



COMPANY PROFILE >>>

SOLARPV4U is a family orientated supply business located at the top of the South Island, New Zealand. We directly import our products, there are no middle men.

We are dedicated to supplying top quality products and offer an excellent after sales service. Our products are made for a 25 year service life and include a 10 year warranty.

We can also provide a customised solution for your solar pv system, simply contact us discuss your needs.

Our main range of products include:

- Adjustable Flat Roof Mounting Systems
- Ground Mounting Systems
- Pole Mounting Systems
- Pitched Roof Mounting Systems
- Triangle Tilt Mounting Systems
- Individual Mounting Components
- Cables & Connectors for Solar PV Systems.

All our products have been produced to pass stringent international standards (including NZ 1170) and have one or more of the following certificates of compliance: CE, ROHS, IEC, TUV, UL, MCS, VDE.

CONTENTS

Products



03/06

Standard Component



07/08

Pitched Tile Roof



11/12

Pitched Tin Roof



15/16

Adjustable Mount



17/18

Triangle Mount



19/20

Adjustable Triangle Mount



Standard Mounting Components

Rail Series 1

(Black Anodized Available)

Available on our website - solarpv4u.co.nz



ITEM NO.	MATERIAL	SPEC.	WEIGHT	SURFACE
R1-2560	Al 6005 -T5	2560mm	2.20 KG	Clean Anodized
R1-3405	Al 6005 -T5	3405mm	2.90 KG	Clean Anodized
R1-4200	Al 6005 -T5	4200mm	3.57 KG	Clean Anodized
R1	Al 6005 -T5	Customized	-	Clean Anodized

Rail Series 2

(Black Anodized Available)

Not stocked - but can supply on request



ITEM NO.	MATERIAL	SPEC.	WEIGHT	SURFACE
R2-2560	Al 6005 -T5	2560mm	2.77 KG	Clean Anodized
R2-3405	Al 6005 -T5	3405mm	3.68 KG	Clean Anodized
R2-4200	Al 6005 -T5	4200mm	4.54 KG	Clean Anodized
R2	Al 6005 -T5	Customized	-	Clean Anodized

Rail Series 3

(Black Anodized Available)

Not stocked - but can supply on request



ITEM NO.	MATERIAL	SPEC.	WEIGHT	SURFACE
R3-2560	Al 6005 -T5	2560mm	2.82 KG	Clean Anodized
R3-3405	Al 6005 -T5	3405mm	3.75 KG	Clean Anodized
R3-4200	Al 6005 -T5	4200mm	4.62 KG	Clean Anodized
R3	Al 6005 -T5	Customized	-	Clean Anodized

Rail Splice

(Black Anodized Available)

Available on our website - solarpv4u.co.nz



ITEM NO.	MATERIAL	SPEC.	WEIGHT	SURFACE
R-SP	Al 6005 -T5	200mm	105 g	Clean Anodized

Standard Mounting Components

Mid Clamp 1

(Black Anodized Available)

Available on our website - solarpv4u.co.nz



ITEM NO.	MATERIAL	SPEC.	WEIGHT	SURFACE
IC-35	Al 6005 -T5	35mm	63.0 g	Clean
IC-40/42	Al 6005 -T5	40/42mm	64.5 g	Clean
IC-45/46	Al 6005 -T5	45/46mm	66.0 g	Clean
IC-50	Al 6005 -T5	50mm	68.0 g	Clean

End Clamp 1

(Black Anodized Available)

Available on our website - solarpv4u.co.nz



ITEM NO.	MATERIAL	SPEC.	WEIGHT	SURFACE
EC-35	Al 6005 -T5	35mm	50.0 g	Clean
EC-40	Al 6005 -T5	40mm	52.5 g	Clean
EC-42	Al 6005 -T5	42mm	53.1 g	Clean
EC-45	Al 6005 -T5	45mm	54.0 g	Clean
EC-46	Al 6005 -T5	46mm	54.6 g	Clean
EC-50	Al 6005 -T5	50mm	57.1 g	Clean

Mid Clamp 2

(Black Anodized Available)

Not stocked - but can supply on request



ITEM NO.	MATERIAL	SPEC.	WEIGHT	SURFACE
IC-(C) 35	Al 6005 -T5	35mm	63.0 g	Clean
IC-(C) 40	Al 6005 -T5	40mm	64.5 g	Clean
IC-(C) 45	Al 6005 -T5	45mm	66.0 g	Clean
IC-(C) 50	Al 6005 -T5	50mm	68.0 g	Clean

End Clamp 2

(Black Anodized Available)

Not stocked - but can supply on request



ITEM NO.	MATERIAL	SPEC.	WEIGHT	SURFACE
EC-(C) 35	Al 6005 -T5	35mm	50.0 g	Clean
EC-(C) 40	Al 6005 -T5	40mm	52.5 g	Clean
EC-(C) 45	Al 6005 -T5	45mm	54.6 g	Clean
EC-(C) 50	Al 6005 -T5	50mm	57.1 g	Clean



