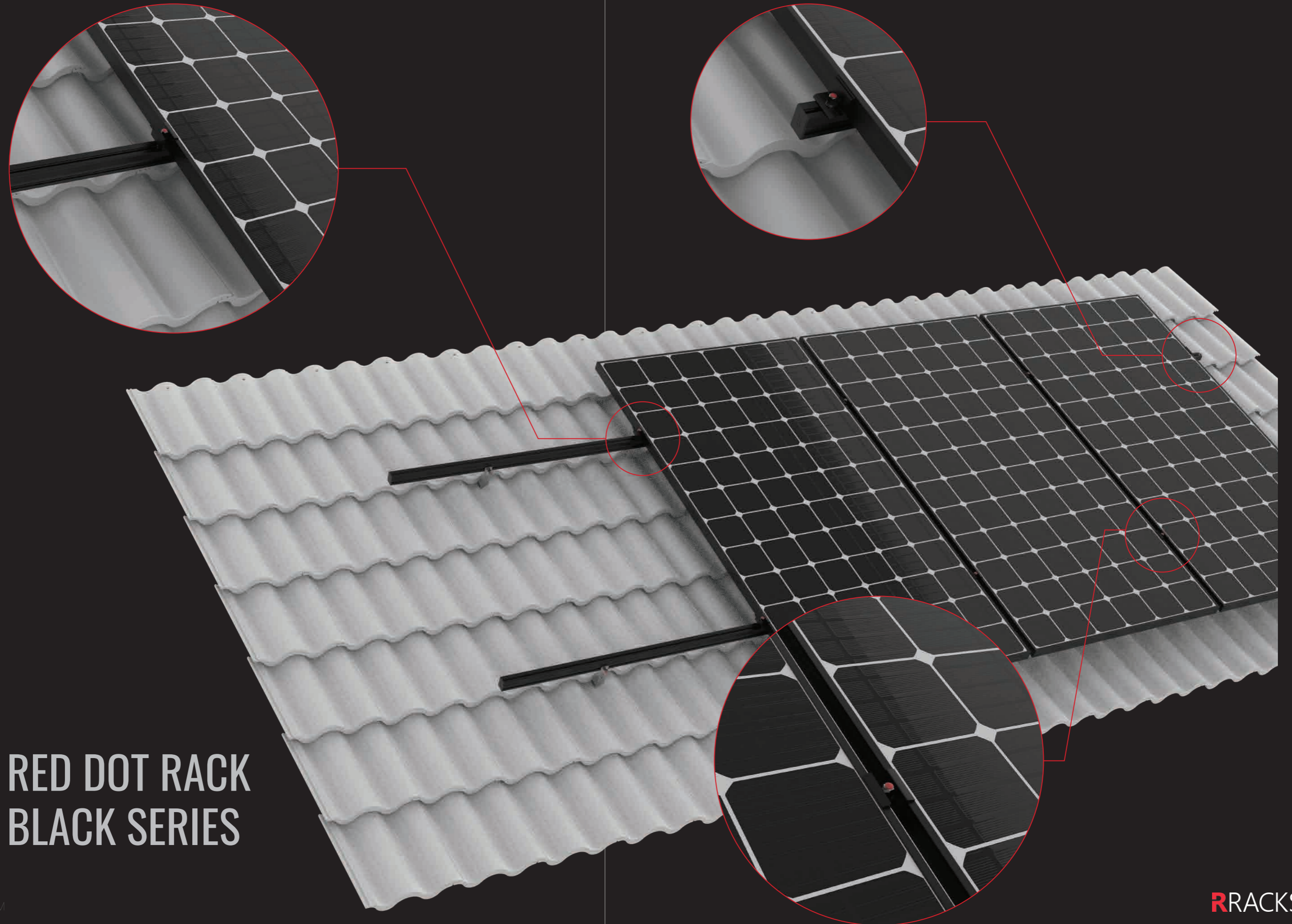
RRACKS™ Black Series has been conceived with design in mind. The black anodized finish applied to the railing and clamps will fit perfectly with black panel in design-conscious residential installations. The anodization will withstand harsh weather conditions and will ensure a minimal visual footprint for years.

RRACKS™ Black Series comprises rail, mid, and end clamps, brackets and inverter covers.

“Black anodized solutions for your modern all-black design finish.”

## RRACKS™ CLICKNUT BLACK SERIES





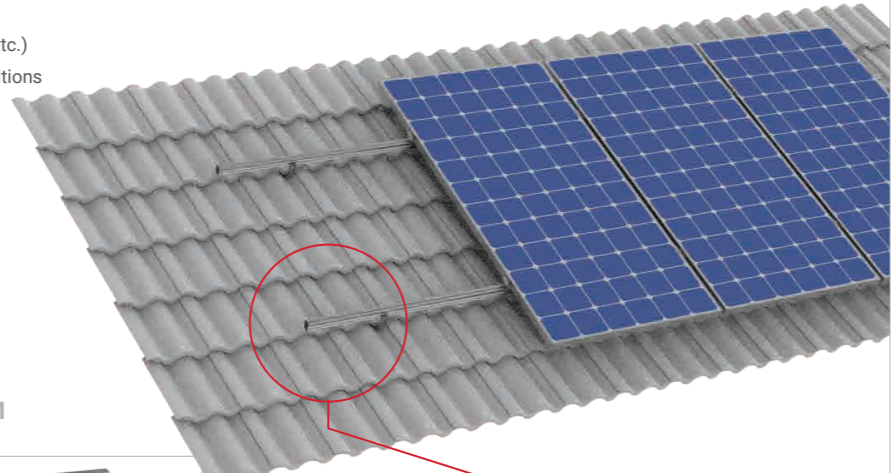
# RED DOT RACK BLACK SERIES

# ROOF KITS

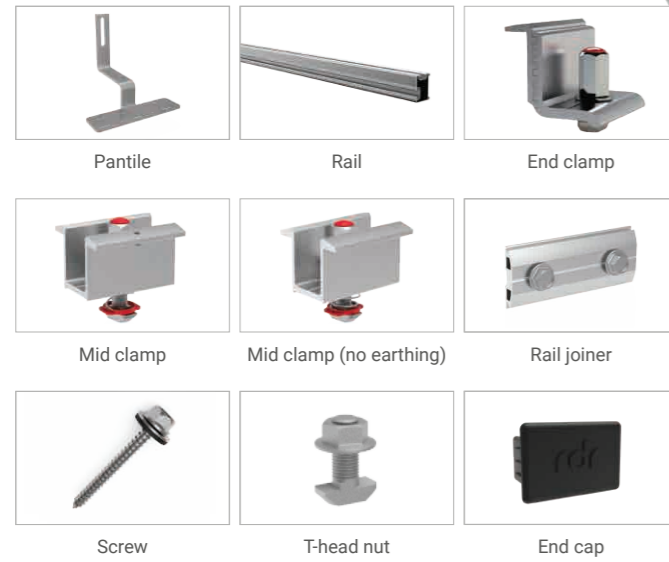
## Tile Roof Kit

**MATERIAL** Mixture material (AL6005-T5, SS304, PVC, etc.)  
**WARRANTY** 12 years as subject to the terms and conditions  
**WIND SPEED** Refer to installation manual

Available in Red Dot Rack or RRACKS™ Clicknut System



### ROOF KIT COMPONENTS & BOM



#### 4x Mod Tile Roof

ITEM NO.	DESCRIPTION	QTY
105-0001	Pan tile roof bracket	8
300-0001	RDR rail piece, 4200mm	2
302-0001	End clamp	4
301-0002	Mid clamp, no earthing	6
303-0001	Rail joiner	2
319-0007	T-Head connector	8
100-0011	Roofing screw	16
112-0001	End cap	4
301-0013	Earthing mid clamp	3

#### 3x Mod Tile Roof

ITEM NO.	DESCRIPTION	QTY
105-0001	Pan tile roof bracket	6
300-0002	RDR rail piece, 3200mm	2
302-0001	End clamp	4
301-0002	Mid clamp, no earthing	4
303-0001	Rail joiner	2
319-0007	T-Head connector	6
100-0011	Roofing screw	12
112-0001	End cap	4
301-0013	Earthing mid clamp	2

#### 4x Mod Tile Roof w/ Rail 2.1m

ITEM NO.	DESCRIPTION	QTY
105-0001	Pan tile roof bracket	8
300-0005	RDR rail piece, 2110mm	4
302-0001	End clamp	4
301-0002	Mid clamp, no earthing	6
303-0001	Rail joiner	4
319-0007	T-Head connector	8
100-0011	Roofing screw	16
112-0001	End cap	4
301-0013	Earthing mid clamp	4

#### 4x Mod Tile Roof Earthing

ITEM NO.	DESCRIPTION	QTY
105-0001	Pan tile roof bracket	8
300-0001	RDR rail piece, 4200mm	2
302-0001	End clamp	4
301-0002	Mid clamp, no earthing	3
303-0001	Rail joiner	2
319-0007	T-Head connector	8
100-0011	Roofing screw	16
112-0001	End cap	4
301-0013	Earthing mid clamp	3

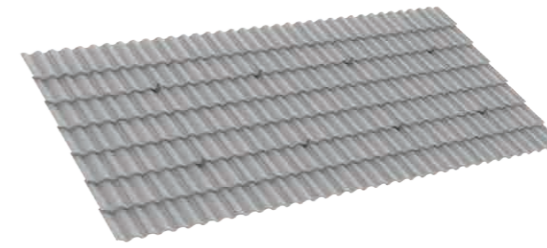
#### 3x Mod Tile Roof Earthing

ITEM NO.	DESCRIPTION	QTY
105-0001	Pan tile roof bracket	6
300-0002	RDR rail piece, 3200mm	2
302-0001	End clamp	4
301-0002	Mid clamp, no earthing	2
303-0001	Rail joiner	2
319-0007	T-Head connector	6
100-0011	Roofing screw	12
112-0001	End cap	4
301-0013	Earthing mid clamp	2

#### 3x Mod Tile Roof Earthing w/ Rail 2.1m

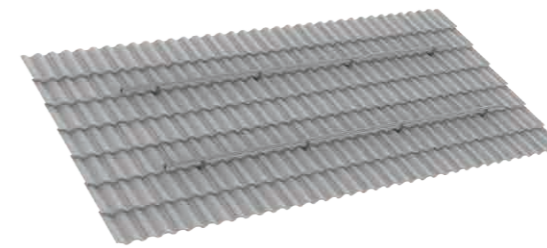
ITEM NO.	DESCRIPTION	QTY
105-0001	Pan tile roof bracket	8
300-0005	RDR rail piece, 2110mm	2
302-0001	End clamp	4
301-0002	Mid clamp, no earthing	3
303-0008	Rail joiner	2
319-0007	T-Head connector	8
100-0006	Roofing screw	16
353-0001	Alu rail cable clip	8
301-0013	Earthing mid clamp	4
305-0003	Earthing lug	2

## Tile Roof Kit Installation



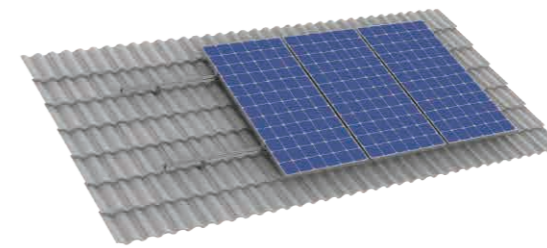
### STEP 1

Install the pan tiles on the roof.



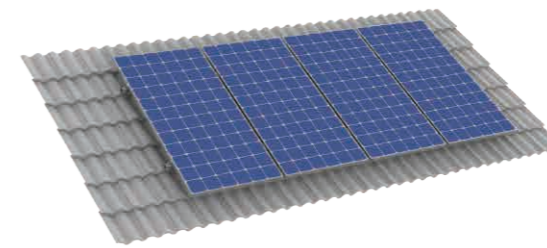
### STEP 2

Fix the rails to the pan tiles using the T-Head Connector.



### STEP 3

Place panels onto the rails and fix with mid clamps and end clamps.



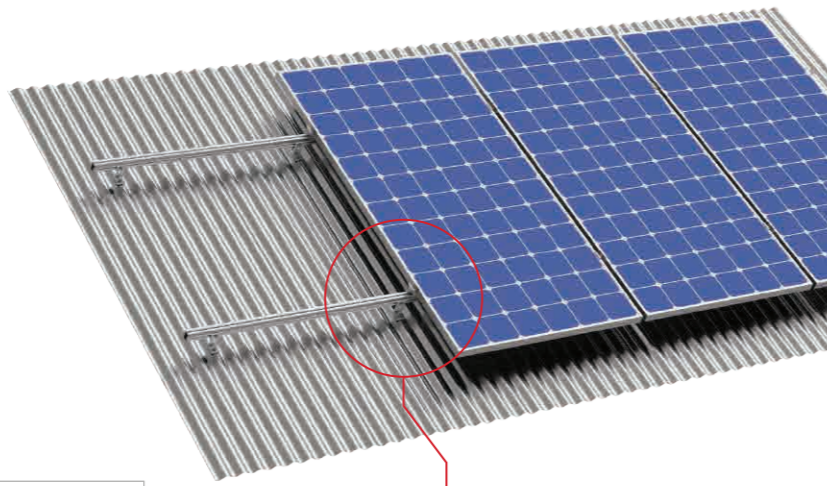
### STEP 4

Finish the installation.

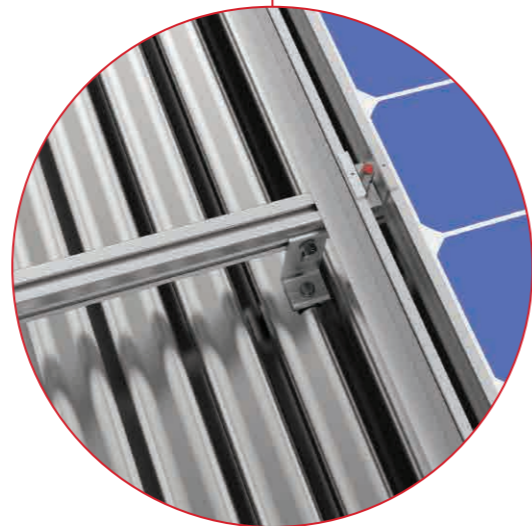
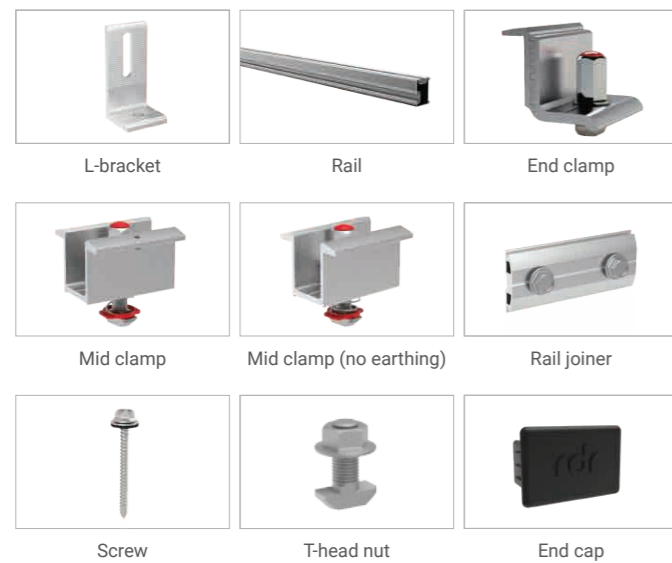
## Tin Roof Kit

**MATERIAL** Mixture material (AL6005-T5, SUS304, PVC, etc.)  
**WARRANTY** 12 years as subject to the terms and conditions  
**WIND SPEED** Refer to installation manual

Available in Red Dot Rack or RRACKS™ Clicknut System



### ROOF KIT COMPONENTS & BOM



#### 4x Mod Tin Roof

ITEM NO.	DESCRIPTION	QTY
304-0001	L-bracket	10
300-0001	RDR rail piece, 4200mm	2
302-0001	End clamp	4
301-0002	Mid clamp, no earthing	6
303-0001	Rail joiner	2
319-0007	T-Head connector	10
100-0011	Roofing screw	10
112-0001	End cap	4

#### 3x Mod Tin Roof

ITEM NO.	DESCRIPTION	QTY
304-0001	L-bracket	8
300-0002	RDR rail piece, 3200mm	2
302-0001	End clamp	4
301-0002	Mid clamp, no earthing	4
303-0001	Rail joiner	2
319-0007	T-Head connector	8
100-0011	Roofing screw	8
112-0001	End cap	4

#### 4x Mod Tin Roof w/ Rail 2.1m

ITEM NO.	DESCRIPTION	QTY
304-0001	L-bracket	10
300-0005	RDR rail piece, 2110mm	4
302-0001	End clamp	4
301-0002	Mid clamp, no earthing	6
303-0001	Rail joiner	4
319-0007	T-Head connector	10
100-0011	Roofing screw	8
112-0001	End cap	4

#### 4x Mod Tin Roof Earthing

ITEM NO.	DESCRIPTION	QTY
304-0001	L-bracket	10
300-0001	RDR rail piece, 4200mm	2
302-0001	End clamp	4
301-0002	Mid clamp, no earthing	3
303-0001	Rail joiner	2
319-0007	T-Head connector	10
100-0011	Roofing screw	10
112-0001	End cap	4
301-0013	Earthing mid clamp, built-in	3

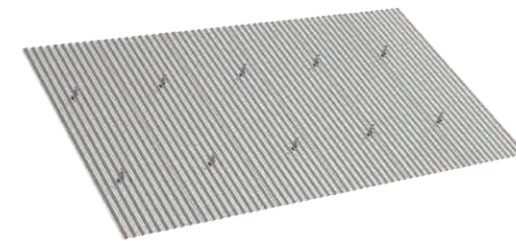
#### 3x Mod Tin Roof Earthing

ITEM NO.	DESCRIPTION	QTY
304-0001	L-bracket	8
300-0002	RDR rail piece, 3200mm	2
302-0001	End clamp	4
301-0002	Mid clamp, no earthing	2
303-0001	Rail joiner	2
319-0007	T-Head connector	8
100-0011	Roofing screw	8
112-0001	End cap	4
301-0013	Earthing mid clamp, built-in	2

#### 3x Mod Tin Roof Earthing w/ Rail 2.1m

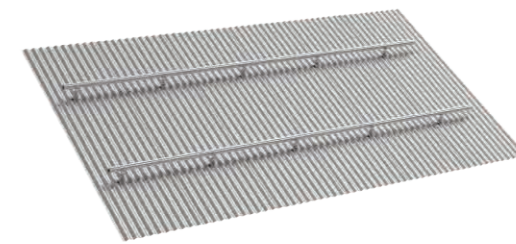
ITEM NO.	DESCRIPTION	QTY
304-0001	L-bracket	8
300-0005	RDR rail piece, 2110mm	4
302-0001	End clamp	4
301-0002	Mid clamp, no earthing	3
303-0008	Rail joiner	4
319-0007	T-Head connector	8
100-0006	Roofing screw	8
353-0001	Alu rail cable clip	8
301-0013	Earthing mid clamp, built-in	3
305-0003	Earthing lug	2

## Tin Roof Kit Installation



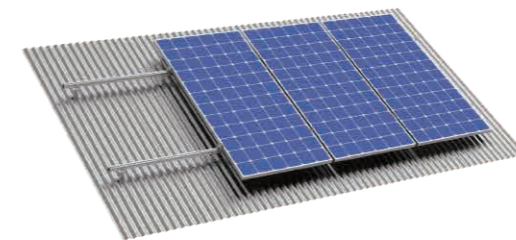
### STEP 1

Install the L-bracket on the roof.



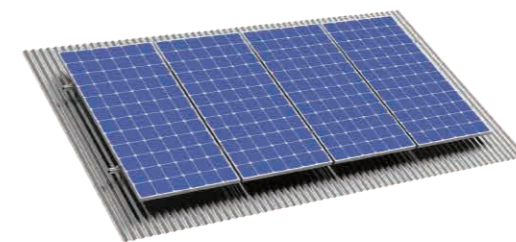
### STEP 2

Fix the rails to the bracket using the T-Head Connector.



### STEP 3

Place panels onto the rails and fix with mid clamps and end clamps.



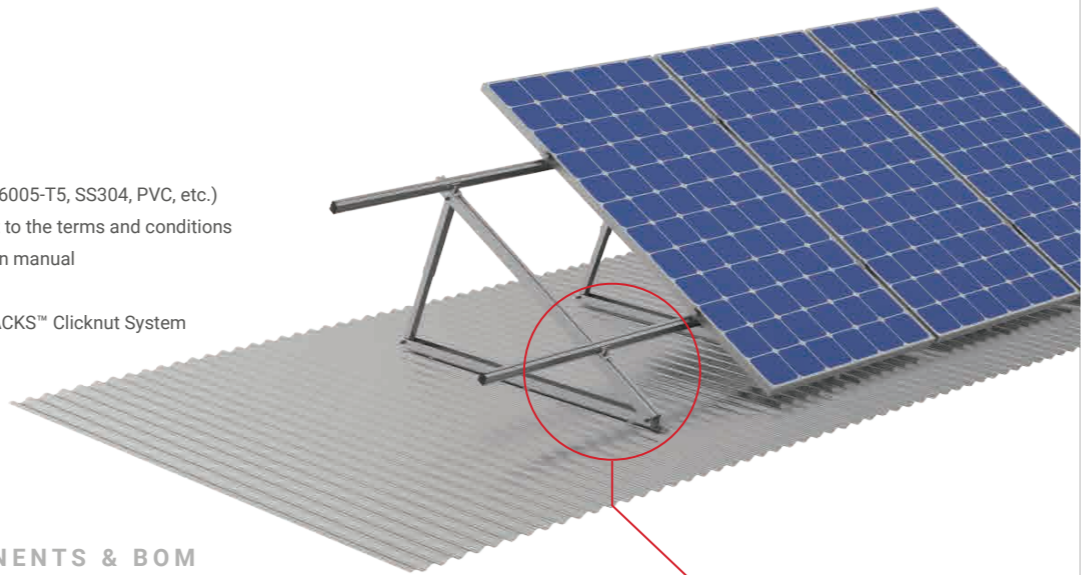
### STEP 4

Finish the installation.

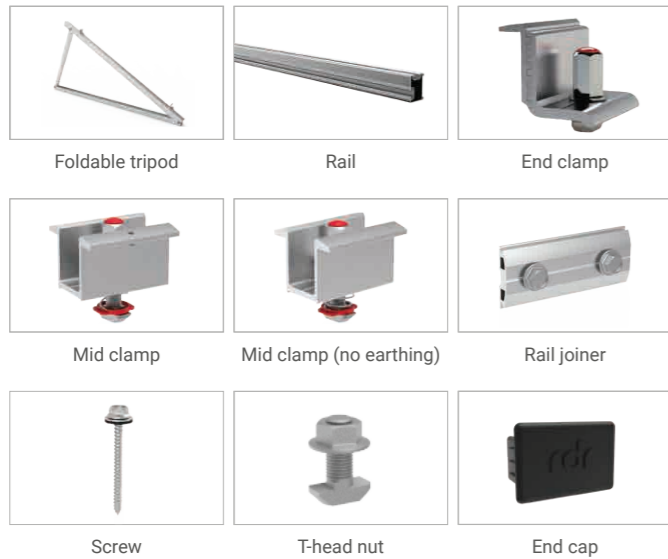
### Tilt Roof Kit

**MATERIAL** Mixture material (AL6005-T5, SS304, PVC, etc.)  
**WARRANTY** 12 years as subject to the terms and conditions  
**WIND SPEED** Refer to installation manual

Available in Red Dot Rack or RRACKS™ Clicknut System



#### ROOF KIT COMPONENTS & BOM



#### 4x Mod 10~30° Tilt Roof Kit

ITEM NO.	DESCRIPTION	QTY
317-0001	Folder tripod, 10~30°	4
300-0001	RDR rail piece, 4200mm	2
301-0002	Mid clamp, no earthing	6
302-0001	End clamp	4
303-0001	Rail joiner	2
112-0001	End cap	2
100-0006	Roofing screw	12
102-0001	EDPM rubber	12

#### 4x Mod 30~60° Tilt Roof Kit

ITEM NO.	DESCRIPTION	QTY
317-0002	Folder tripod, 30~60°	4
300-0001	RDR rail piece, 4200mm	2
301-0002	Mid clamp, no earthing	6
302-0001	End clamp	4
303-0001	Rail joiner	2
112-0001	End cap	2
100-0006	Roofing screw	12
102-0001	EDPM rubber	12

#### 4x Mod 30~60° Tilt Roof Kit w/ Rail 2.1m

ITEM NO.	DESCRIPTION	QTY
317-0001	Folder tripod, 10~30°	4
300-0005	RDR rail piece, 2110mm	4
301-0002	Mid clamp, no earthing	6
302-0001	End clamp	4
303-0001	Rail joiner	4
112-0001	End cap	2
100-0006	Roofing screw	12
102-0001	EDPM rubber	12

#### 4x Mod 10~30° Tilt Roof Earthing

ITEM NO.	DESCRIPTION	QTY
317-0001	Folder tripod, 10~30°	4
300-0001	RDR rail piece, 4200mm	2
301-0002	Mid clamp, no earthing	3
302-0001	End clamp	4
303-0001	Rail joiner	2
112-0001	End cap	2
100-0006	Roofing screw	12
102-0001	EDPM rubber	12
301-0013	Earthing mid clamp, built-in	3

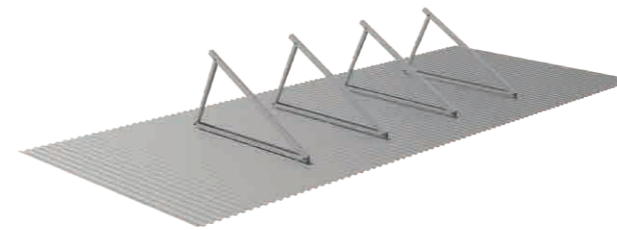
#### 4x Mod 30~60° Tilt Roof Kit Earthing

ITEM NO.	DESCRIPTION	QTY
317-0002	Folder tripod, 30~60°	4
300-0001	RDR rail piece, 4200mm	2
301-0002	Mid clamp, no earthing	3
302-0001	End clamp	4
303-0001	Rail joiner	2
112-0001	End cap	2
100-0006	Roofing screw	12
102-0001	EDPM rubber	12
301-0013	Earthing mid clamp, built-in	3

#### 4x Mod 30~60° Tilt Roof Kit

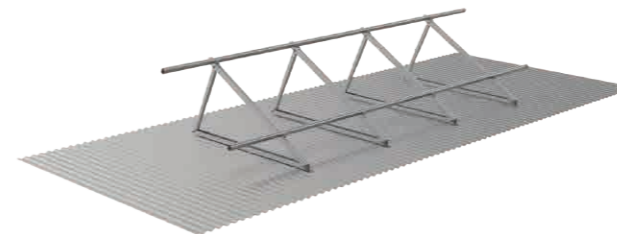
ITEM NO.	DESCRIPTION	QTY
317-0001	Folder tripod, 10~30°	4
300-0001	RDR rail piece, 4200mm	2
301-0002	Mid clamp, no earthing	3
302-0001	End clamp	4
303-0001	Rail joiner	2
112-0001	End cap	4
100-0006	Roofing screw	12
102-0001	EDPM rubber	12
301-0013	Earthing mid clamp, built-in	3

### Tilt Roof Kit Installation



#### STEP 1

Install the foldable tripod onto the roof sheet.



#### STEP 2

Fix the rails to the foldable tripod using the cross bracket.



#### STEP 3

Place panels onto the rails and fix using mid clamps and end clamps.



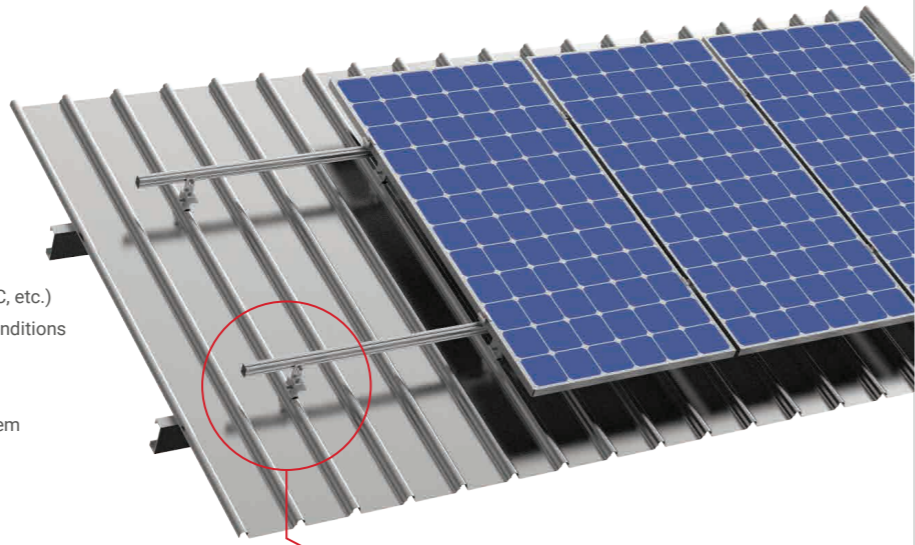
#### STEP 4

Finish the installation.

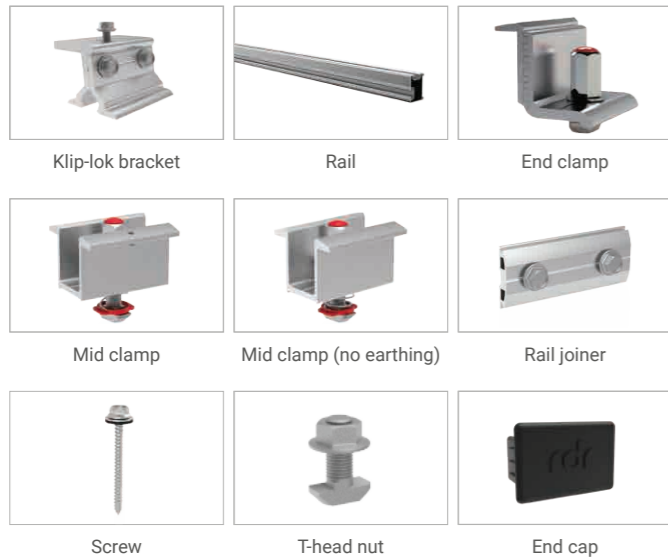
## Klip-Lok Roof Kit

**MATERIAL** Mixture material (AL6005-T5, SS304, PVC, etc.)  
**WARRANTY** 12 years as subject to the terms and conditions  
**WIND SPEED** Refer to installation manual

Available in Red Dot Rack or RRACKS™ Clicknut System



### ROOF KIT COMPONENTS & BOM



#### Klip-Lok 700

ITEM NO.	DESCRIPTION	QTY
314-0001	Klip-lok 700 bracket	10
304-0002	L-bracket	10
300-0001	RDR rail piece, 4200mm	2
301-0002	Mid clamp, no earthing	6
303-0001	Rail joiner	2
302-0001	End clamp	4
319-0007	T-head connector	10
112-0001	End cap	4

#### Klip-Lok 406

ITEM NO.	DESCRIPTION	QTY
314-0002	Klip-lok 406 bracket	10
304-0002	L-bracket	10
300-0001	RDR rail piece, 4200mm	2
301-0002	Mid clamp, no earthing	6
303-0001	Rail joiner	2
302-0001	End clamp	4
319-0007	T-head connector	10
112-0001	End cap	4

#### V750 Kit

ITEM NO.	DESCRIPTION	QTY
314-0005	V750 bracket	12
304-0002	L-bracket	12
300-0001	RDR rail piece, 4200mm	2
301-0002	Mid clamp, no earthing	3
303-0001	Rail joiner	2
302-0001	End clamp	4
319-0007	T-head connector	12
112-0001	End cap	4
301-0013	Earthing mid clamp, built-in	3

#### Klip-Lok 700 Earthing

ITEM NO.	DESCRIPTION	QTY
314-0001	Klip-lok 700 bracket	10
304-0002	L-bracket	10
300-0001	RDR rail piece, 4200mm	2
301-0002	Mid clamp, no earthing	3
303-0001	Rail joiner	2
302-0001	End clamp	4
319-0007	T-head connector	10
112-0001	End cap	4
301-0013	Earthing mid clamp, build-in	3

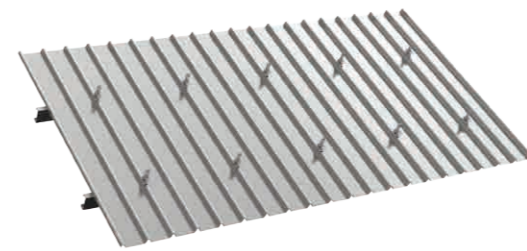
#### Klip-Lok 406 Earthing

ITEM NO.	DESCRIPTION	QTY
314-0002	Klip-lok 406 bracket	10
304-0002	L-bracket	10
300-0001	RDR rail piece, 4200mm	2
301-0002	Mid clamp, no earthing	3
303-0001	Rail joiner	2
302-0001	End clamp	4
319-0007	T-head connector	10
112-0001	End cap	4
301-0013	Earthing mid clamp, build-in	3

#### V600 Kit

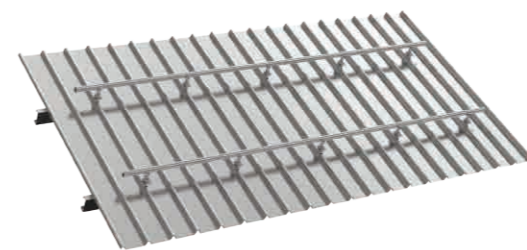
ITEM NO.	DESCRIPTION	QTY
314-0003	V600 bracket	14
300-0001	L-bracket	14
301-0002	RDR rail piece, 4200mm	2
302-0001	Mid clamp, no earthing	3
303-0001	Rail joiner	2
112-0001	End clamp	4
100-0006	T-head connector	14
102-0001	End cap	4
301-0013	Earthing mid clamp, built-in	3

## Klip-Lok Roof Kit Installation



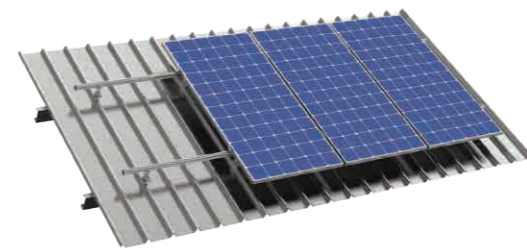
### STEP 1

Fix the Klip-lok bracket onto the roof sheet.



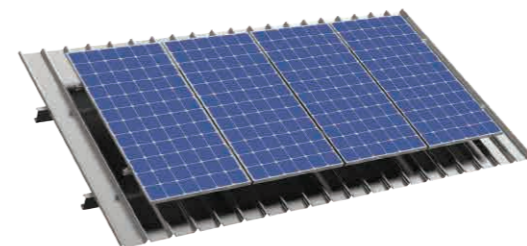
### STEP 2

Fix the rails to the Klip-lok bracket using the L-bracket and the T-Head Connector.



### STEP 3

Place the panels onto the rails and fix using mid clamps and end clamps.



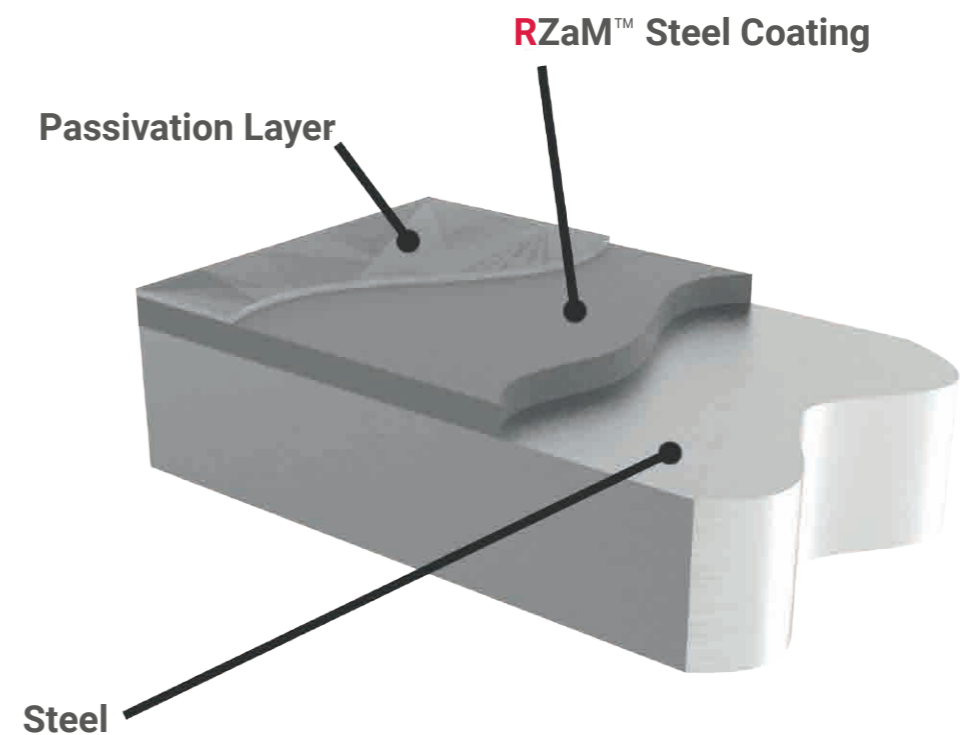
### STEP 4

Finish the installation.

“The most durable  
anti-corrosion coating”

**RZaM™** STEEL  
BY RRACKS®

**RZaM™** Steel is the latest breakthrough in rust-resistant coating. Its unique composition of zinc, aluminium and magnesium makes for an exceptional coating. Six times more rust-resistant than hot-dipped galvanized steel, this coating is preferred for all outside applications, especially in hostile environments.

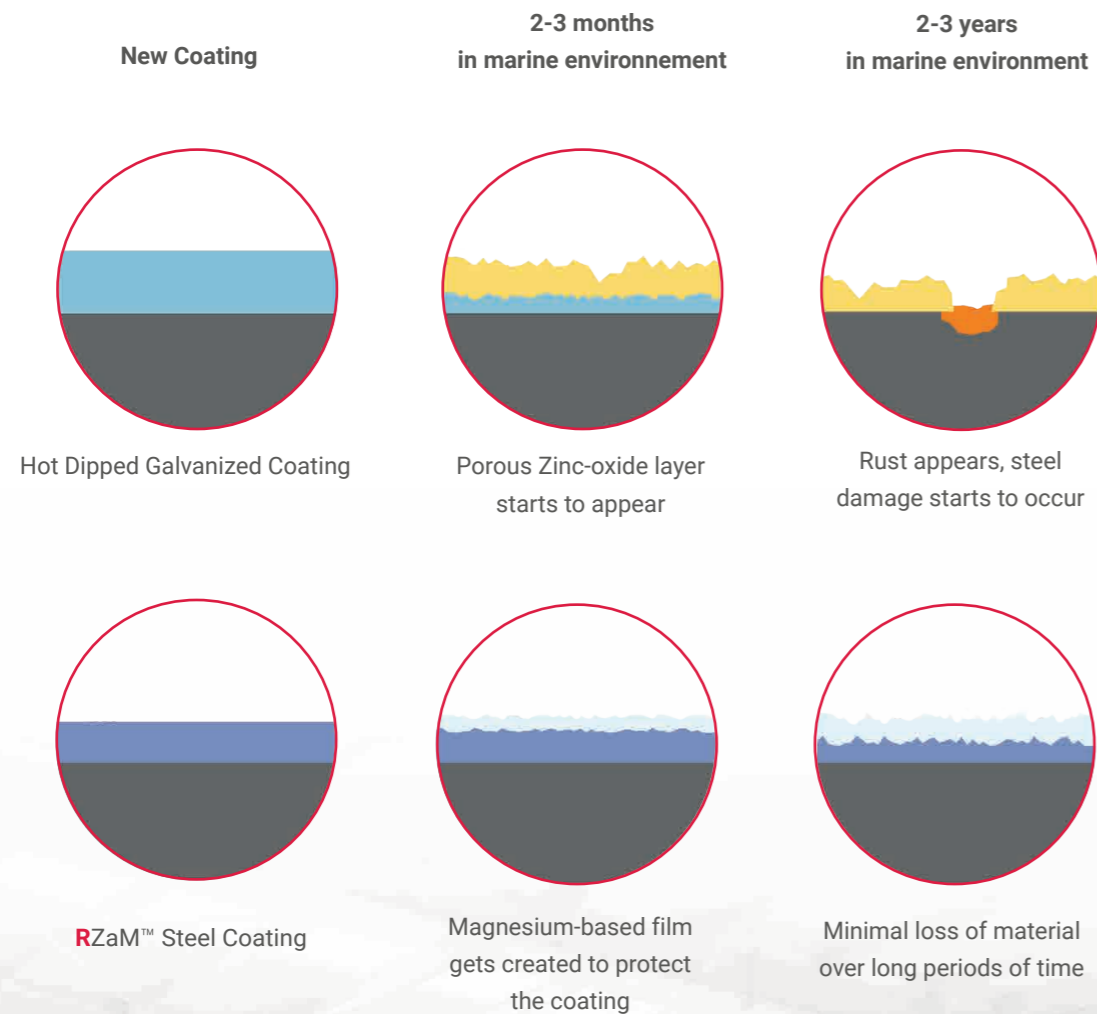


Its production process is much faster and easier than standard hot-dipped galvanized coating and therefore fits a wider variety of applications. The coating is applied in a molten bath and the passivation layer quickly forms on top of it after exposure to air. This layer prevents material loss and minimise zinc run-off to avoid soil degradation.

The production process is also more environmentally responsible as it emits half as much CO<sub>2</sub> as stainless steel production and one quarter of the emissions for the same weight in aluminium. The coating is also fully recyclable and will not cause a loss of material properties during recycling with other steel structures.

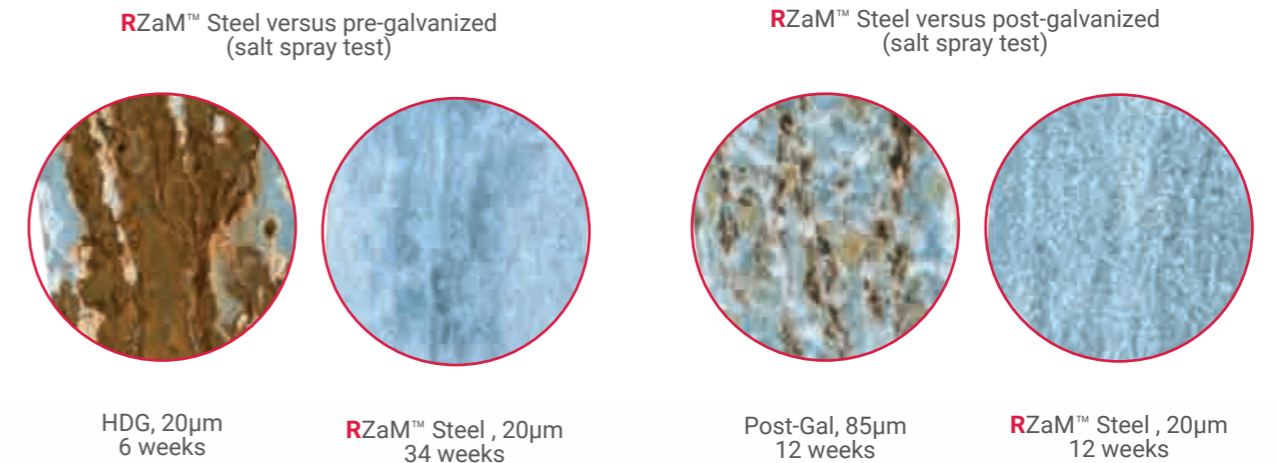
# THE DOMINANCE OF RZaM™ STEEL OVER GALVANIZED STEEL EXPLAINED

The unique composition of RZaM™ Steel is crucial and leads to the formation of a dense and stable layer of coating and a magnesium-based-film that acts as a barrier to corrosion by preventing the steel from coming into contact with the ambient environment.



This behaviour allows RZaM™ Steel to stay rust-free long after standard hot-dipped galvanized steel is completely corroded.

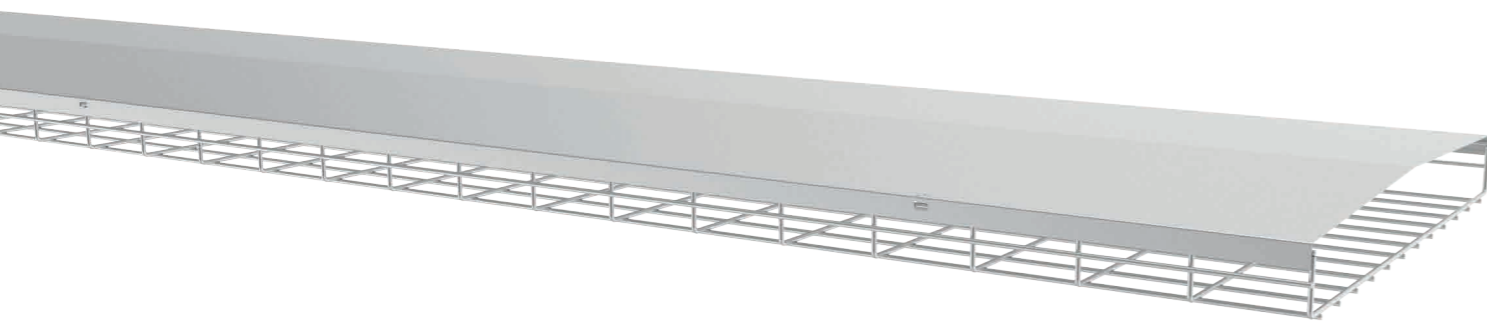
RZaM™ Steel will also form a dense layer on highly deformed zones to give these zones the same rust protection as flatter surfaces. This is a key advantage of the RZaM™ Steel coating that ensures that your parts are fully protected with no weak point where rust could cause an issue.



Lab testing and outdoor situation analysis have demonstrated that the RZaM™ Steel alloy coating material run-off rate is 11 times lower than pre-galvanized and 14 times lower than post-galvanized steel. This prevents a high concentration of zinc in soil and ground contamination.

The corrosion test, conducted in coastal areas, also shows a much higher rust resistance than both pre-galvanized and post-galvanized steel, even with a thinner coat and longer test duration.

# DISCOVER THE INCREDIBLE SELF-HEALING CAPACITY OF RZaM™ STEEL



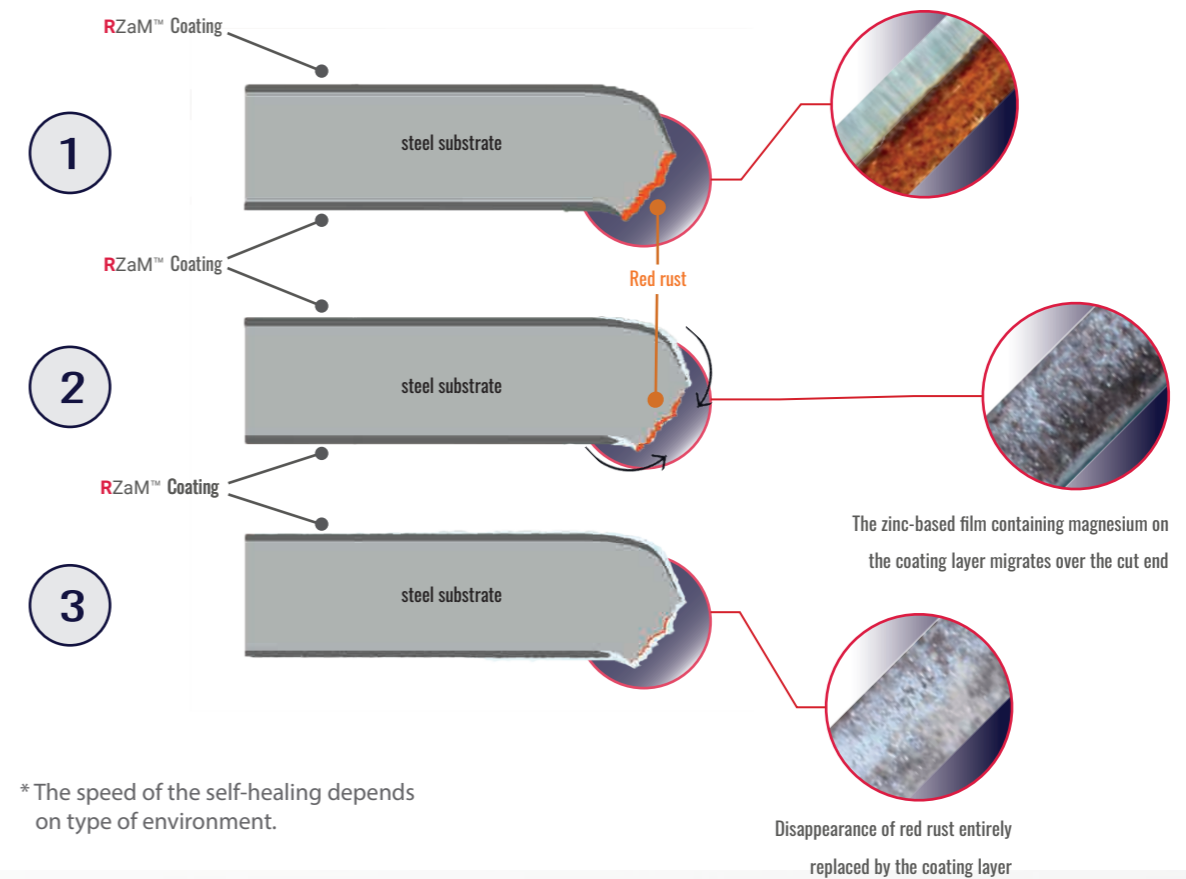
The RZaM™ Steel alloy coating is the world's first coating with self-healing capabilities. The dense zinc-base layer of the coating is able to migrate over the edges, welds, perforations and scratches to stop the expansion of rust.

The protective film formed by migration of the zinc layer is very resistant and will prevent further corrosion of your system on parts that would have normally been damaged during the installation process.

## “First Self-Healing coating for scratches, cuts and welds”

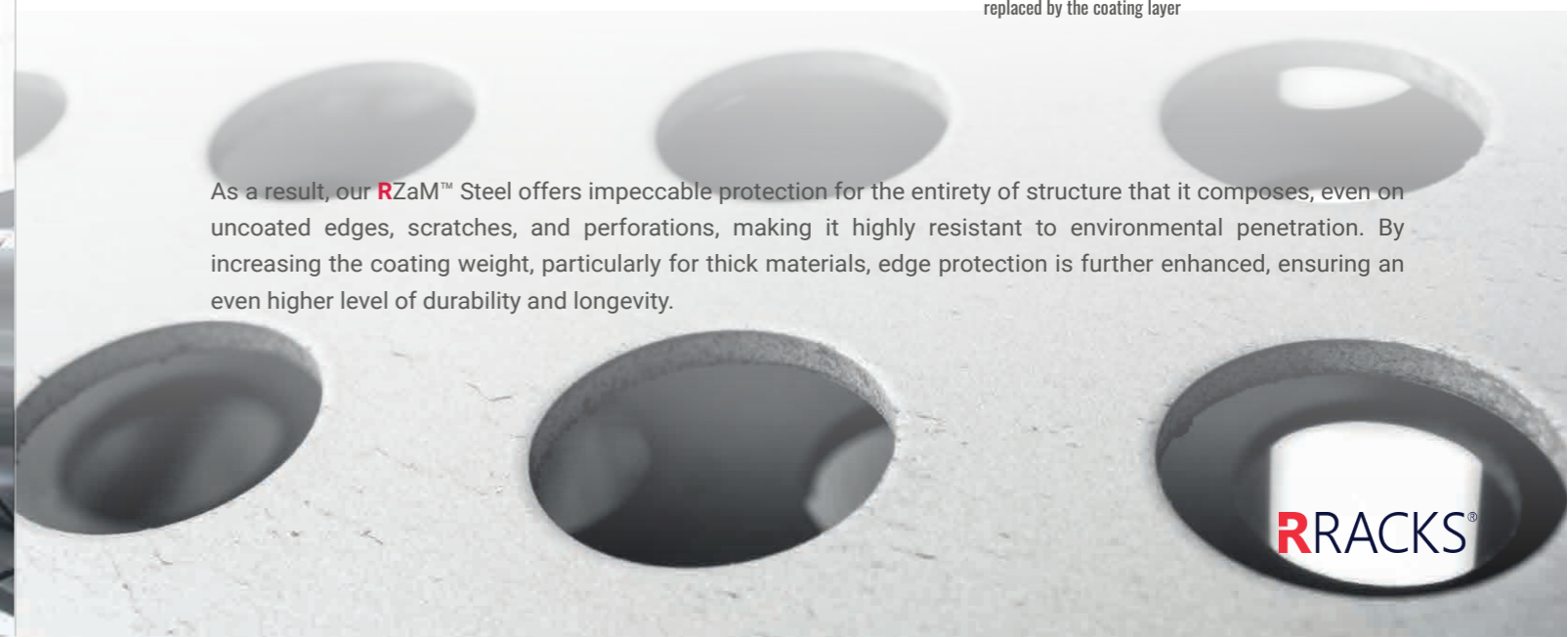


After a period of several weeks, exposed edges of the steel substrates undergo oxidation, which will lead to the forming of red rust (step 1). As the time goes on, rain and condensation contribute to the migration of the RZaM™ coating layer over the cut ends and exposed sections, which will progressively stop the rusting process and protect the steel substrate (step 2). Over an extended period, red rust gradually disappears, and the presence of a protective white layer will increase until entirely covering the exposed edges (step 3). With this innovative process, our RZaM™ Steel solutions offer the best long-term durability compared to any other type of coating.



RZaM STEEL

As a result, our RZaM™ Steel offers impeccable protection for the entirety of structure that it composes, even on uncoated edges, scratches, and perforations, making it highly resistant to environmental penetration. By increasing the coating weight, particularly for thick materials, edge protection is further enhanced, ensuring an even higher level of durability and longevity.



# GROUND MOUNT



## UTILITY GROUND MOUNT

UTILITY GROUND MOUNT SYSTEM

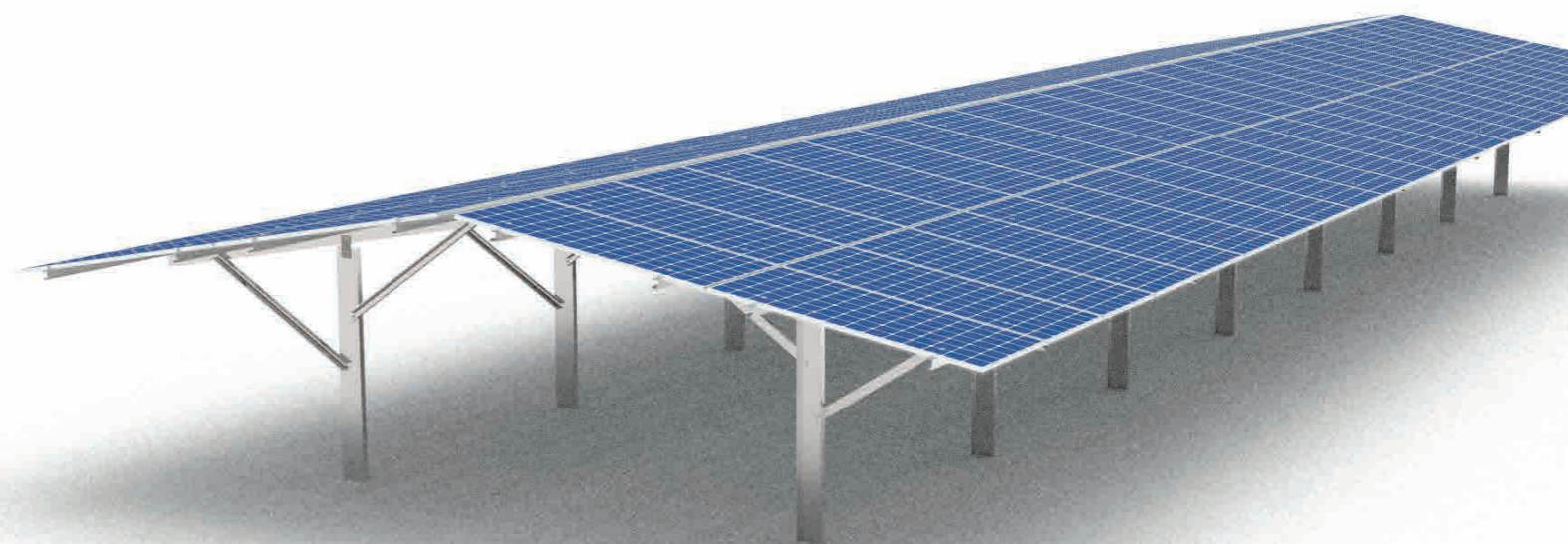
MATERIAL RZaM™ Steel

WARRANTY As subject to the terms and conditions

WIND SPEED Refer to installation manual

The **R**RACKS™ Utility Ground Mount System is made from the cutting edge anti-corrosion coating **RZaM™** to ensure a long-lasting project, even under harsh weather conditions. The structure has been designed with cost efficiency in mind to ensure maximum Return On Investment for your utility-scale ground mounted solar farm project.

“Design adjusted on a per-project basis”

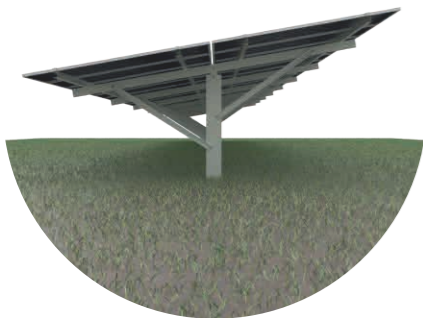
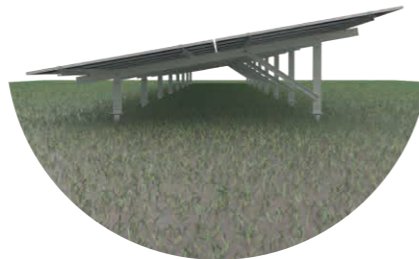


The **RRACKS™** utility ground mount system design is adjusted on a per-project basis to fit your requirement of panel size, orientation, height and soil capacity. Three configurations are available to adapt to every need.

## “Cost efficient structure to ensure maximum ROI”

### Duo Ground Screw Utility System

Is better for soft soils where you need stability for your system. Can be installed in both Single Pitch and East-West configurations.

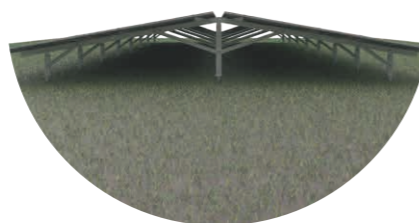


### Single Pile Utility System

Is better for harder soil and fast installation. Can be installed in both Single Pitch and East-West configurations.

### 3 Screw East-West Utility System

More cost efficient East-West configuration than the Duo Ground Screw Utility System.



## RZaM™ GROUND MOUNT

RZaM™ SYSTEM

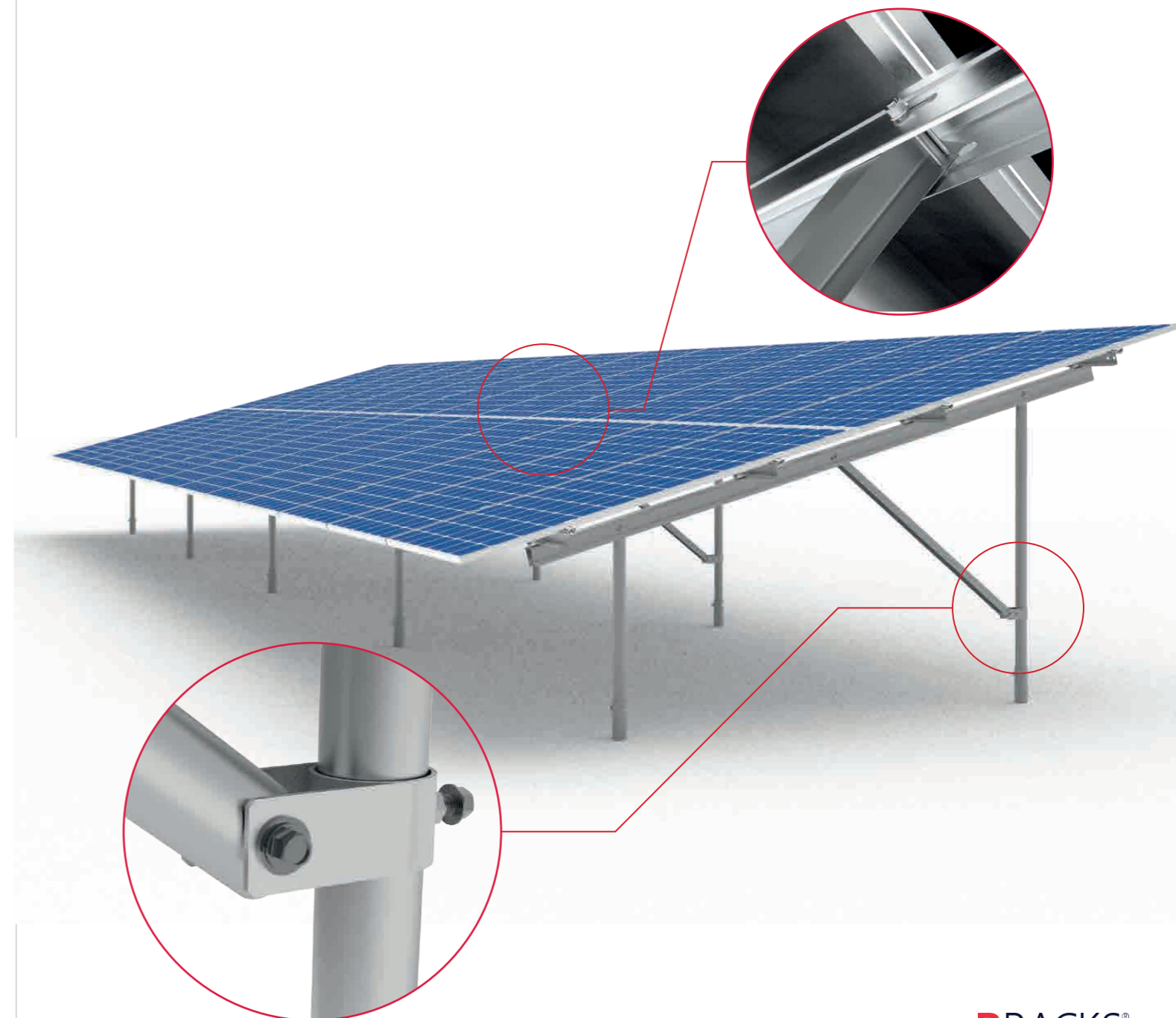
MATERIAL RZaM™ Steel

WARRANTY As subject to the terms and conditions

WIND SPEED Refer to installation manual

The **RZaM™** Ground Mount System is made from the cutting edge anti-corrosion coating **RZaM™** to ensure longevity, strength, and maximum cost efficiency.

GROUND MOUNT

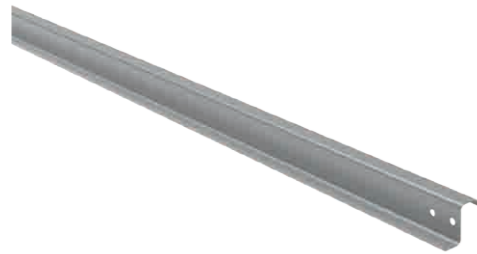




### RZaM™ Steel Tube

Steel Tube Cross Section Pipe is used in the cross section of the system to support the RRACKS™ Rails. Pipe will connect inside the truss. Custom length available.

ITEM NO.	MATERIAL	SPEC	FINISH
153-0002	Steel	Ø60x1002mm	ZM275
154-0002	Steel	Ø60x1443mm	ZM275



### RZaM™ Z-Purlin

RZaM™ Z-Purlin is designed to connect each steel frame together for both horizontal and vertical sections.

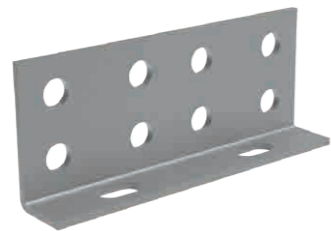
ITEM NO.	MATERIAL	SPEC	FINISH
160-0001	S250 Steel	5000mm	ZM275
160-0002	S250 Steel	2200mm	ZM275



### RZaM™ U-Profile

High strength RZaM™ U Profile for an easy connection, simply fit your tubes, and brace arms, and use M12 screws to secure in place.

ITEM NO.	MATERIAL	SPEC	FINISH
161-0001	S350 Steel	3800mm	ZM275



### RZaM™ Joiner Plate

RZaM™ Joiner for Z rail, allows high strength connection in both axis, is secured to the rail by M12 screws.

ITEM NO.	MATERIAL	SPEC	FINISH
158-0004	Q235 Steel	180x72.5x4mm	Galvanized



### Tube Sleeve

Steel Brace Arm Steel Sleeve. Design to be easily mounted on the vertical posts and easily connect to the brace arm, connects and tightens with M12 screws.

ITEM NO.	MATERIAL	SPEC	FINISH
158-0005	Steel	60mm tubes	Galvanized



### Ground Mount End Clamp

Ground Mount End Clamp secures your panel to the rail. The shape of the clamps allows infinite compatibility of the rails with the panel sizes.

ITEM NO.	MATERIAL	SPEC	FINISH
302-0045	AL 6005-T5	35mm panels	Anodized



### Ground Mount Mid Clamp

Ground Mount Mid Clamp secures your panel to the rail. The shape of the clamps allows infinite compatibility of the rails with the panel sizes.

ITEM NO.	MATERIAL	SPEC	FINISH
301-0027	AL 6005-T5	35mm panels	Anodized



### Rail Clamp Assembly

Rail Clamp Assembly. Easily and safely secure your rail to the truss. Allows for infinite adjustability of the rail spacing.

ITEM NO.	MATERIAL	SPEC	FINISH
376-0001	AL 6005-T5	49x49.5x30mm	Anodized



# HYBRID GROUND MOUNT

**HYBRID SYSTEM**

**MATERIAL** Mixture material (AL6005-T5, SS304, PVC, etc.)

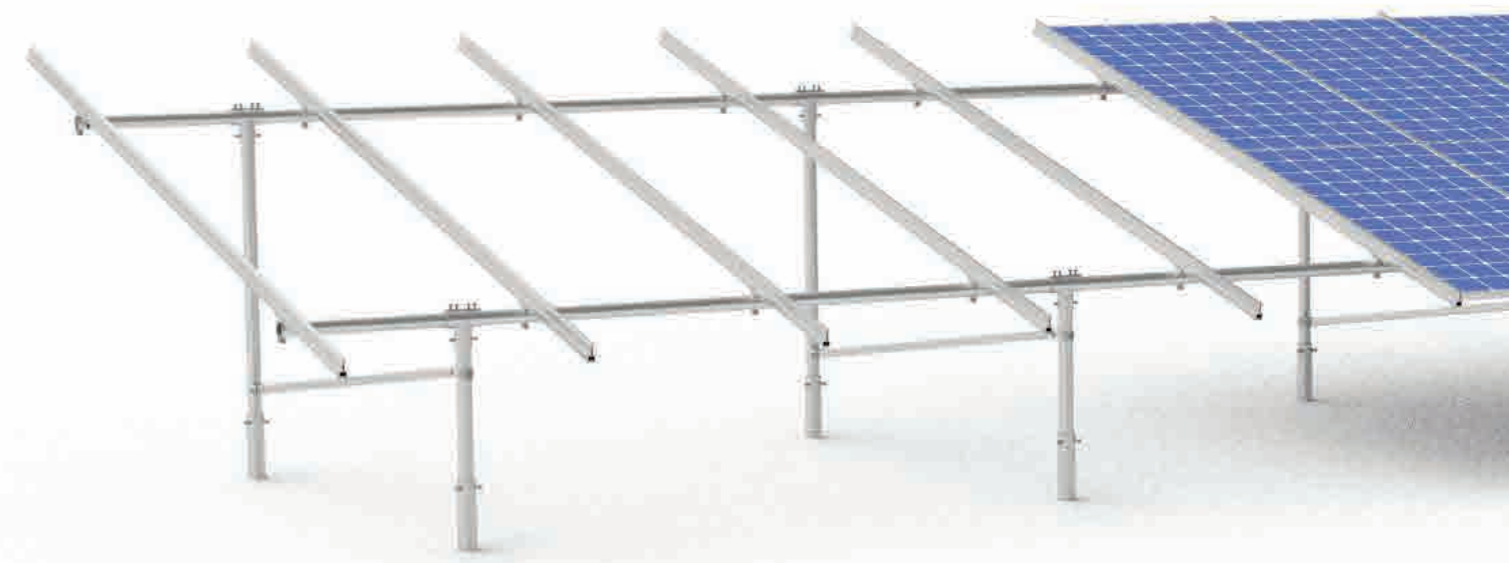
**WARRANTY** as subject to the terms and conditions

**WIND SPEED** Refer to installation manual

The **RRACKS**<sup>™</sup> hybrid ground mount system, carefully designed for ease of installation and longevity. Made from a combination of our 6000 series aluminium and our 80µm hot dipped galvanized steel to make sure your structure can withstand all the harsh weather condition you may encounter.

This structure can be mounted on concrete block or planted into the ground using our **RRACKS**<sup>™</sup> ground screws selection.

GROUND MOUNT



**GROUND KIT BOM**

**RRACKS**<sup>™</sup> Hybrid Portrait

ITEM NO.	DESCRIPTION	QTY
310-0001	Cross pipe connector	26
309-0001	T-connector	10
312-0001	Diagonal brace sleeve	10
100-0021	Hex screw, M12x15	30
112-0003	Slotted end cap	26
100-0023	Self-drilling screw	26
307-0011	Front leg piece	5
307-0008	Rear leg piece	5
307-0006	Cross pipe piece, 3.7m	3
308-0015	Slotted rail piece	13
313-0002	Brace arm piece	5
110-0002	Ground screw	10
307-0005	Cross pipe piece, 2.7m	4

**RRACKS**<sup>™</sup> Hybrid Landscape Flange-Based

ITEM NO.	DESCRIPTION	QTY
307-0001	Front leg, ground mount	5
307-0002	Rear leg, ground mount	5
309-0001	T-connector	10
307-0004	Cross pipe piece, 3.2m	4
307-0003	Cross pipe piece, 2.5m	4
310-0001	Cross pipe connector	24
308-0002	Clamp rail piece	12
313-0001	Brace arm	5
311-0001	Flange base post	10
302-0001	End clamp	24
301-0002	Mid clamp, no earthing	36
312-0001	Diagonal brace sleeve	10

**RRACKS**<sup>™</sup> Hybrid Portrait Steel Clamp

ITEM NO.	DESCRIPTION	QTY
308-0013	Galvanised rail piece, 5.4m	8
308-0014	Galvanised rail piece, 1.5m	4
308-0009	Truss piece, 3.15m	5
309-0002	Pivot bracket	15
307-0009	Oval end tube, 1.34m	5
307-0010	Oval end tube, 6.67m	5
312-0001	Diagonal brace sleeve	5
313-0002	Brace arm piece, 1.4m	5
302-0006	Fix end clamp	8
301-0003	Mid clamp	44
319-0002	Batten-truss connector	8
303-0002	Rail joiner	8
311-0001	Flange base post	10



### Steel Tube

Steel Tube Cross Section Pipe is used in the cross section of the system to support the RRACKS™ Rails. Pipe will connect and join via the T-Pipe Connector. Custom length available.

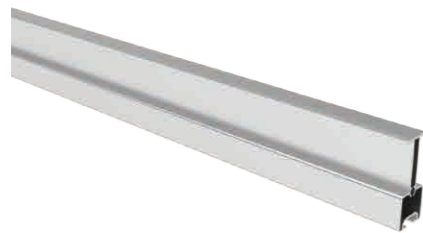
ITEM NO.	MATERIAL	SPEC	FINISH
136-0001	Steel	Ø60x700mm	Galvanised
136-0002	Steel	Ø60x1370mm	Galvanised
136-0003	Steel	Ø60x2500mm	Galvanised
136-0004	Steel	Ø60x3200mm	Galvanised



### T-Pipe Connector

RRACKS™ T-Pipe Connector Piece is designed to connect each steel frame together for both horizontal and vertical sections. Comes with 7 pieces of M10 hex nuts for fixing.

ITEM NO.	MATERIAL	SPEC	FINISH
138-0001	SUS304	Ø64mm	Galvanised



### Slot Rail Piece

RRACKS™ Aluminium Slot Rail is designed to fit with our steel frame, making it a 'hybrid' steel/aluminium structure. For assembly, use the rail with the Cross Pipe Connector and easily slide in the modules from top to bottom. Custom length available.

ITEM NO.	MATERIAL	SPEC	FINISH
308-0001	AL 6005-T5	Rail length 3912mm	Anodized



### Clamped Rail

RRACKS™ Aluminium Slot Rail is designed to fit with our steel frame, making it a 'hybrid' steel/aluminium structure. For assembly, use a connector and clamp the modules using RRACKS™ Clamps. Custom length available.

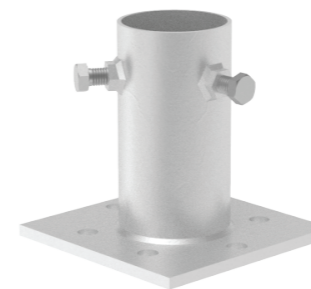
ITEM NO.	MATERIAL	SPEC	FINISH
308-0002	AL 6005-T5	Rail length 4200mm	Anodized



### Brace Arm

Brace Arm piece is designed for cross bracing the upper frame north, west, east and west. Can be joined to a steel pipe using the 312-0001 Diagonal Brace Sleeve.

ITEM NO.	MATERIAL	SPEC	FINISH
313-0001	Steel	402x2430mm	Galvanised



### Bottom Cap Piece

Bottom Cap Piece is used to connect the RRACKS™ frame to the base of the fixing of either concrete ballast or various ground screw fixings. Part includes 3 pieces of M12 hex screws for fixing the steel frame in place.

ITEM NO.	MATERIAL	SPEC	FINISH
139-0001	SUS304	Ø70mm	Galvanised



### Rail-to-Cross Pipe Connector

Rail-to-Cross Pipe Connector Assembly allows the connection of the module rail to the steel pipe frame. It is compatible with various module rails, including our aluminium and steel rails. Part includes all fixings.

ITEM NO.	MATERIAL	SPEC	FINISH
310-0002	AL 6005-T5	Ø60x30mm	Anodized



### Diagonal Braces Sleeve

Diagonal Braces Sleeve Assembly is used for adding square steel bracing arm between steel pipe framing. Comes with M10 nuts and bolts for its front and rear ends.

ITEM NO.	MATERIAL	SPEC	FINISH
312-0001	AL 6005-T5	Ø62mm	Anodized

GROUND MOUNT

# ALUMINIUM GROUND MOUNT

ALUMINIUM SYSTEM

MATERIAL AL6005-T5

WARRANTY 12 years as subject to the terms and conditions

WIND SPEED Refer to installation manual

The full aluminium **RRACKS™** ground mount system. The full system is made from aluminium to insure lightness and ease of installation even in remote areas. Being entirely aluminium, you will not ever have to worry about rust being an issue on your installation.

This structure can be mounted on concrete block or planted into the ground using our **RRACKS™** ground screws selection.





### Aluminium Truss

Acts as a rigid support for the RRACKS™ aluminium ground mount rail.

ITEM NO.	MATERIAL	SPEC	FINISH
327-0001	AL 6005-T5	60x100mm	Anodized



### Aluminium Ground Mount Rail

Acts as a support for the solar panels. Needs to be connected to the aluminium truss.

ITEM NO.	MATERIAL	SPEC	FINISH
328-0001	AL 6005-T5	50x100mm	Anodized



### Foot Pivot Bracket

Supports the RRACKS™ aluminium brace arm, can be connected to the ground screws or a concrete slab.

ITEM NO.	MATERIAL	SPEC	FINISH
350-0001	AL 6005-T5	1 connection	Anodized
350-0002	AL 6005-T5	2 connections	Anodized



### Head Pivot Bracket

Attaches the RRACKS™ aluminium brace arm to the aluminium truss.

ITEM NO.	MATERIAL	SPEC	FINISH
351-0001	AL 6005-T5	1 connection	Anodized
351-0002	AL 6005-T5	2 connections	Anodized



### Aluminium Brace Arm

Used to support the RRACKS™ aluminium truss, custom length according to the angle and size of the panels.

ITEM NO.	MATERIAL	SPEC	FINISH
352-0003	AL 6005-T5	60x60mm	Anodized



### Aluminium Rail Clamp

Used to attach the RRACKS™ Ground Mount Rail to the aluminium truss.

ITEM NO.	MATERIAL	FINISH
334-0001	AL 6005-T5	Anodized



### Aluminium Truss Assembly

RRACKS™ Aluminium full truss assembly, for 60 or 72 cells panels.

#### BOM

ITEM NO.	DESCRIPTION	QTY
350-0002	Foot pivot bracket 2 connections	7
350-0001	Foot pivot bracket, 1 connection	7
352-0001	Brace arm piece	7
352-0002	Brace arm piece	7
352-0003	Brace arm	7
351-0001	Head pivot bracket	3
327-0001	Alu truss piece	7



### Aluminium Mono Ground Mount System

RRACKS™ Aluminium Mono Ground Mount system, can be installed with piles rammed into the ground. The structure has been designed to ASNZ 1170 wind loading standard and can accommodate both larger and smaller panels.

ITEM NO.	MATERIAL	SPEC	FINISH
402-0010	AL 6005-T5	Small panels	Anodized
402-0011	AL 6005-T5	Large Panels	Anodized

#### ALUMINIUM GROUND MOUNT BOM FOR 16 PANELS

##### RRACKS™ Aluminium Mono Large Panels

ITEM NO.	DESCRIPTION	QTY
327-0002	H Beam Post	3
301-0002	Mid Clamp	28
302-0001	End Clamp	8
327-0002	Aluminium Truss	3
328-0001	Side Clamped Rail Piece	8
329-0001	Alu Clamped Rail Joiner	4
334-0001	Rail Clamp	24
351-0001	Head Pivot Bracket 70mm	9
351-0003	Post Brace Sleeve	6
351-0005	Post Pivot Head	1
352-0003	Brace Arm	6

##### RRACKS™ Aluminium Mono Small Panels

ITEM NO.	DESCRIPTION	QTY
327-0002	H Beam Post	3
301-0002	Mid Clamp	28
302-0001	End Clamp	8
327-0002	Aluminium Truss	3
328-0001	Side Clamped Rail Piece	8
329-0001	Alu Clamped Rail Joiner	4
334-0001	Rail Clamp	24
351-0001	Head Pivot Bracket 70mm	9
351-0003	Post Brace Sleeve	6
351-0005	Post Pivot Head	1
352-0003	Brace Arm	6



### Aluminium Duo Ground Mount System

RRACKS™ Aluminium Duo Ground Mount system, can be installed both with ground screws or on concrete piles. The structure has been designed to ASNZ 1170 wind loading standard and can accommodate both larger and smaller panels.

ITEM NO.	MATERIAL	SPEC	FINISH
402-0007	AL 6005-T5	Small panels	Anodized
402-0008	AL 6005-T5	Large Panels	Anodized

#### ALUMINIUM GROUND MOUNT BOM FOR 16 PANELS

##### RRACKS™ Aluminium Duo Large Panels

ITEM NO.	DESCRIPTION	QTY
100-0001	Ground Screw	6
301-0002	Mid Clamp	28
302-0001	End Clamp	8
327-0002	Aluminium Truss	3
328-0001	Side Clamped Rail Piece	8
329-0001	Alu Clamped Rail Joiner	4
334-0001	Rail Clamp	24
350-0001	Front Foot Pivot Bracket	3
350-0002	Rear Foot Pivot Bracket	3
351-0001	Head Pivot Bracket 70mm	3
351-0002	Head Pivot Bracket 140mm	3
352-0006	Brace Arm	9

##### RRACKS™ Aluminium Duo Small Panels

ITEM NO.	DESCRIPTION	QTY
100-0001	Ground Screw	6
301-0002	Mid Clamp	28
302-0001	End Clamp	8
327-0002	Aluminium Truss	3
328-0001	Side Clamped Rail Piece	8
329-0001	Alu Clamped Rail Joiner	4
334-0001	Rail Clamp	24
350-0001	Front Foot Pivot Bracket	3
350-0002	Rear Foot Pivot Bracket	3
351-0001	Head Pivot Bracket 70mm	3
351-0002	Head Pivot Bracket 140mm	3
352-0006	Brace Arm	9



GROUND MOUNT

# GROUND SCREWS



## Standard Thread (Flange Type)

RRACKS™ standard thread ground screw for ground mount. Annual and radial 6-hole flange type head.

ITEM NO.	MATERIAL	SPEC	FINISH
110-001-12	Steel	1200mm	Galvanised
110-001-16	Steel	1600mm	Galvanised
110-001-18	Steel	1800mm	Galvanised
110-001-20	Steel	2000mm	Galvanised
110-001-25	Steel	2500mm	Galvanised



## Standard Thread (Open Tube)

RRACKS™ standard thread ground screw for ground mount. Open tube type head.

ITEM NO.	MATERIAL	SPEC	FINISH
110-002-12	Steel	1200mm	Galvanised
110-002-16	Steel	1600mm	Galvanised
110-002-18	Steel	1800mm	Galvanised
110-002-20	Steel	2000mm	Galvanised
110-002-25	Steel	2500mm	Galvanised



## 2 Spiral Blades (Flange Type)

RRACKS™ two spiral thread ground screw for ground mount. Annual and radial 6-hole flange type head.

ITEM NO.	MATERIAL	SPEC	FINISH
110-003-12	Steel	1200mm	Galvanised
110-003-16	Steel	1600mm	Galvanised
110-003-18	Steel	1800mm	Galvanised
110-003-20	Steel	2000mm	Galvanised
110-003-25	Steel	2500mm	Galvanised



## 2 Spiral Blades (Open Tube)

RRACKS™ two spiral thread ground screw for ground mount. Open tube type head.

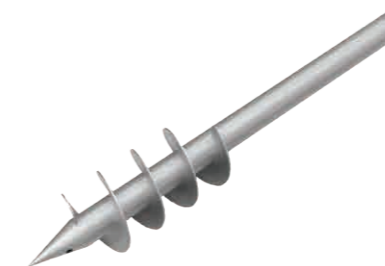
ITEM NO.	MATERIAL	SPEC	FINISH
110-004-12	Steel	1200mm	Galvanised
110-004-16	Steel	1600mm	Galvanised
110-004-18	Steel	1800mm	Galvanised
110-004-20	Steel	2000mm	Galvanised
110-004-25	Steel	2500mm	Galvanised



## 4 Continuous Spiral Blades (Flange Type)

RRACKS™ four continuous spiral thread ground screw for ground mount. Annual and radial 6-hole flange type head.

ITEM NO.	MATERIAL	SPEC	FINISH
110-005-12	Steel	1200mm	Galvanised
110-005-16	Steel	1600mm	Galvanised
110-005-18	Steel	1800mm	Galvanised
110-005-20	Steel	2000mm	Galvanised
110-005-25	Steel	2500mm	Galvanised



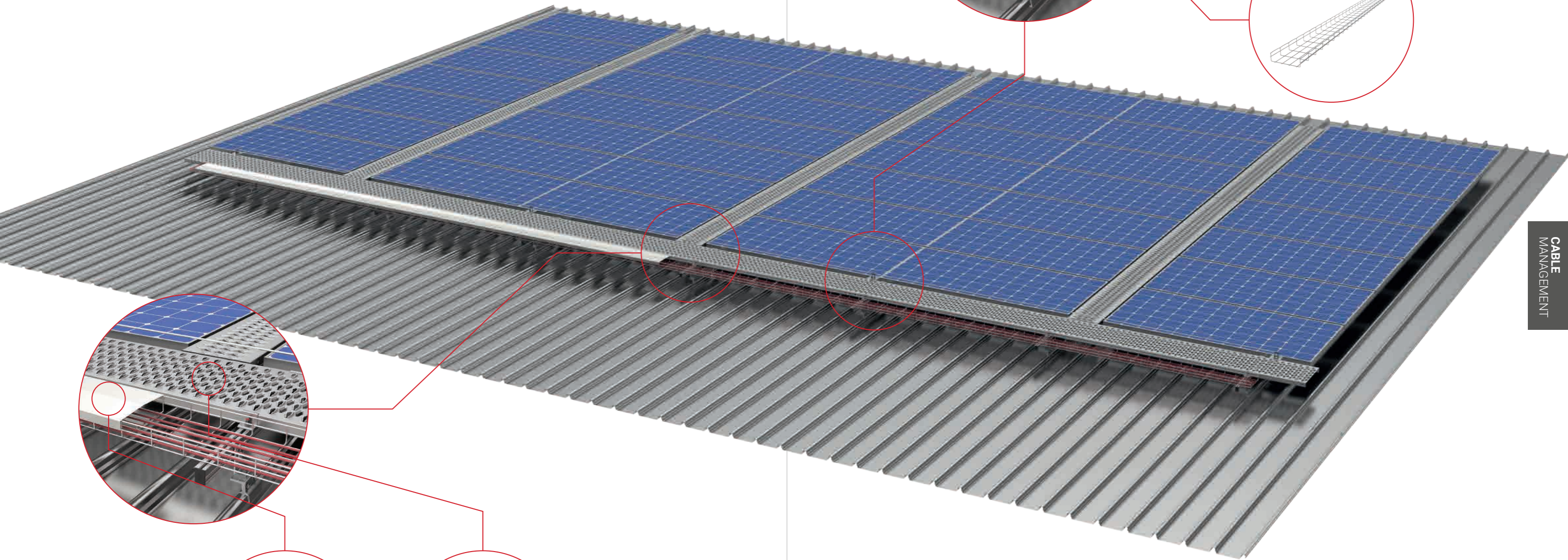
## 4 Continuous Spiral Blades (Open Tube)

RRACKS™™ four continuous spiral thread ground screw for ground mount. Open tube type head.

ITEM NO.	MATERIAL	SPEC	FINISH
110-006-12	Steel	1200mm	Galvanised
110-006-16	Steel	1600mm	Galvanised
110-006-18	Steel	1800mm	Galvanised
110-006-20	Steel	2000mm	Galvanised
110-006-25	Steel	2500mm	Galvanised

# CABLE MANAGEMENT AND INTEGRATED WALKWAY

Integrating your cable management close to the different walkways of your roof allows for easy access for maintenance. At RRACKS™, we always keep speed and ease in mind so that you can spend as little time as possible on the roof. We have also integrated the Lifeline anchor to make sure your operation is as safe as can be.



CABLE  
MANAGEMENT



# NORTHERN THAILAND

**CAPACITY** 5 MW

**SCOPE OF WORK** Engineering, Solar Mounting  
and Cable Management Solutions



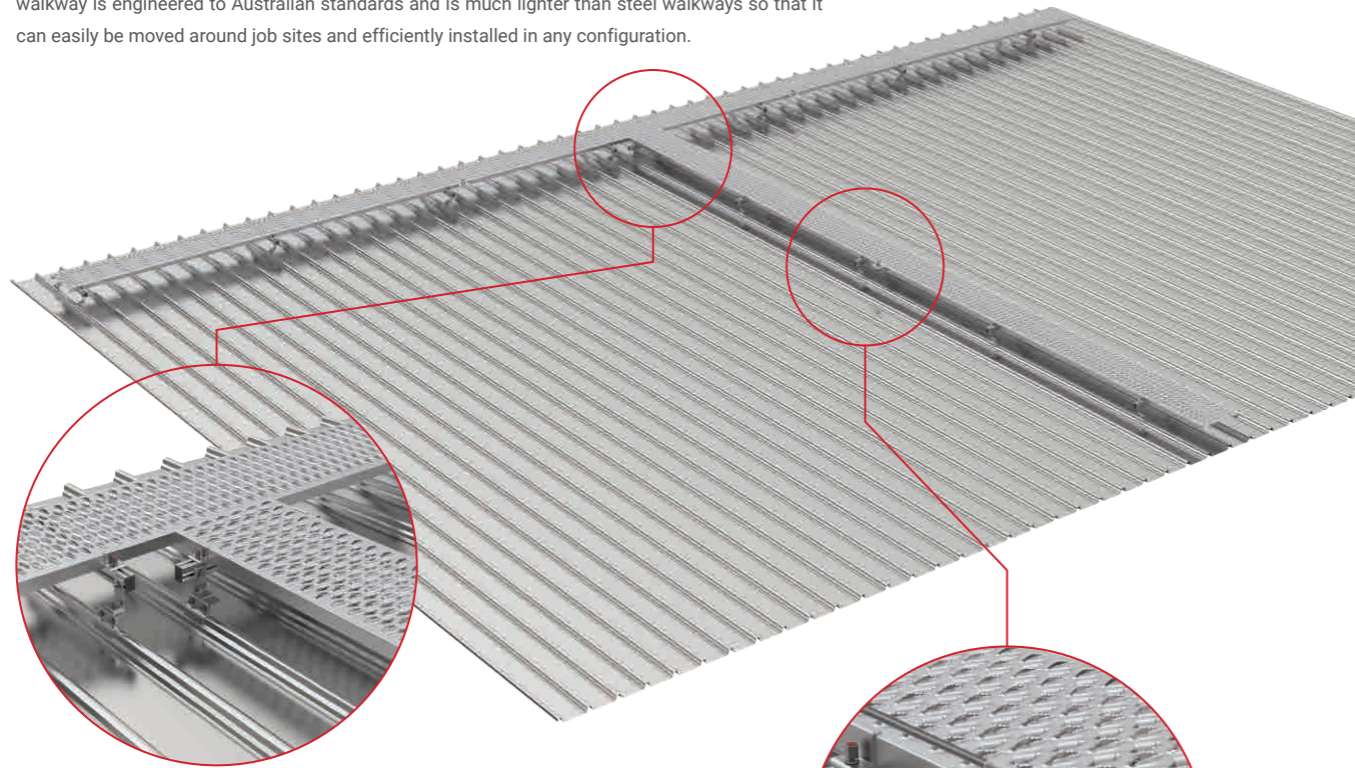
## Aluminum Walkway Kit

**MATERIAL** Mixture material (AL5052-H32, SS304, PVC, etc.)

**WARRANTY** 12 years as subject to the terms and conditions

**WIND SPEED** Refer to installation manual

**R**RACKS™ walkway is made from our 5000 series aluminium to prevent corrosion and to ensure your roof won't have any rust problems due to weather and aging over time. Our aluminium walkway is engineered to Australian standards and is much lighter than steel walkways so that it can easily be moved around job sites and efficiently installed in any configuration.



### WALKWAY KIT COMPONENTS & BOM



Walkway piece



Anchor



End clamp



Walkway joiner



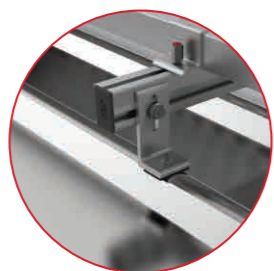
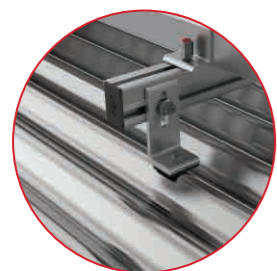
Screw



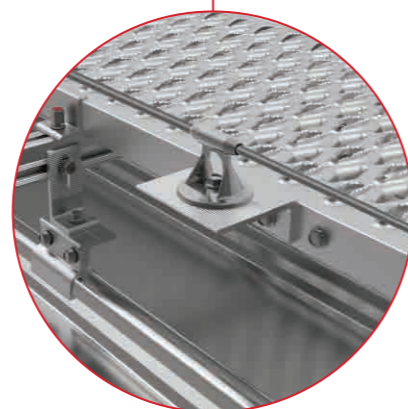
T-head nut



End cap



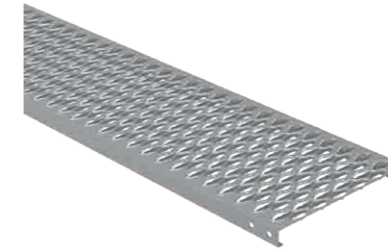
This product can also be attached to corrugated roof sheets, trapezoidal roof sheets and klip-lok roof sheets.



## Extruded Walkway Piece

Anti-slip fully aluminium extruded walkway piece. Attach to the Red Dot Rack aluminium rail to ensure a safe pathway while working on your roof.

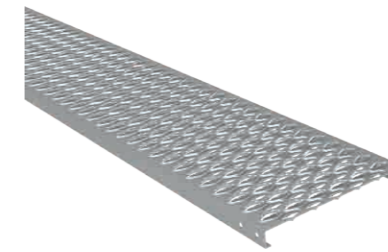
ITEM NO.	MATERIAL	SPEC
355-0047	AL 6063-T5	303X4000mm



## Walkway Piece

Anti-slip fully aluminium walkway piece. Attach to the Red Dot Rack aluminium rail to ensure a safe pathway while working on your roof.

ITEM NO.	MATERIAL	SPEC
355-0007	AL 5052-H32	300x3900mm
355-0006	AL 5052-H32	390x3900mm
355-0008	AL 5052-H32	600x3900mm



## Extruded Walkway Joiner

Used to join 2 pieces of walkway together as well as provide extra support for anchor attachment.

ITEM NO.	MATERIAL	FINISH
355-0048	AL 6005-T5	Galvanised



## Anchor

Lifeline anchor to ensure safety while working on the roof. Needs to be attached to a post or rigid structure

ITEM NO.	MATERIAL
130-0001	AISI 316



## Walkway Support Rail

Rail that allows you to use the Red Dot Rack clamps for your walkway but only anchor with 1 screw in the roof

ITEM NO.	MATERIAL	SPEC	FINISH
362-0001	AL 6005-T5	600mm walkway	Anodized
362-0002	AL 6005-T5	300/390mm walkway	Anodized



### Klip-Lok 700 Walkway Kit

ITEM NO.	DESCRIPTION	QTY
314-0001	Klip-lok 700 bracket	24
304-0002	L-bracket	24
300-0001	RDR rail piece	12
319-0007	T-head connector	24
302-0015	Fixed end clamp, 40mm	24
112-0001	End cap	24
355-0047	Extruded walkway piece, 4m	5
355-0048	Extruded walkway joiner	6
355-0005	Walkway L bracket	3

### Corrugated Walkway Kit

ITEM NO.	DESCRIPTION	QTY
100-0003	Roofing screw	24
304-0001	L-bracket	24
300-0001	RDR rail piece	12
319-0007	T-head connector	24
302-0015	Fixed end clamp, 40mm	24
112-0001	End cap	24
355-0047	Extruded walkway piece, 4m	5
355-0048	Extruded walkway joiner	6
355-0005	Walkway L bracket	3

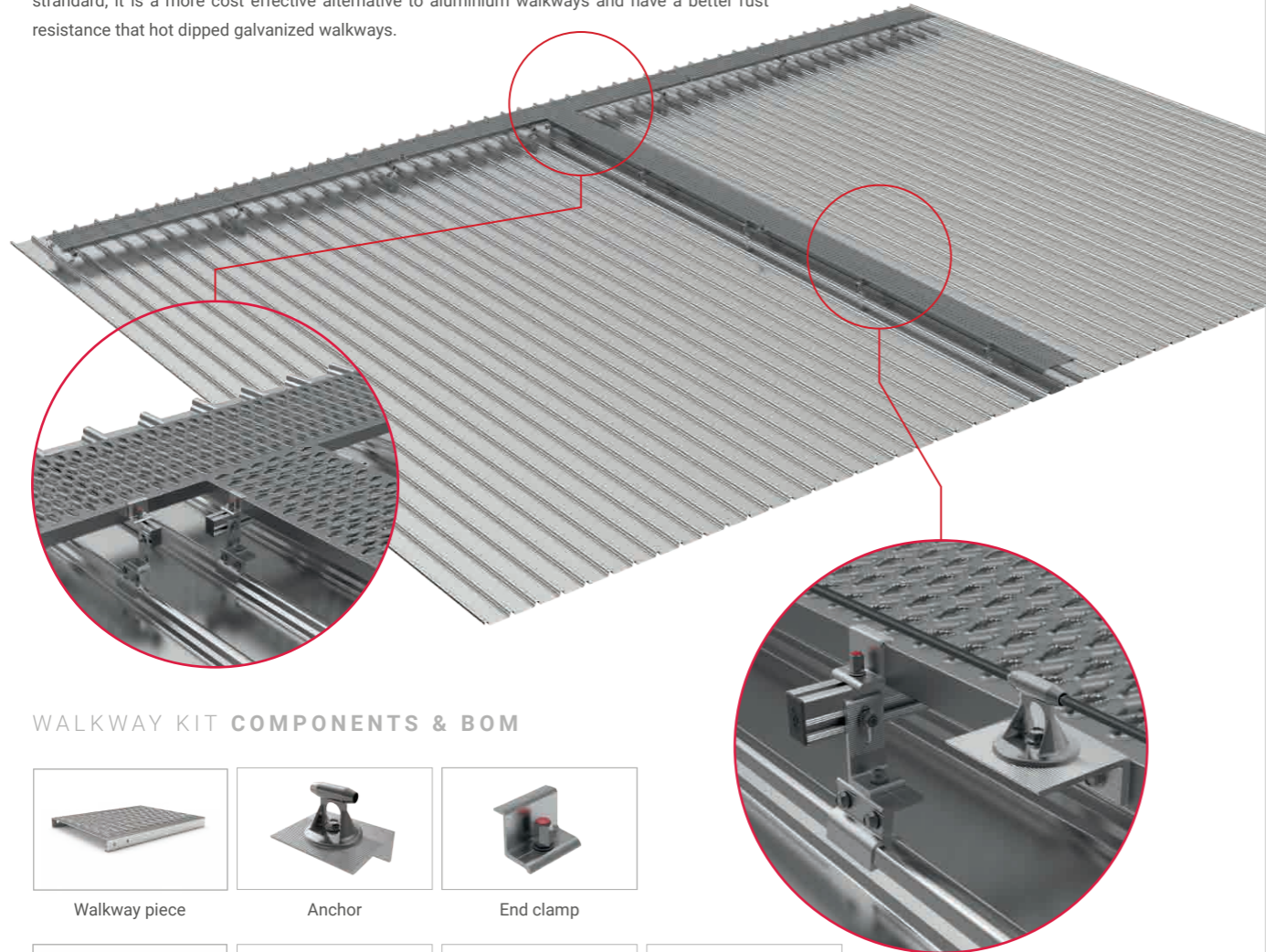
### Trapezoidal Walkway Kit

ITEM NO.	DESCRIPTION	QTY
100-0003	Roofing screw	24
304-0001	L-bracket	24
300-0001	RDR rail piece	12
319-0007	T-head connector	24
302-0015	Fixed end clamp, 40mm	24
112-0001	End cap	24
355-0047	Extruded walkway piece, 4m	5
355-0048	Extruded walkway joiner	6
355-0005	Walkway L bracket	3

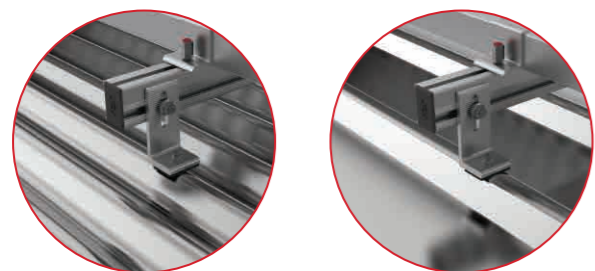
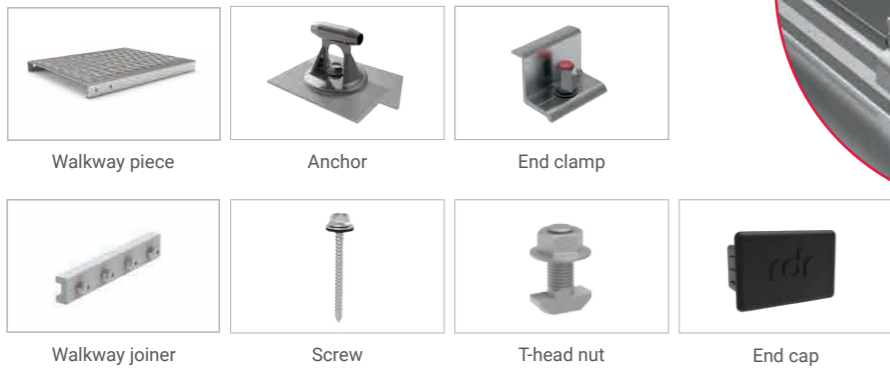
## RZaM™ Walkway Kit

**MATERIAL** Mixture material  
**WARRANTY** 12 years as subject to the terms and conditions  
**WIND SPEED** Refer to installation manual

Walkway made from our new RZaM™ coating. The higher resistance to corrosion compared to HDG walkway makes it more durable. The self healing properties of the coating also ensure that your usage of the system will not result in anticipated rusting of the walkways. Engineered to Australian standard, it is a more cost effective alternative to aluminium walkways and have a better rust resistance than hot dipped galvanized walkways.



### WALKWAY KIT COMPONENTS & BOM



This product can also be attached to corrugated roof sheets, trapezoidal roof sheets and klip-lok roof sheets.

## RZaM™ Walkway Piece

Anti-slip fully aluminium walkway piece. Attach to the Red Dot Rack aluminium rail to ensure a safe pathway while working on your roof.

ITEM NO.	MATERIAL	SPEC
355-0052	RZaM™	300x3900mm
355-0045	RZaM™	350x3900mm
355-0044	RZaM™	390x3900mm
355-0053	RZaM™	400x3900mm

## RZaM™ Walkway Joiner

Used to join 2 pieces of walkway together as well as provide extra support for anchor attachment.

ITEM NO.	MATERIAL	FINISH
355-0046	AL 6005-T5	Galvanised

## Anchor

Lifeline anchor to ensure safety while working on the roof. Needs to be attached to a post or rigid structure

ITEM NO.	MATERIAL
130-0001	AISI 316

## Walkway Support Rail

Rail that allows you to use the Red Dot Rack clamps for your walkway but only anchor with 1 screw in the roof

ITEM NO.	MATERIAL	SPEC	FINISH
362-0001	AL 6005-T5	600mm walkway	Anodized
362-0002	AL 6005-T5	300/390mm walkway	Anodized

### Klip-Lok 700 Walkway Kit

ITEM NO.	DESCRIPTION	QTY
314-0001	Klip-lok 700 bracket	24
304-0002	L-bracket	24
300-0001	RDR rail piece	12
319-0007	T-head connector	24
302-0015	Fixed end clamp, 40mm	24
112-0001	End cap	24
355-0052	RZaM™ walkway 300mm width	5
355-0046	RZaM™ walkway joiner	6
355-0005	Walkway L bracket	3

### Corrugated Walkway Kit

ITEM NO.	DESCRIPTION	QTY
100-0003	Roofing screw	24
304-0001	L-bracket	24
300-0001	RDR rail piece	12
319-0007	T-head connector	24
302-0015	Fixed end clamp, 40mm	24
112-0001	End cap	24
355-0052	RZaM™ walkway 300mm width	5
355-0046	RZaM™ walkway joiner	6
355-0005	Walkway L bracket	3

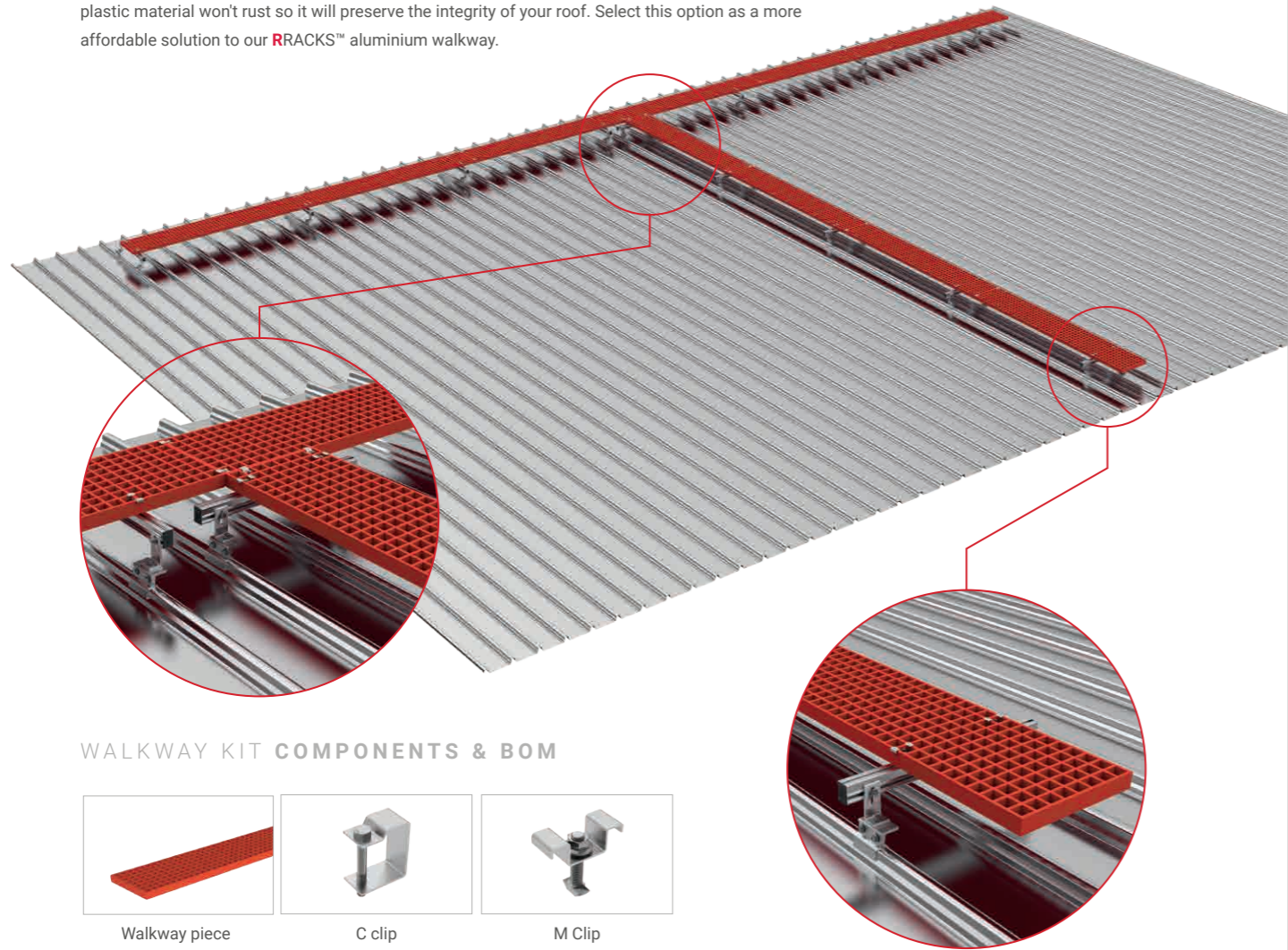
### Trapezoidal Walkway Kit

ITEM NO.	DESCRIPTION	QTY
100-0003	Roofing screw	24
304-0001	L-bracket	24
300-0001	RDR rail piece	12
319-0007	T-head connector	24
302-0015	Fixed end clamp, 40mm	24
112-0001	End cap	24
355-0052	RZaM™ walkway 300mm width	5
355-0046	RZaM™ walkway joiner	6
355-0005	Walkway L bracket	3

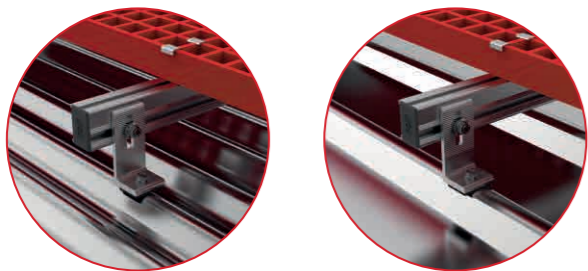
## FRP Walkway Kit

**MATERIAL** Mixture material (AL6005-T5, SS304, PVC, etc.)  
**WARRANTY** 5 years as subject to the terms and conditions  
**WIND SPEED** Refer to installation manual

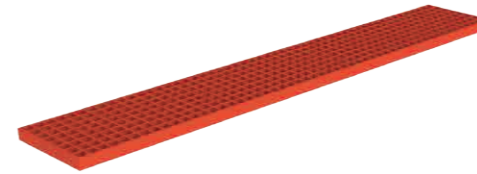
Fiber-Glass Reinforced Plastic walkway, can be fitted to the RRACKS™ standard aluminium rail. It is light enough to be moved around and installed with ease in all the different configurations. Its plastic material won't rust so it will preserve the integrity of your roof. Select this option as a more affordable solution to our RRACKS™ aluminium walkway.



### WALKWAY KIT COMPONENTS & BOM



This product can also be attached to corrugated roof sheets, trapezoidal roof sheets and klip-lok roof sheets.



## FRP Walkway Piece

Fiber Glass reinforced Walkway. Different thickness available.

ITEM NO.	MATERIAL	SPEC
131-0001	FRP	402x2430mm



## M Clip for FRP Walkway

Aluminium clip used to connect the FRP to the Red Dot Rack standard aluminium rail.

ITEM NO.	MATERIAL	FINISH
355-0009	AL 6005-T5	Galvanised



## C Clip for FRP Walkway

Aluminium clip used to connect 2 pieces of FRP walkway.

ITEM NO.	MATERIAL	FINISH
355-0010	AL 6005-T5	Anodized



## Walkway Support Rail

Rail that allows you to use the Red Dot Rack clamps for your walkway but only anchor with 1 screw in the roof

ITEM NO.	MATERIAL	SPEC	FINISH
362-0001	AL 6005-T5	600mm walkway	Anodized
362-0002	AL 6005-T5	300/390mm walkway	Anodized

### Klip-Lok 700 Walkway Kit

ITEM NO.	DESCRIPTION	QTY
314-0001	Klip-lok 700 bracket	24
304-0002	L-bracket	24
300-0001	RDR rail piece	12
319-0007	T-head connector	24
131-0002	M-Clip	40
112-0001	End cap	24
131-0001	FRP walkway piece, 2m	10
131-0003	C-Clip	16
355-0005	Walkway L-bracket	3

### Corrugated Walkway Kit

ITEM NO.	DESCRIPTION	QTY
314-0001	Klip-lok 700 bracket	24
304-0002	L-bracket	24
300-0001	RDR rail piece	12
319-0007	T-head connector	24
131-0002	M-Clip	40
112-0001	End cap	24
131-0001	FRP walkway piece, 2m	10
131-0003	C-Clip	16
355-0005	Walkway L-bracket	3

### Trapezoidal Walkway Kit

ITEM NO.	DESCRIPTION	QTY
314-0001	Roofing screw	24
304-0002	L-bracket	24
300-0001	RDR rail piece	12
319-0007	T-head connector	24
131-0002	M-Clip	40
112-0001	End cap	24
131-0001	Walkway piece, 4m	10
131-0003	C-Clip	16
355-0005	Walkway L bracket	3

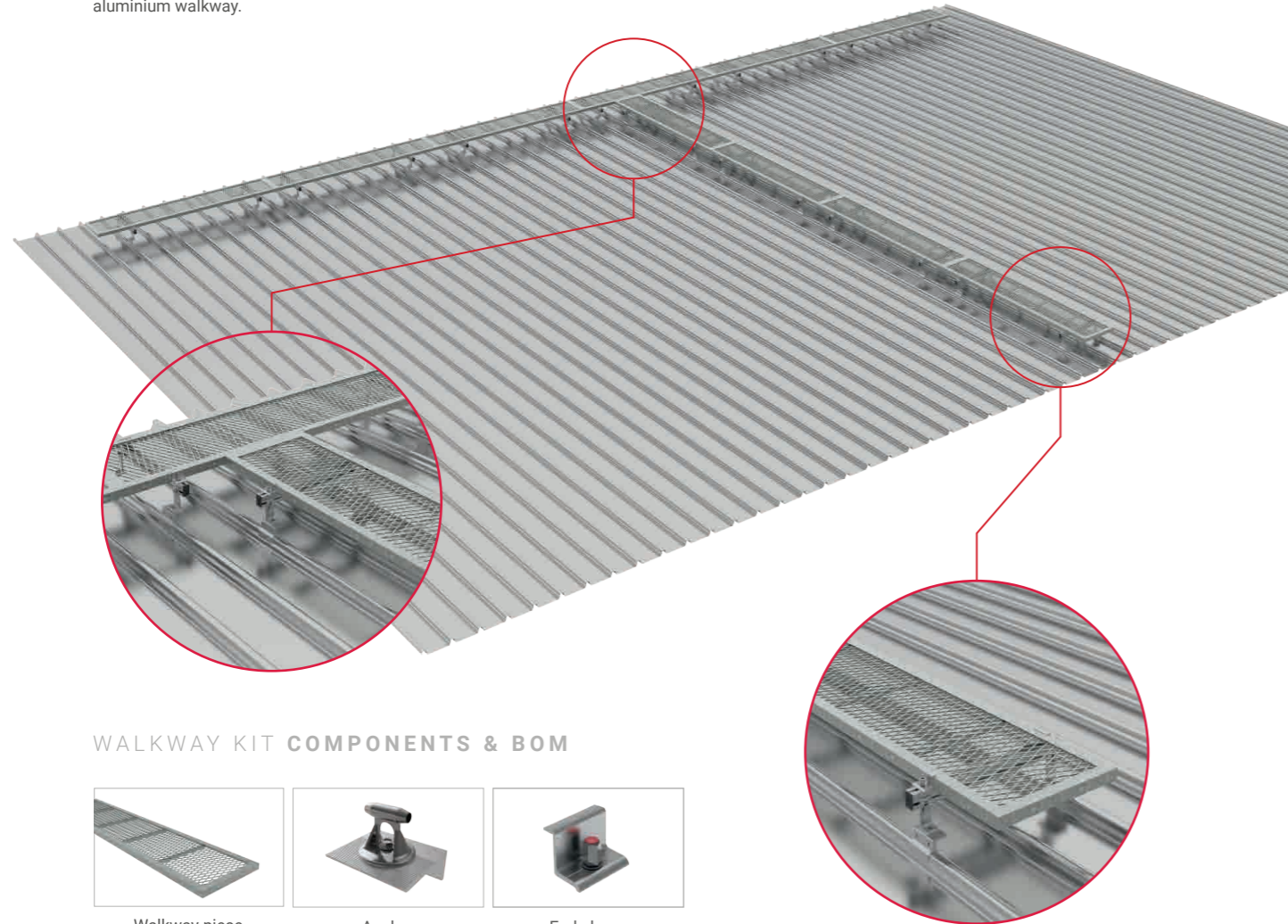
## Hot Dipped Galvanized Walkway

**MATERIAL** Mixture material (AL6005-T5, HDG Steel, SUS304)

**WARRANTY** 5 years as subject to the terms and conditions

**WIND SPEED** Refer to installation manual

Galvanized Steel walkway, can be fitted to the RRACKS™ standard aluminium rail. It is very strong and won't be flexible on your roof. Select this option as a more affordable solution to our RRACKS™ aluminium walkway.



### WALKWAY KIT COMPONENTS & BOM



Walkway piece



Anchor



End clamp



Walkway joiner



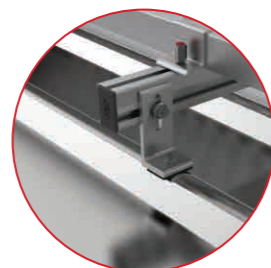
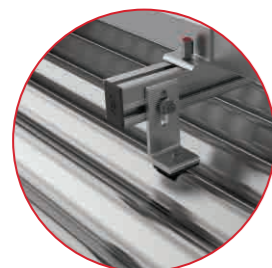
Screw



T-head nut



End cap



This product can also be attached to corrugated roof sheets, trapezoidal roof sheets and klip-lok roof sheets.



## HDG Walkway Piece

Strong walkway made of galvanized steel.

ITEM NO.	MATERIAL	SPEC
361-0001	Hot Dipped Galvanized Steel	400x4000mm



## Fixed End Clamp

Red Dot Rack Fixed End Clamp is designed to fit the 35mm high HDG walkway.

ITEM NO.	MATERIAL	SPEC	FINISH
302-0014	AL 6005-T5	50x38x35mm	Anodized



## Anchor

Lifeline anchor to ensure safety while working on the roof. Needs to be attached to a post or rigid structure

ITEM NO.	MATERIAL
130-0001	AISI 316



## Walkway Support Rail

Rail that allows you to use the Red Dot Rack clamps for your walkway but only anchor with 1 screw in the roof

ITEM NO.	MATERIAL	SPEC	FINISH
362-0001	AL 6005-T5	600mm walkway	Anodized
362-0002	AL 6005-T5	300/390mm walkway	Anodized

### Klip-Lok 700 Walkway Kit

ITEM NO.	DESCRIPTION	QTY
314-0001	Klip-lok 700 bracket	24
304-0002	L-bracket	24
300-0001	RDR rail piece	12
319-0007	T-head connector	24
302-0015	Fixed end clamp, 40mm	24
112-0001	End cap	24
361-0001	Walkway piece, 4m	5
355-0004	Walkway joiner	6
355-0005	Walkway L bracket	3

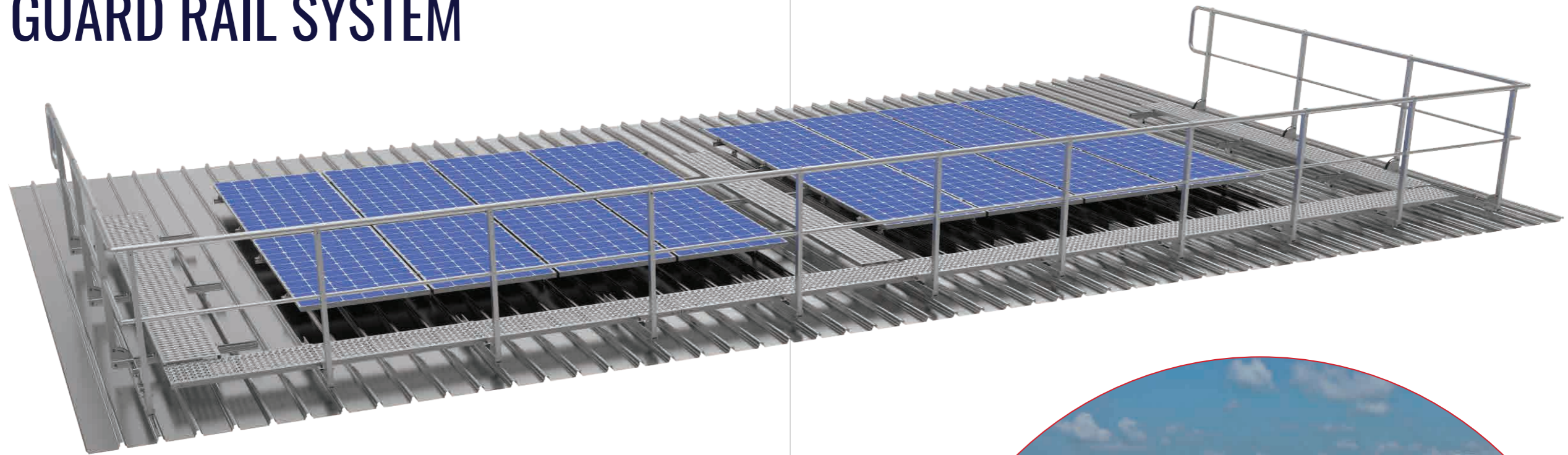
### Corrugated Walkway Kit

ITEM NO.	DESCRIPTION	QTY
100-0003	Roofing screw	24
304-0001	L-bracket	24
300-0001	RDR rail piece	12
319-0007	T-head connector	24
302-0015	Fixed end clamp, 40mm	24
112-0001	End cap	24
361-0001	Walkway piece, 4m	5
355-0004	Walkway joiner	6
355-0005	Walkway L bracket	3

### Trapezoidal Walkway Kit

ITEM NO.	DESCRIPTION	QTY
100-0003	Roofing screw	24
304-0001	L-bracket	24
300-0001	RDR rail piece	12
319-0007	T-head connector	24
302-0015	Fixed end clamp, 40mm	24
112-0001	End cap	24
361-0001	Walkway piece, 4m	5
355-0004	Walkway joiner	6
355-0005	Walkway L bracket	3

# EDGE PROTECTION GUARD RAIL SYSTEM



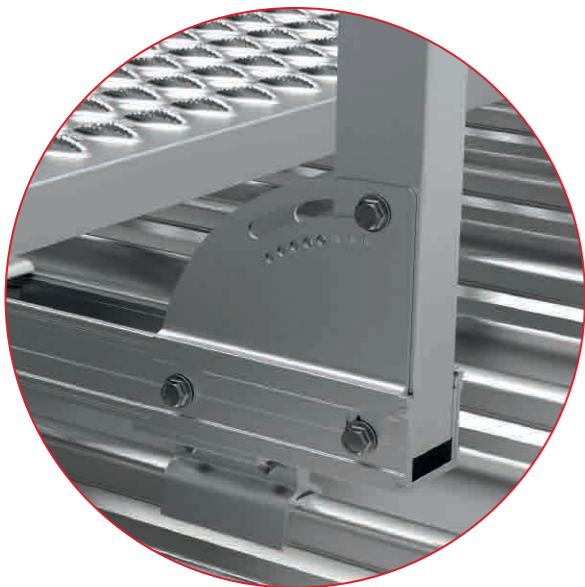
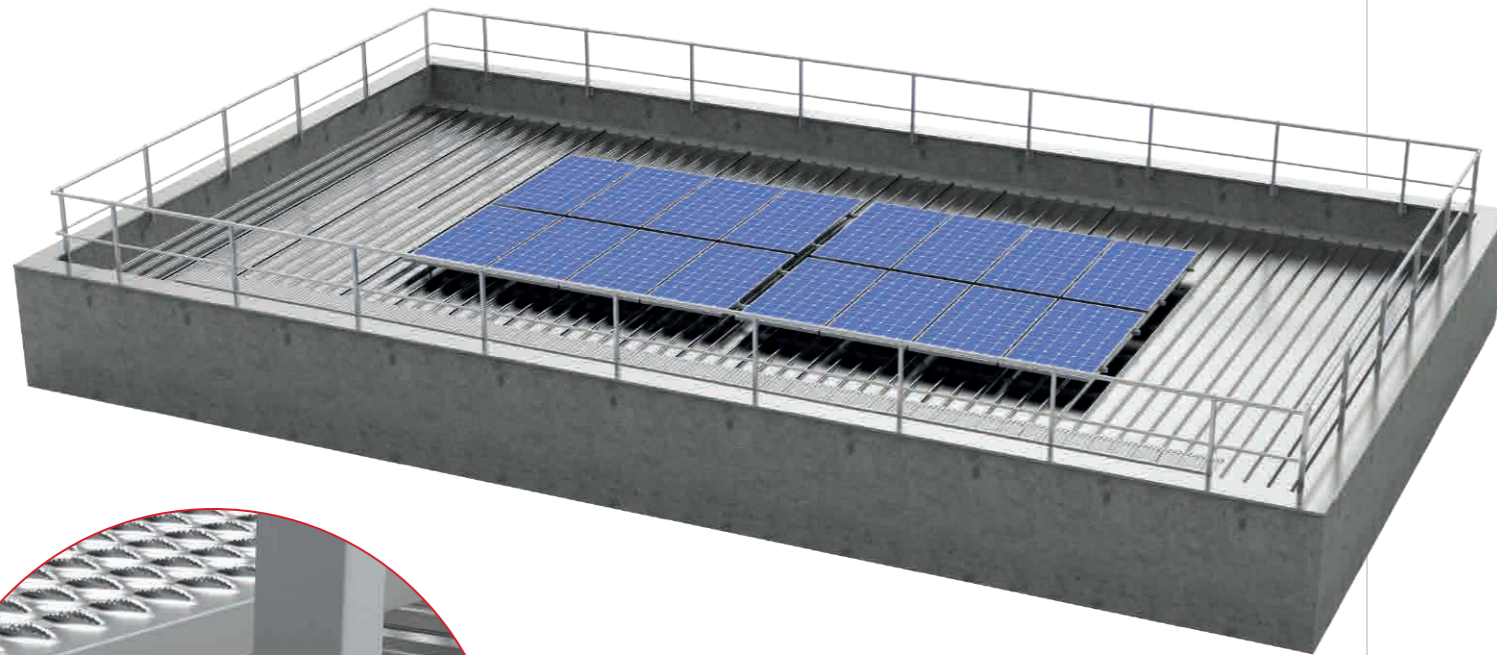
Integrating your **RRACKS™** Edge Protection guardrail with the walkways of your roof allows for safe and easy access for installation, maintenance and cleaning.

At **RRACKS™**, we always keep speed, efficiency of installation and safety in mind so that you can spend as little time as possible on the roof. **RRACKS™** Edge Protection guard rails ensure height safety compliance and eliminate hazards, reducing the risk of worker injury and liability concerns.

**RRACKS™** Edge Protection guardrails are made from our 6000 series aluminium to prevent corrosion and to ensure your guardrails won't have any rust problems due to weather and aging over time. Our aluminium guard rails are engineered to Australian standards and are much lighter than steel guard rails for hassle-free and efficient installation.



# “Can be installed on corrugated roof, concrete roof, trapezoidal and Klip-lok roof sheets”



You are able to adjust the angle of the mounting to suit the specific requirement and profile of the building.

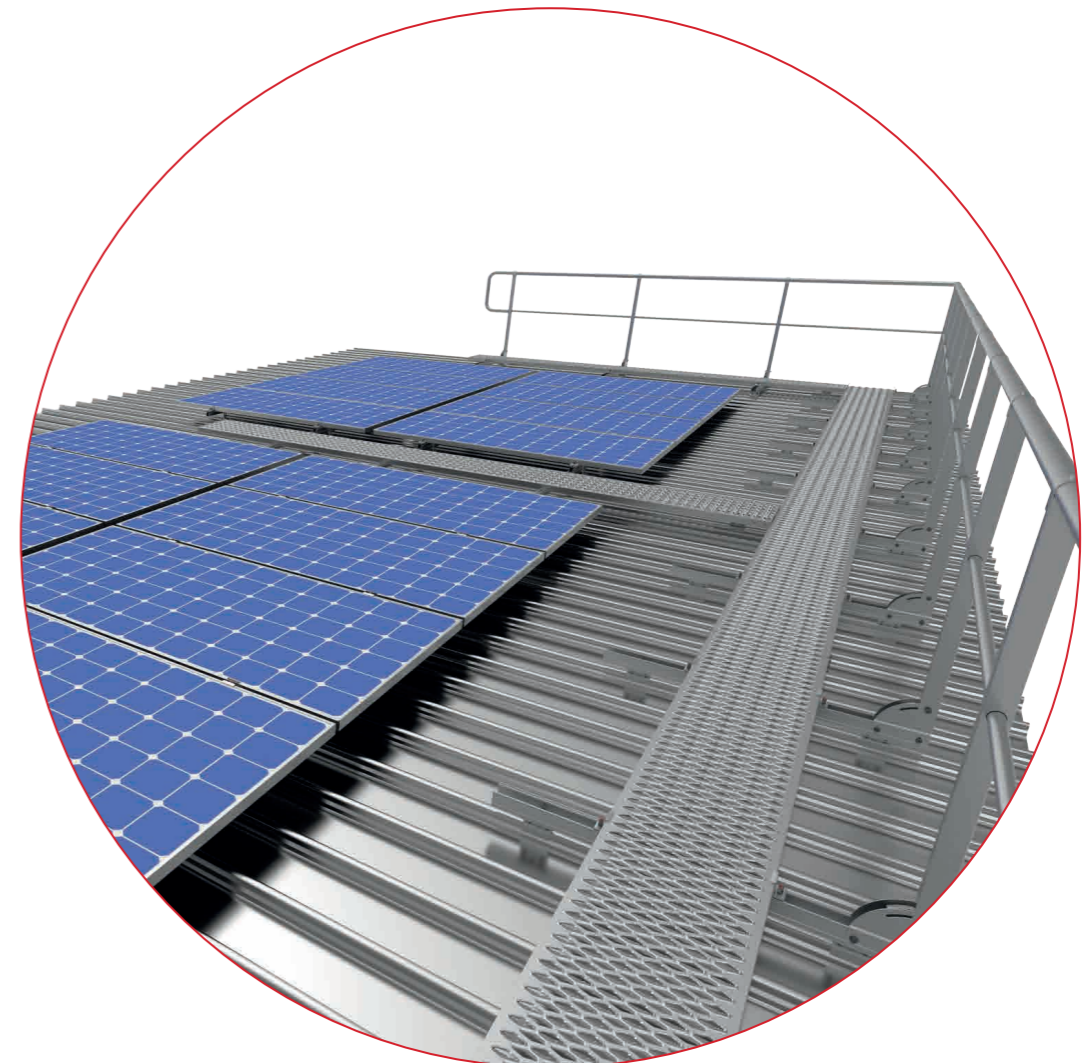


Our 2 ways locking system makes sure that your hand rail is firmly secured and will ensure your safety on your solar installation

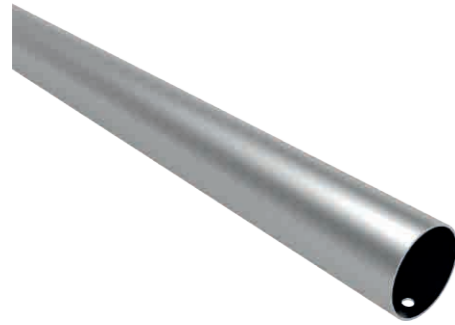
**RRACKS™** Edge Protection guardrails can be installed to fulfil a variety of different purposes, including mounting to metal roofing and concrete or steel platforms, and can be used on and around:

- Stairways
- Platforms
- Guttering
- Fire escapes
- Roof decking
- Access hatches

**RRACKS™** Edge Protection guardrails can also be installed in conjunction with our other products, including roof walkways and cable management systems. **RRACKS™** Edge Protection guardrails use modular fittings, fixtures and mounting options for easy upgrading of existing height safety systems.



WALKWAY



### Top Handrail

RRACKS™ Handrail for Edge Protection system tubular for better grip, anodized aluminium to ensure a weather-proof safety structure. Custom length available.

ITEM NO.	MATERIAL	SPEC	FINISH
355-0011A	AL 6005-T5	Ø50.8mm x 4m	Anodized
355-0013A	AL 6005-T5	Ø50.8mm x 2m	Anodized
355-0011T	AL 6005-T5	Ø50.5mm x 4m	Anodized
355-0013T	AL 6005-T5	Ø50.5mm x 2m	Anodized



### Tube Joiner

Used to safely join two pieces of top handrail or midrail together, creating a strong fixing for all handrails in your installation.

ITEM NO.	MATERIAL	SPEC	FINISH
355-0015	AL 6005-T5	Ø50.8mm	Anodized
355-0016	AL 6005-T5	Ø33.7mm	Anodized



### Handrail Elbow

Safely join two pieces of handrail coming at 90 degrees angles, perfect for bends and pitch-changes.

ITEM NO.	MATERIAL	SPEC	FINISH
355-0041A	AL 6005-T5	Ø50.8mm 90° fixed	Anodized
355-0042A	AL 6005-T5	Ø33.7mm 90° fixed	Anodized
355-0041T	AL 6005-T5	Ø50.5mm 90° fixed	Anodized
355-0042T	AL 6005-T5	Ø33.4mm 90° fixed	Anodized



### Adjustable Elbow

Safely join two pieces of handrail coming at different angles, perfect for bends and pitch-changes.

ITEM NO.	MATERIAL	SPEC	FINISH
355-0017	Stainless Steel	Ø50.8mm adjustable	Brushed
355-0018	Stainless Steel	Ø33.7mm adjustable	Brushed



### Edge Protection Post Assembly

Full assembly of the Edge Protection System. Can be adjusted between 0° and 35° from vertical and can be completely folded down for transportation and storage.

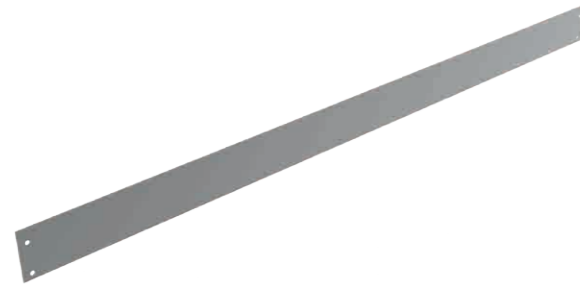
ITEM NO.	MATERIAL	SPEC	FINISH
355-0030	AL 6005-T5	0.9m base	Anodized
355-0036	AL 6005-T5	Parapet	Anodized
355-0038	AL 6005-T5	Parapet (without midrail)	Anodized
355-0039	AL 6005-T5	0.65m base	Anodized
355-0049	AL 6005-T5	1.2m base	Anodized



### Edge Protection Post Assembly with 2 midrails

Full assembly of the Edge Protection System. Can be adjusted between 0° and 35° from vertical and can be completely folded down for transportation and storage. Use an extra mid rail for international standard compliance on high angle roofs.

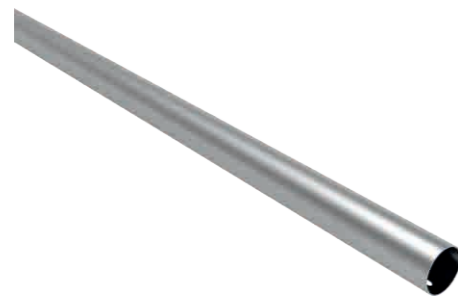
ITEM NO.	MATERIAL	SPEC	FINISH
355-0031	AL 6005-T5	0.9m base	Anodized
355-0037	AL 6005-T5	Parapet	Anodized
355-0040	AL 6005-T5	0.65m base	Anodized
355-0050	AL 6005-T5	1.2m base	Anodized
355-0056	AL 6005-T5	0.65m base with toe plate	Anodized



### Toe plate

RRACKS™ Toe plate for Edge Protection. To be attached at the base of the bracket and prevent tools and materials from sliding off the roof.

ITEM NO.	MATERIAL	SPEC	FINISH
355-0058	AL 6005-T5	100x3000mm	Anodized



### Mid Rail

RRACKS™ Mid Rail for edge protection design. Fits inside the Vertical Post. Choose 1 for angle <15° and 2 for angle >15°. Custom length available.

ITEM NO.	MATERIAL	SPEC	FINISH
355-0012A	AL 6005-T5	Ø33.7mmx4m	Anodized
355-0014A	AL 6005-T5	Ø33.7mmx2m	Anodized
355-0012T	AL 6005-T5	Ø33.4mmx4m	Anodized
355-0014T	AL 6005-T5	Ø33.4mmx2m	Anodized



### Base Rail End Clamp

Specially designed end clamp to attach RRACKS™ components such as the walkway to the Base Rail

ITEM NO.	MATERIAL	SPEC	FINISH
355-0028	AL 6005-T5	50x38x40mm	Anodized



### Rail D Tube End

Connected at the end of the top rails using a joiner and curls down to match the end of the mid rail.

ITEM NO.	MATERIAL	SPEC	FINISH
355-0027A	AL 6005-T5	Ø50.8mm	Anodized
355-0027T	AL 6005-T5	Ø50.5mm	Anodized

#### 12M BOM (1 MIDRAIL)

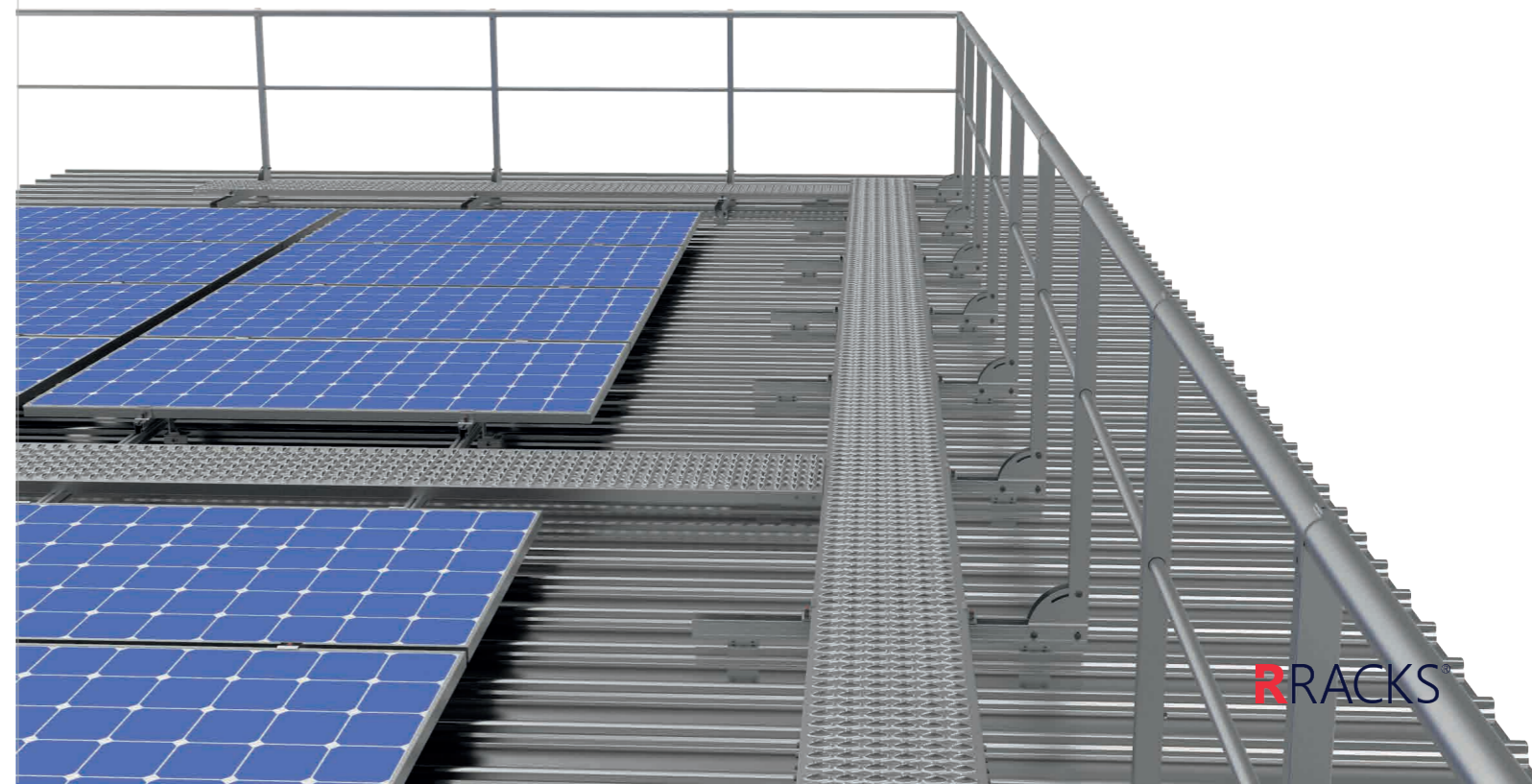
ITEM NO.	DESCRIPTION	QTY
355-0011	Top Rail, 4m	3
355-0030	Edge Protection Post Assembly	9
355-0027	Rail D Tube End	2
355-0012	Mid rail, 4m	3
355-0015	Tube Joiner Ø50.8mm	4
355-0016	Tube Joiner Ø33.7mm	4
355-0017	Adjustable Elbow Ø50.8mm	1
355-0018	Adjustable Elbow Ø33.7mm	1
355-0008	Walkway 600mm	3
355-0004	Walkway joiner	6
355-0028	Base Rail Nut	18

#### 12M BOM (2 MIDRAILS)

ITEM NO.	DESCRIPTION	QTY
355-0011	Top Rail, 4m	3
355-0050	Edge Protection Post Assembly	9
355-0027	Rail D Tube End	2
355-0012	Mid rail, 4m	6
355-0015	Tube Joiner Ø50.8mm	4
355-0016	Tube Joiner Ø33.7mm	8
355-0017	Adjustable Elbow Ø50.8mm	1
355-0018	Adjustable Elbow Ø33.7mm	2
355-0008	Walkway 600mm	3
355-0004	Walkway joiner	6
355-0028	Base Rail Nut	18

#### 12M BOM (WITHOUT FIXING)

ITEM NO.	DESCRIPTION	QTY
355-0011	Top Rail, 4m	3
355-0056	Edge Protection Post Assembly	9
355-0027	Rail D Tube End	2
355-0012	Mid rail, 4m	6
355-0015	Tube Joiner Ø50.8mm	4
355-0016	Tube Joiner Ø33.7mm	8
355-0017	Adjustable Elbow Ø50.8mm	1
355-0018	Adjustable Elbow Ø33.7mm	2
355-0008	Walkway 600mm	3
355-0004	Walkway joiner	6
355-0028	Base Rail Nut	18
355-0058	Toe Plate	4



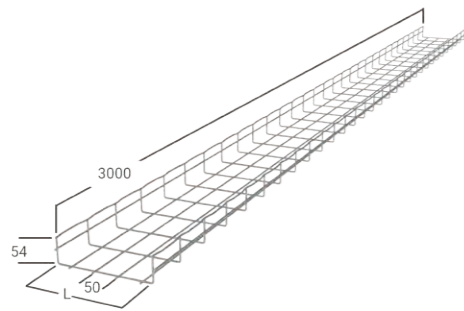
WALKWAY

# CABLE MANAGEMENT

The Wire Mesh Cable Tray is produced from ASTM A510 high-strength steel wire. The design of the cable tray is adaptable with all cabling requirements and is sized and finished to match industry standard with more loading capability.

The Wire Basket System provides the necessary cable support while allowing unmatched field installation adaptability.

For consultation and advice on the best cable management with PV solar system, please call us.



## Wire Mesh Cable Tray

Wire Mesh Cable Tray, used for cable management.  
Different depth available

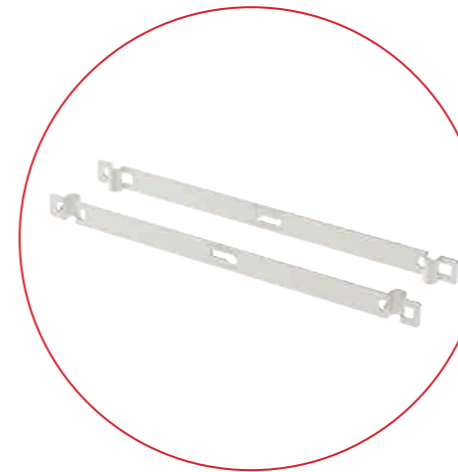
ITEM NO.	MATERIAL	SPEC
129-0001	ASTM A510	200x54x3000mm
129-0002	ASTM A510	300x54x3000mm
129-0003	ASTM A510	400x54x3000mm
129-0004	ASTM A510	600x54x3000mm
129-0014	ASTM A510	100x54x3000mm
126-0015	ASTM A510	500x54x3000mm
129-0018	ASTM A510	700x54x3000mm
129-0019	ASTM A510	750x54x3000mm
129-0020	ASTM A510	800x54x3000mm

## RZaM™ Cover

RZaM™ Steel peaked cable tray cover to evacuate water better and prevent rusting. RZaM™ Steel is much more rust resistant as standard galvanized steel.

ITEM NO.	SPEC
129-0006	200x54x3000mm
129-0007	300x54x3000mm
129-0008	400x54x3000mm
129-0009	600x54x1500mm
129-0016	100x54x3000mm
129-0017	500x54x1500mm
129-0021	700x54x1500mm
129-0022	750x54x1500mm
129-0023	800x54x1500mm

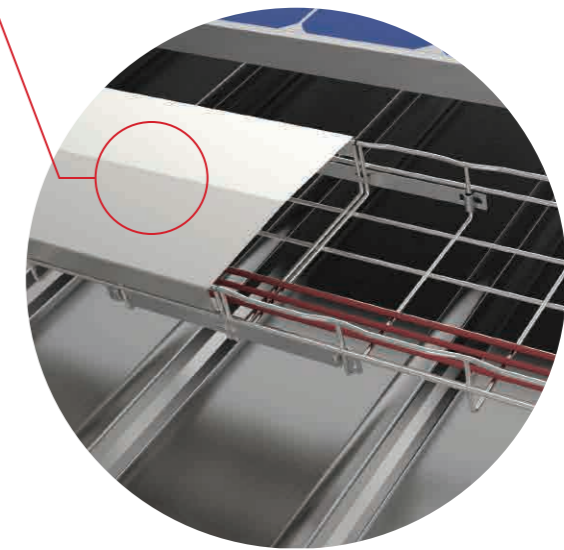
## Accessories



### Cable Tray Joiner

Used to connect two pieces of cable tray together.

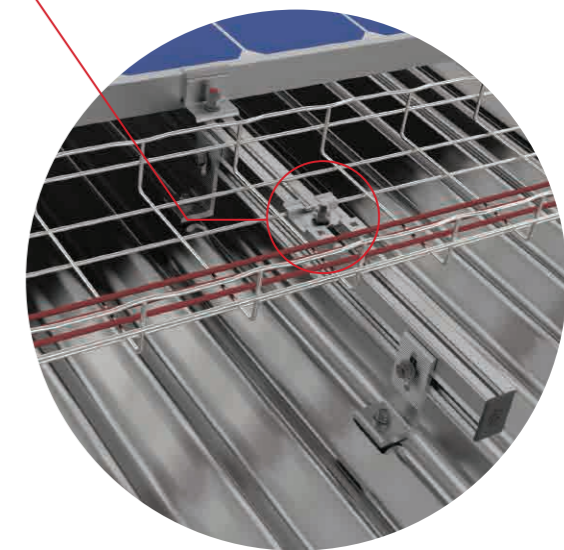
ITEM NO.
129-0009



### Rail to Tray Connector

Attaches the cable tray to the rail.

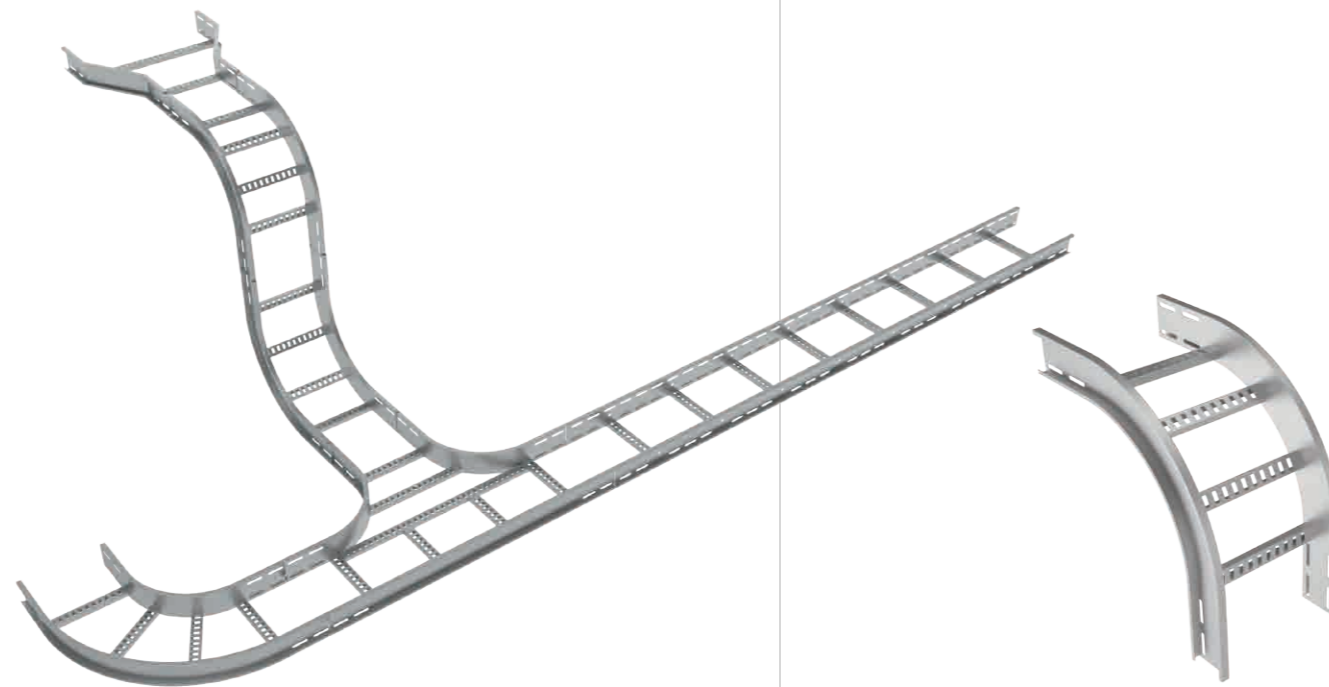
ITEM NO.
129-0010



# CABLE LADDER SYSTEM

The RRACKS™ Cable Ladder System is produced from Hot Dipped Galvanized Steel. This sturdy cable ladder system is adaptable to all your different cabling needs, is sized to meet all industry standards and is strong enough to withstand harsh weather conditions for many years.

For consultation and advice on the best cable ladder system for your PV solar system needs, please call us.



## Cable Ladder

Stronger than the wire mesh cable tray. This is used for managing cable in your solar installation.

ITEM NO.	MATERIAL	SPEC	FINISH
129-0001	Steel	200x100mm	Galvanised
129-0002	Steel	300x100mm	Galvanised
129-0003	Steel	600x100mm	Galvanised

## Cable Ladder 90° Horizontal

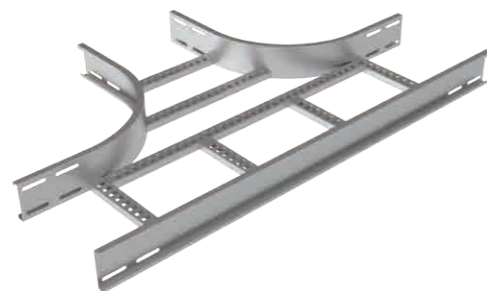
90° horizontal bend for your cable ladder system.

ITEM NO.	MATERIAL	SPEC	FINISH
129-0101	Steel	200x100mm	Galvanised
129-0102	Steel	300x100mm	Galvanised
129-0103	Steel	600x100mm	Galvanised

## Cable Ladder T Junction

T junction for your cable ladder system.

ITEM NO.	MATERIAL	SPEC	FINISH
129-0201	Steel	200x100mm	Galvanised
129-0202	Steel	300x100mm	Galvanised
129-0203	Steel	600x100mm	Galvanised



## Cable Ladder Internal Riser

Internal riser to go vertical in your cable ladder system.

ITEM NO.	MATERIAL	SPEC	FINISH
129-0301	Steel	200x100mm	Galvanised
129-0302	Steel	300x100mm	Galvanised
129-0303	Steel	600x100mm	Galvanised

## Cable Ladder External Riser

External riser to go vertical in your cable ladder system.

ITEM NO.	MATERIAL	SPEC	FINISH
129-0401	Steel	200x100mm	Galvanised
129-0402	Steel	300x100mm	Galvanised
129-0403	Steel	600x100mm	Galvanised

## Cable Ladder Reducer

Reducer to connect different width of cable ladder in your system.

ITEM NO.	MATERIAL	SPEC	FINISH
129-0501	Steel	200/100mm	Galvanised
129-0502	Steel	300/100mm	Galvanised
129-0503	Steel	600/100mm	Galvanised

## Connector

Used to connect every piece of cable ladder together.

ITEM NO.	MATERIAL	FINISH
129-0601	Steel	Galvanised



# CABLE TRAY SYSTEM

Produced from **RZaM™** Steel, your cable trays are built to keep your cables organised for years. **RZaM™** Steel is more rust-resistant than standard galvanized steel, giving you the confidence you need for all your PV Solar installations.



**RZaM™**

## RZaM™ Cable Tray

An enclosed version of the cable tray. Stronger than the wire mesh cable tray. Used to manage cables in your solar project.

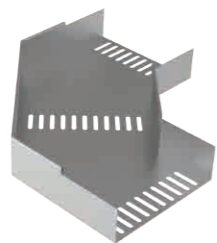
ITEM NO.	MATERIAL	SPEC	FINISH
129-1001	Steel	200x100mm	RZaM™
129-1002	Steel	300x100mm	RZaM™
129-1003	Steel	600x100mm	RZaM™



## RZaM™ Cable Tray 90° Horizontal

90° horizontal tray for your cable tray system.

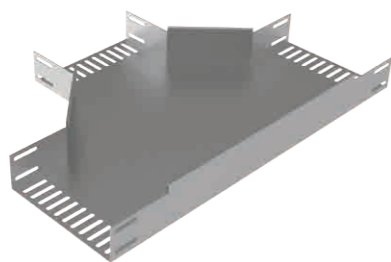
ITEM NO.	MATERIAL	SPEC	FINISH
129-1101	Steel	200x100mm	RZaM™
129-1102	Steel	300x100mm	RZaM™
129-1103	Steel	600x100mm	RZaM™



## Cable Tray T Junction

T junction for your cable tray system.

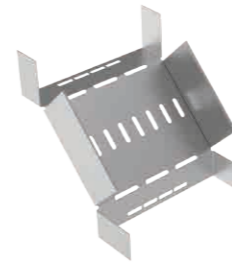
ITEM NO.	MATERIAL	SPEC	FINISH
129-1201	Steel	200x100mm	RZaM™
129-1202	Steel	300x100mm	RZaM™
129-1203	Steel	600x100mm	RZaM™



## Cable Tray Internal Riser

Internal riser to go vertical in your cable tray system.

ITEM NO.	MATERIAL	SPEC	FINISH
129-1301	Steel	200x100mm	RZaM™
129-1302	Steel	300x100mm	RZaM™
129-1303	Steel	600x100mm	RZaM™



## Cable Tray External Riser

External riser to go vertical in your cable tray system.

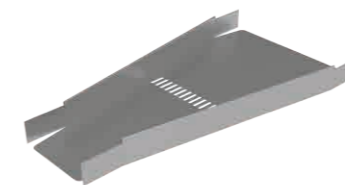
ITEM NO.	MATERIAL	SPEC	FINISH
129-1401	Steel	200x100mm	RZaM™
129-1402	Steel	300x100mm	RZaM™
129-1403	Steel	600x100mm	RZaM™



## Cable Tray Reducer

Reducer to connect different width of cable ladder in your system.

ITEM NO.	MATERIAL	SPEC	FINISH
129-1501	Steel	200/100mm	RZaM™
129-1502	Steel	300/100mm	RZaM™
129-1503	Steel	600/100mm	RZaM™



## Connector

Used to connect every piece of cable tray together.

ITEM NO.	MATERIAL	FINISH
129-0601	Steel	Galvanised

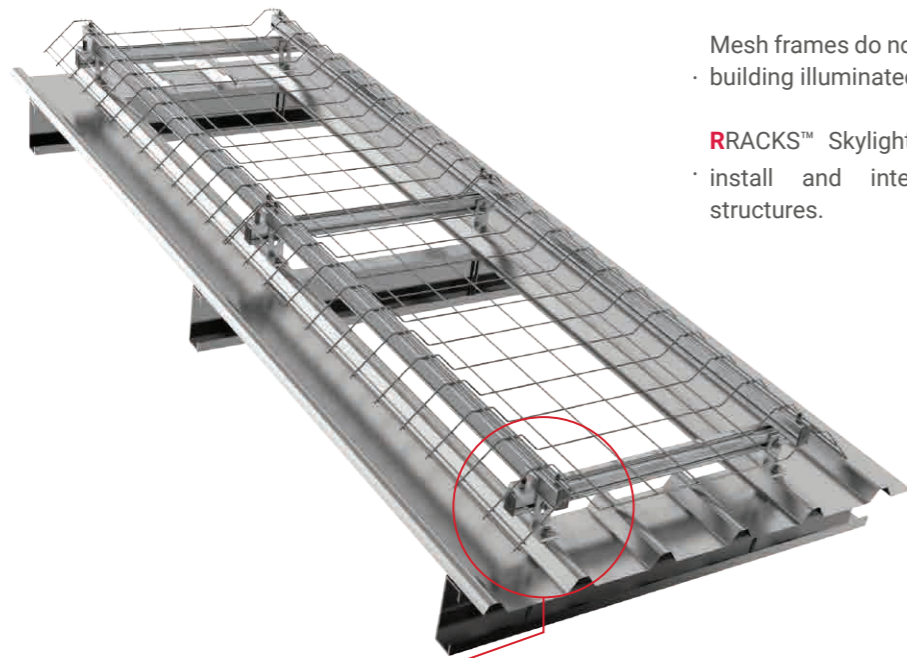


# SKYLIGHT PROTECTION

The **RRACKS™** Skylight Protection System is designed to help building owners ensure the all-round safety of their properties. Aside from providing protection for covering unprotected roof lights as well as fragile roof light covers, the **RRACKS™** Skylight Protection System also helps prevent any potential injuries from falls through skylights - all without blocking out the light.

## SKYLIGHT BENEFITS

- **RRACKS™** Skylight Protection will help improve safety for workers.
- Adaptable solution for covering skylights on all types of roofs such as Klip-Lok roofs and corrugated roofs.
- Easily transported and assembled while on the roof.
- All components are aluminium while mesh frames are stainless steel for enhanced durability.
- Mesh frames do not block out light, which keeps the building illuminated.
- **RRACKS™** Skylight Protection system is easy to install and integrate with other **RRACKS™** structures.



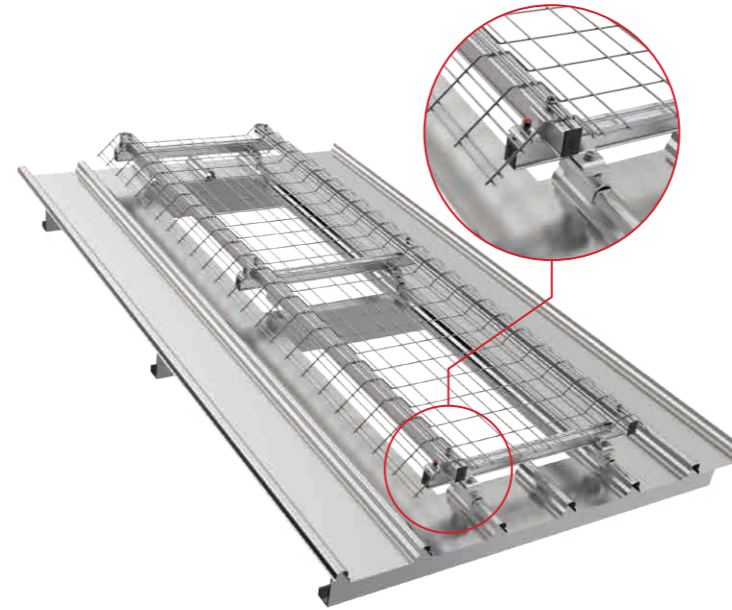
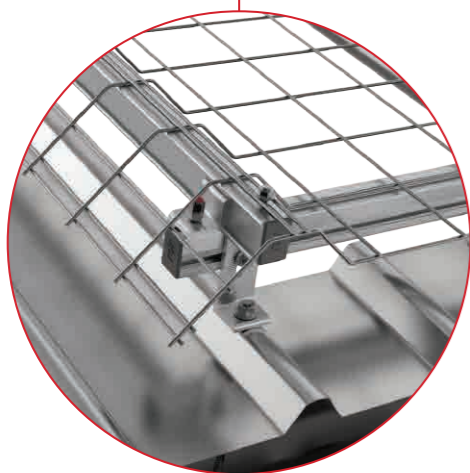
## Skylight Protection - Trapezoidal Roof

The **RRACKS™** Skylight Protection adapted with Hanger bolts.

ITEM NO.	MATERIAL	SPEC	FINISH
408-0003	Aluminium Stainless Steel	1.2m x 0.8m	Anodized

### BOM 2.4M

ITEM NO.	DESCRIPTION	QTY	MATERIAL
320-0002	Hanger bolt	6	Steel
300-0004	RDR rail; 700mm	3	Aluminium
300-0004	RDR rail; 2350mm	2	Aluminium
112-0001	End cap	10	Plastic
319-0007	T-head rail connector	14	Aluminium
318-0001	Cross rail bracket	6	Aluminium
357-0001	Wire mesh	2	Steel



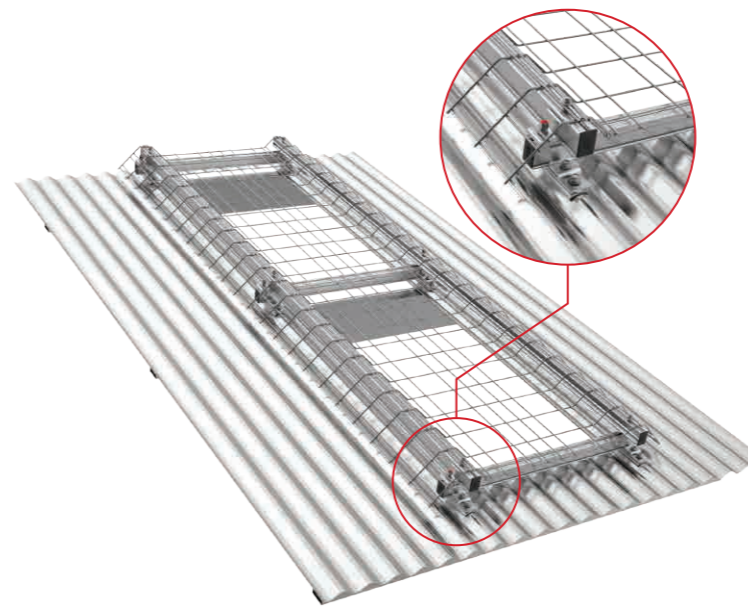
## Skylight Protection - Kliplok Roof

The **RRACKS™** Skylight Protection adapted with Kliplok roof brackets.

ITEM NO.	MATERIAL	SPEC	FINISH
408-0001	Aluminium Stainless Steel	1.2m x 0.8m	Anodized

### BOM 2.4M

ITEM NO.	DESCRIPTION	QTY	MATERIAL
314-0009	Kliplok 700 bracket	6	Aluminium
213-0001	Cross rail bracket	6	Aluminium
300-0004	RDR rail; 700mm	3	Aluminium
300-0004	RDR rail; 2350mm	2	Aluminium
112-0001	End cap	10	Plastic
318-0001	Cross rail bracket assembly	6	Aluminium
357-0001	Wire mesh	1	Steel



## Skylight Protection - Corrugated Roof

The **RRACKS™** Skylight Protection adapted with corrugated roofing shoes.

ITEM NO.	MATERIAL	SPEC	FINISH
408-0002	Aluminium Stainless Steel	1.2m x 0.8m	Anodized

### BOM 2.4M

ITEM NO.	DESCRIPTION	QTY	MATERIAL
321-0004	Corrugated bracket	6	Aluminium
100-0003	Roofing screw	6	Steel
300-0004	RDR rail; 700mm	3	Aluminium
300-0004	RDR rail; 2350mm	2	Aluminium
213-0001	Cross bracket piece	6	Aluminium
112-0001	End cap	10	Plastic
318-0001	Cross rail bracket	6	Aluminium
357-0001	Wire mesh	1	Steel

# CARPORTS



**RRACKS™** is committed to continue leading the way in the latest developments in the Solar Racking industry. With the ever-evolving EV market, **RRACKS™** provides an exciting range of innovative commercial and residential solar carports, one of the new emerging opportunities in the world of solar.

The **RRACKS™** EV Carport is produced with our 6000 series aluminium for panel attachment. The framing is made from 80µm hot dipped galvanized steel to ensure a long lasting structure.



## Ultra Wide Single Pitch Solar Carport

**RRACKS™** carport for 8 cars, 90 panels for maximum efficiency  
Clearance is 2.5m at the lowest

**REF NO.** 409-0001  
**SPEC** 18.4m x 9m- 10° pitch

ITEM NO.	DESCRIPTION	QTY	MATERIAL
347-0002	pole; 3286mm	3	Galvanized Steel
348-0002	truss; 9342mm	3	Galvanized Steel
349-0002	Truss & pole connector 1	3	Galvanized Steel
349-0003	Truss & pole connector 2	3	Galvanized Steel
334-0002	Rail clamp	60	Aluminium
308-0031	Rail; 18400mm	10	Aluminium
301-0002	Mid clamp	170	Aluminium
302-0001	End clamp	20	Aluminium



## Single Pitch Solar Carport

**RRACKS™** carport for 4 cars, 54 panels for compacity  
Clearance is 3m at the lowest.

**REF NO.** 409-0002  
**SPEC** 18.4m x 5m- 10° pitch

ITEM NO.	DESCRIPTION	QTY	MATERIAL
347-0001	Pole; 2563mm	3	Galvanized Steel
348-0001	Truss; 5537mm	3	Galvanized Steel
392-0002	Truss & pole connector	3	Galvanized Steel
308-0031	Rail; 18400mm	6	Aluminium
334-0002	Rail clamp	36	Aluminium
301-0002	Mid clamp	102	Aluminium
302-0001	End clamp	12	Aluminium



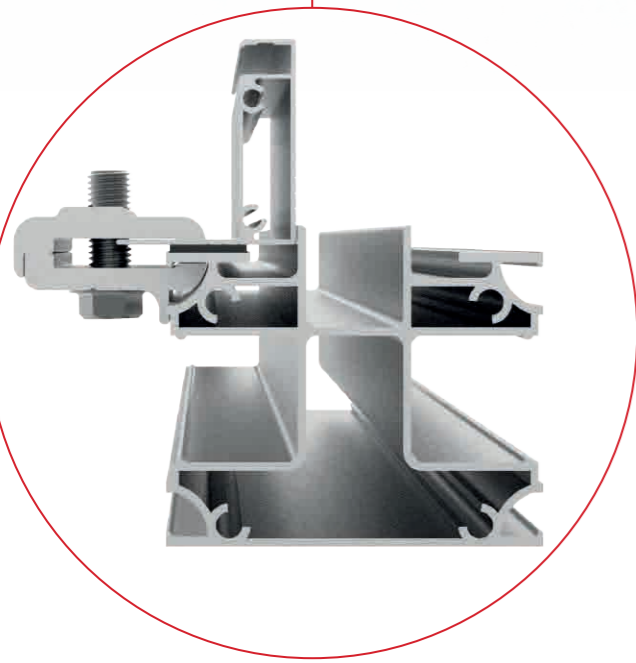
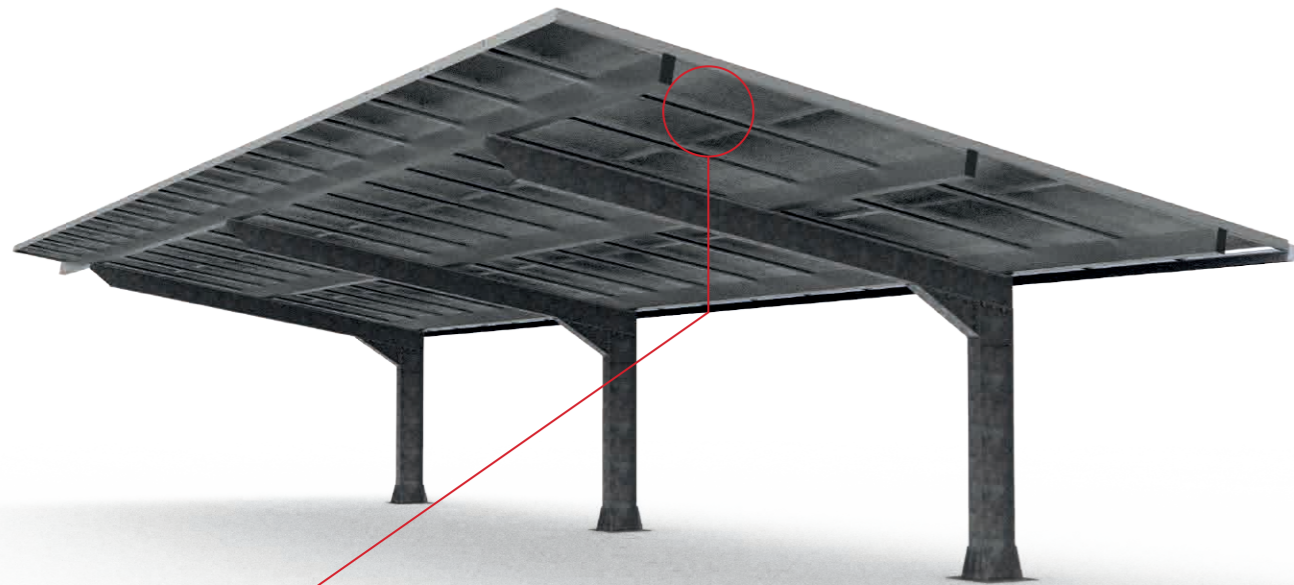
## Ultra Wide Double Pitch Solar Carport

**RRACKS™** carport for 8 cars, 108 panels for maximum efficiency, double pitch to allow for bigger cars.  
Clearance is 3m at the lowest.

**REF NO.** 409-0003  
**SPEC** 18.4m x 10m- 10° pitch

ITEM NO.	DESCRIPTION	QTY	MATERIAL
347-0001	Pole; 2563mm	6	Galvanized Steel
348-0001	Truss; 5537mm	6	Galvanized Steel
392-0002	Truss & pole connector	6	Galvanized Steel
308-0031	Clamped rail; 18400mm	12	Aluminium
334-0002	Rail clamp	72	Aluminium
301-0002	Mid clamp	204	Aluminium
302-0001	End clamp	24	Aluminium

# WATERPROOF CARPORTS



To adapt to an ever-evolving solar mounting market, **RRACKS™** has developed a fully waterproof carport system, using classic solar panels to reduce mounting time and additional waterproofing costs.

The clamps are located under the panels to reduce the risk of working at height during installation.

The design uses specially designed rails to act as gutters for the array. Cable covers ensure proper cable management and make for a cleaner looking installation.

The **RRACKS™** waterproof EV Carport is produced with our 6000 series aluminium for panel attachment. The framing is made from 80µm hot dipped galvanized steel to ensure a long lasting structure.

## Ultra Wide Single Pitch Waterproof Solar Carport

**RRACKS™** waterproof carport for 8 cars, 90 panels for maximum efficiency. Clearance is 2.5m at the lowest.



**REF NO.** 409-0006  
**SPEC** 18.4m x 9m- 10° pitch

ITEM NO.	DESCRIPTION	QTY	MATERIAL
347-0002	pole; 3286mm	3	Galvanized Steel
348-0002	truss; 9342mm	3	Galvanized Steel
349-0002	Truss & pole connector 1	3	Galvanized Steel
349-0003	Truss & pole connector 2	3	Galvanized Steel
308-0031	Clamped rail; 18400mm	6	Aluminium
334-0002	Rail clamp	252	Aluminium
364-0001	Gutter rail	36	Aluminium
365-0001	Panel clamp	420	Aluminium
368-0001	G clip	68	Aluminium

## Single Pitch Waterproof Solar Carport

**RRACKS™** waterproof carport for 4 cars, 54 panels for compactly. Clearance is 3m at the lowest.



**REF NO.** 409-0005  
**SPEC** 18.4m x 5m- 10° pitch

ITEM NO.	DESCRIPTION	QTY	MATERIAL
347-0001	Pole; 2563mm	3	Galvanized Steel
348-0001	Truss; 5537mm	3	Galvanized Steel
392-0002	Truss & pole connector	3	Galvanized Steel
308-0031	Clamped rail; 18400mm	3	Aluminium
334-0002	Rail clamp	126	Aluminium
364-0001	Gutter rail	18	Aluminium
365-0001	Panel clamp	210	Aluminium
368-0001	G clip	34	Aluminium

## Ultra Wide Double Pitch Waterproof Solar Carport

**RRACKS™** carport for 8 cars, 108 panels for maximum efficiency, double pitch to allow for bigger cars. Clearance is 3m at the lowest.



**REF NO.** 409-0004  
**SPEC** 18.4m x 10m- 10° pitch

ITEM NO.	DESCRIPTION	QTY	MATERIAL
347-0001	Pole; 2563mm	3	Galvanized Steel
348-0001	Truss; 5537mm	6	Galvanized Steel
392-0002	Truss & pole connector	6	Galvanized Steel
308-0031	Clamped rail; 18400mm	6	Aluminium
334-0002	Rail clamp	252	Aluminium
364-0001	Gutter rail	36	Aluminium
365-0001	Panel clamp	420	Aluminium
368-0001	G clip	68	Aluminium

# WATERPROOF ROOF SYSTEMS

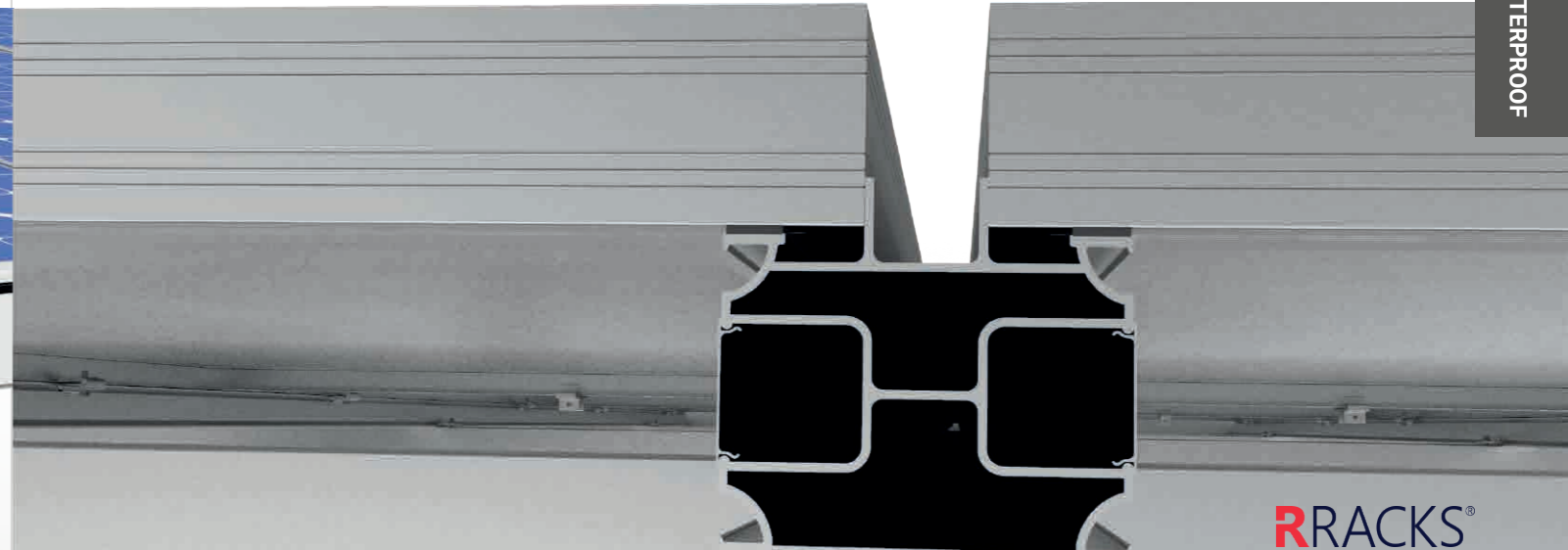


To accelerate the adoption of solar panel and its integration in commercial building, we have developed two new systems that allows you to install standard solar panels, on your commercial building, without the need for a roof.

With the **RRACKS™** watertight and waterproof panel mounting systems, you won't have to worry about clamping your panels to your roof anymore, the panels will be part of your building.

With easy installation of access path, you can make sure that your project will be easy to maintain throughout its design life.

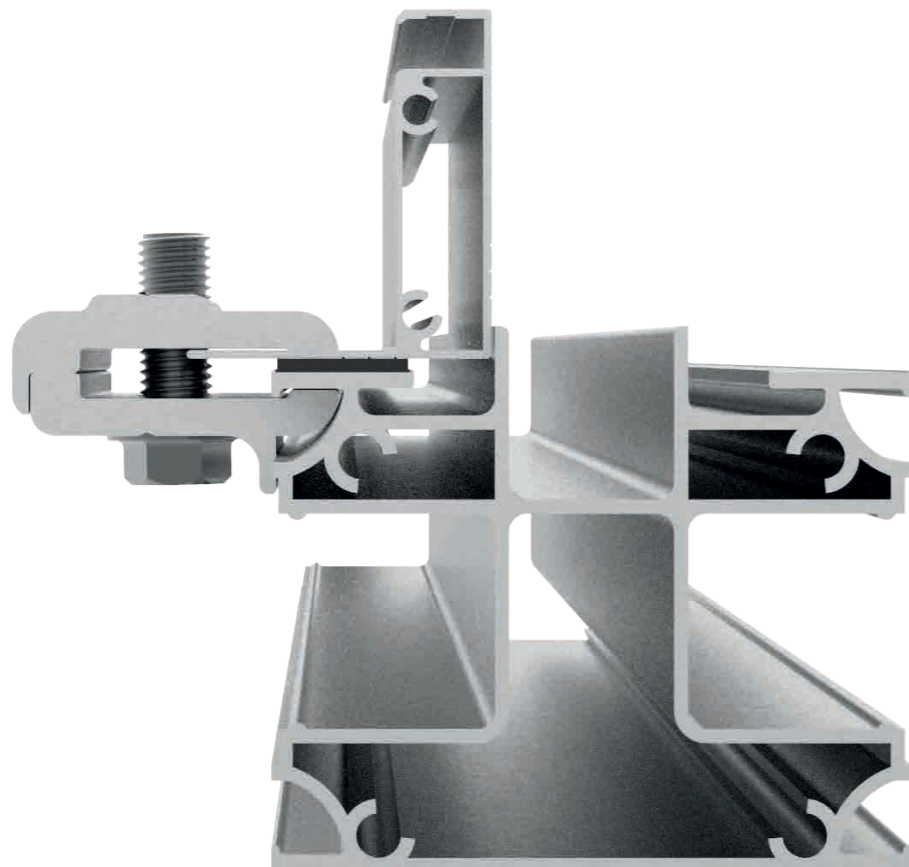
**“Watertight for easy installation,  
waterproof for all your warehousing  
needs”**



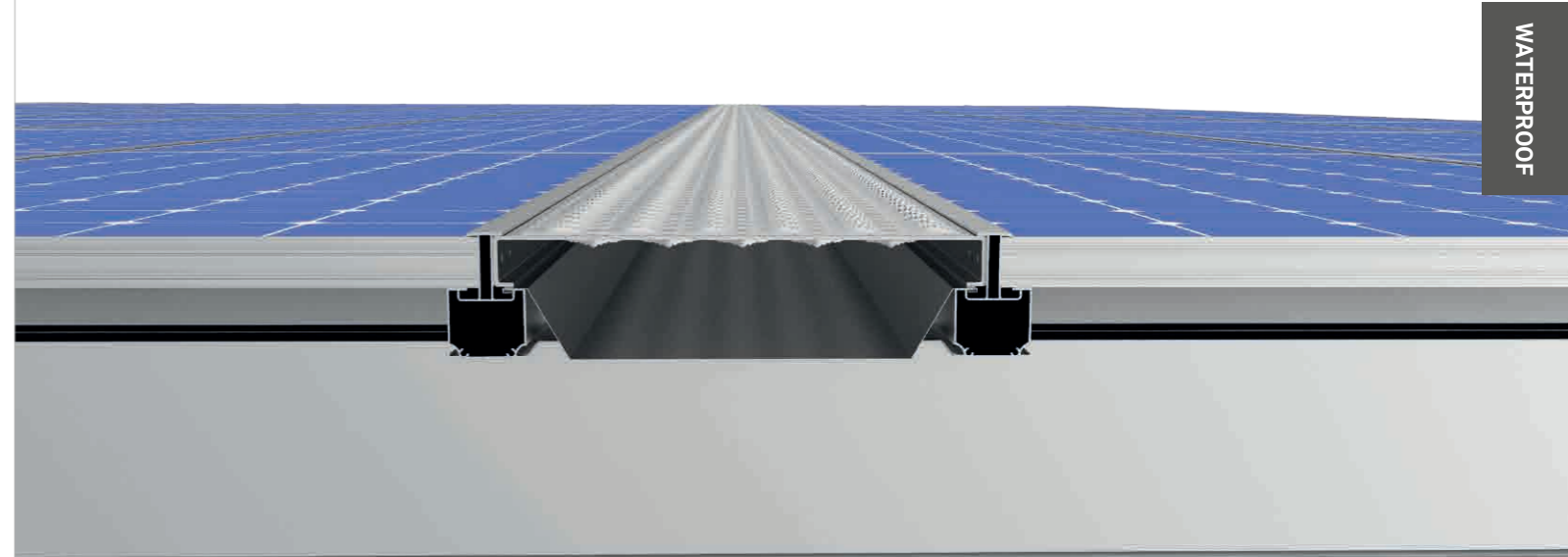
# “Use standard solar panels without the need for a roof”

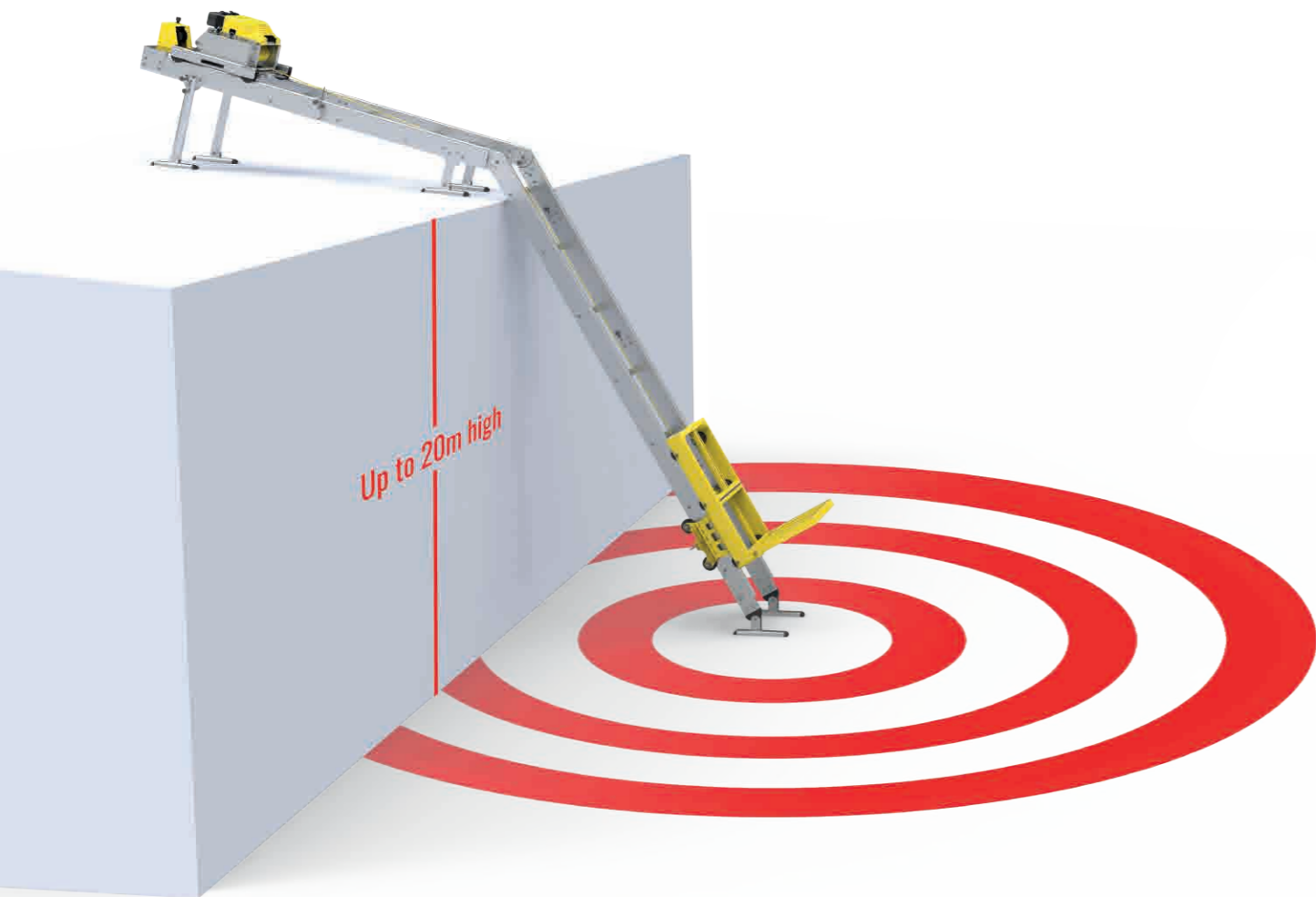
The waterproof version consists of clamps that are installed on the underside of the panels as well as clamps between the panels to make sure that no water can get in between the panels and ensure a fully waterproof installation. It is the same system that we have developed for our waterproof carports.

The waterproof rail consists of water evacuation chanel, EPDM strips that are compressed with the clamps and also have cable channels to allow you to neatly hide your cables and put an additional clip to fully hide your cable management for cleaner installations



The watertight roof is designed for extremely fast installation, you just need to slide your panels in the rail and add a thin sheet of EPDM Foam between the panels. This mean that you can use it for watertight sheds and save a lot of time on installation. You can also install the RRACKS Aluminium walkway in between the panels to allow for easy access and maintenance





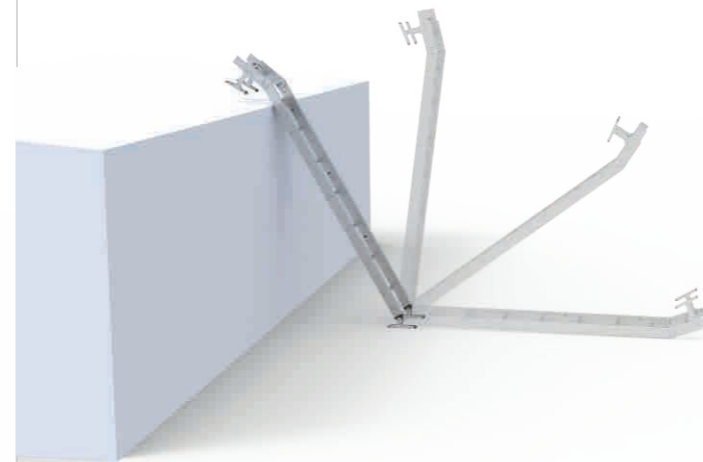
The new and updated MightyLifter 2.0 model, with twice the weight rating and reaching up to 9m from the box. You can now lift material in an even safer and faster way.

We've retained all its existing strengths and made it even better. The MightyLifter is still super easy to set up, modular, can still fit in the back of a pickup and can adapt itself to uneven terrain. But we've also added a cordless drill operation, fully battery-powered DC winch, 1.8m extension to reach roofs up to 20m high and made it strong enough to carry 250kg in one lift.

Reduce accident risk, save time, energy and money all at the same time with MightyLifter, the safest way to lift!

# “Up to 250kg in one lift”

# “The Safest Way To Lift”



A couple of simple steps allow you to set up the ladder on the ground in a few minutes. With little to no tools.

Simply pull the ladder up to the roof before adding the top section and you are ready to lift.



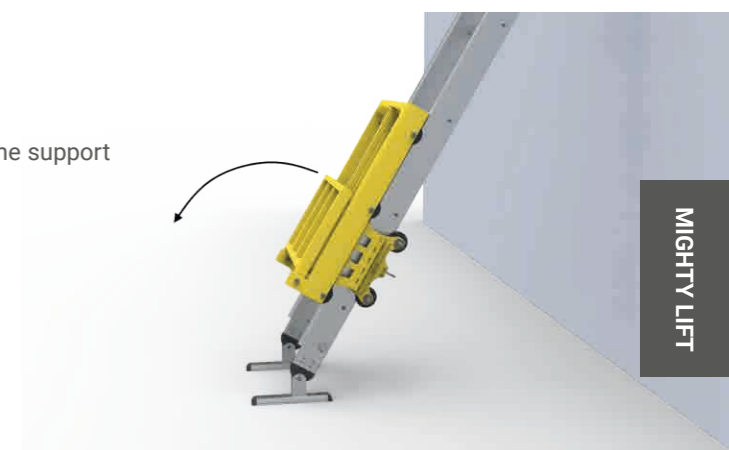
With 3 winch options, you can choose the one most suited to your needs.

With the manual winch that can fit a cordless drill, you can get started in seconds.

You can also choose the 2kW AC electric winch for large jobs with access to an electric plug or choose the 1.5kW battery-powered winch for off-grid or independent installations.



Put the trolley on the rails, fold down the support and start lifting right away



MIGHTY LIFTER



**LIGHT**

The MightyLifter is made of aluminium. It is lightweight and easy to use. All parts are under 25kg and its longest piece is 0.9m long for standard units and 1.8m for commercial units. It can be easily carted on a trailer or racked up inside a pickup truck or a large 4WD car.

**EASY**

Designed with ease of use in mind, all the modules are easy to set up and secure together with a 1/2 inch socket adapter. A wide range of additional parts allow you to adapt the MightyLifter to the needs of your job.

**MightyLifter Standard Edition**

Has smaller extensions to easily fit in a compact pickup truck. Ranging from 2.7m up to 5.4m out of the box. Add more extensions to reach higher places.

ITEM NO.	SPEC	MATERIAL
ML-14-001	2.7m	Anodized + safety yellow
ML-14-002	3.6m	Anodized + safety yellow
ML-14-003	4.5m	Anodized + safety yellow
ML-14-004	5.4m	Anodized + safety yellow



**STRONG**

Engineered to Australian Standards (standard no. AS1418.1SAA), it has a maximum capacity rating of 250kg.

**SAFE**

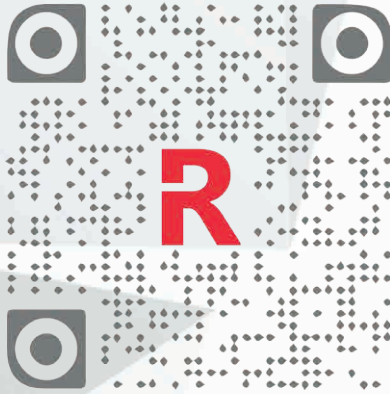
With new health and safety regulations to consider, the MightyLifter can help protect yourself and your team. Doing so ensures that none of your employees are at risk or off work due to injury, while also protecting your company from being liable for any negligence.

**MightyLifter Commercial Edition**

Has longer extensions to reach higher places. Ranging from 4.5m up to 9.9m out of the box. You can add more extensions to reach up to 25m.

ITEM NO.	SPEC	MATERIAL
ML-14-005	4.5m	Anodized + safety yellow
ML-14-006	6.3m	Anodized + safety yellow
ML-14-007	8.1m	Anodized + safety yellow
ML-14-008	9.9m	Anodized + safety yellow

MIGHTY LIFT



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