Standard Mounting Components

End Clamp 3(Adjustable)

(Black Anodized Available)

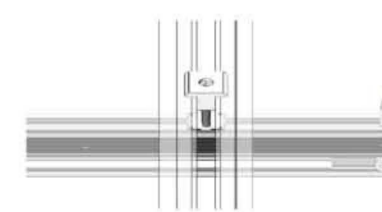
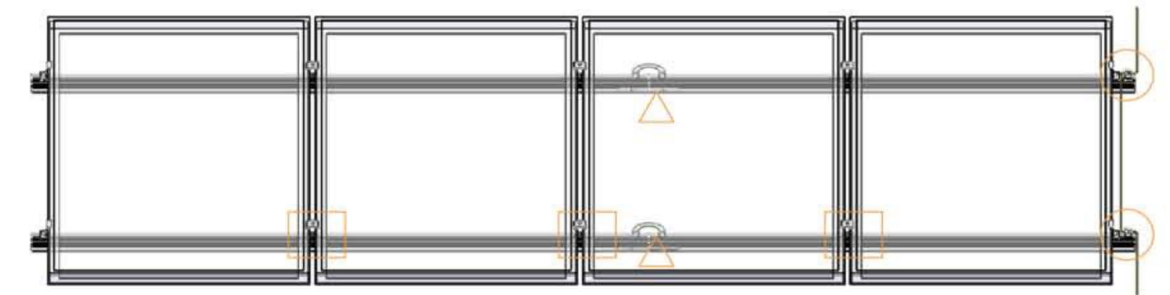


Available on our website - solarpv4u.co.nz

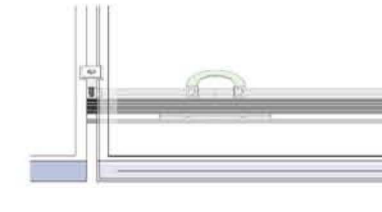
ITEM NO.	MATERIAL	SPEC.	WEIGHT	SURFACE
AE	Al 6005 -T5	35 ~ 50mm	50.0 g	Clean

Grounding System / Earthing Components

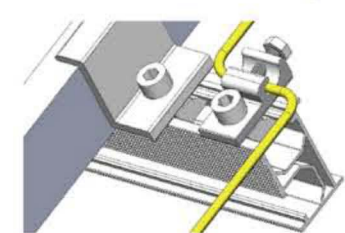
Layout Instruction



□ Grounding Washer



△ Bonding Jumper



○ Grounding Lug

1. Material - stainless steel 304.
2. Uses specialised teeth to embed to anodized aluminium or galvanized steel to establish a gas tight electrical connection.
3. The bonding jumper creates an electrical connection between two pieces of anodized aluminium or galvanized steel.

Component



GW



GL



BJ

ITEM NO.	DESCRIPTION	MATERIAL	WEIGHT	SURFACE
GW	Grounding Washer	SUS304	5 g	Clean
GL	Grounding Lug	Al6005-T5 · SUS 304	45 g	Clean
BJ	Bonding Jumper	Copper, Steel	80 g	Clean

Available on our website - solarpv4u.co.nz

SOLARPV4U

Your Solar Mounting Specialists



PITCHED TILE ROOF

Our Pitched Roof Designs offer great flexibility for both commercial and residential roof solar systems, suitable for installing framed modules flushed to the pitched roof. Special extruded aluminium rails, pre-assembled components and a variety of roof hooks or brackets with tilt-in modules ensure a quick and easy installation.



Pitched Tile Roof

Technical Info

- Installation Site: Pitched Tile Roof;
- Roof Slope: Up to 60 degree;
- Max. Building Height: up to 65ft(22m), customized;
- Max. Wind Speed: 60m/s
- Snow Load: 1.4KN/M2;
- Material: Aluminum 6005-T5 & Stainless Steel 304
- Warranty: 10 years and 25 years service life.



PITCHED TILE ROOF

Components



DESCRIPTION:

TileRook Hook, Stainless Steel SUS304

FUNCTION:

Fix the rail to the rafter



DESCRIPTION:

End Clamp, A16005-T5 & Stainless Steel A2-70

FUNCTION:

Fix solar panel at the end



DESCRIPTION:

Rail, Extruded Aluminum Profile, A16005-T5 2560mm, 3405 and 4200mm are the standard size



DESCRIPTION:

Mid clamp, A16005-T5 & Stainless Steel A2-70

FUNCTION:

Clamps solar panel on the Rail



DESCRIPTION:

Rail Splice, A16005-T5 & Stainless Steel A2-70

FUNCTION:

Extends the rail to the required length

FUNCTION:

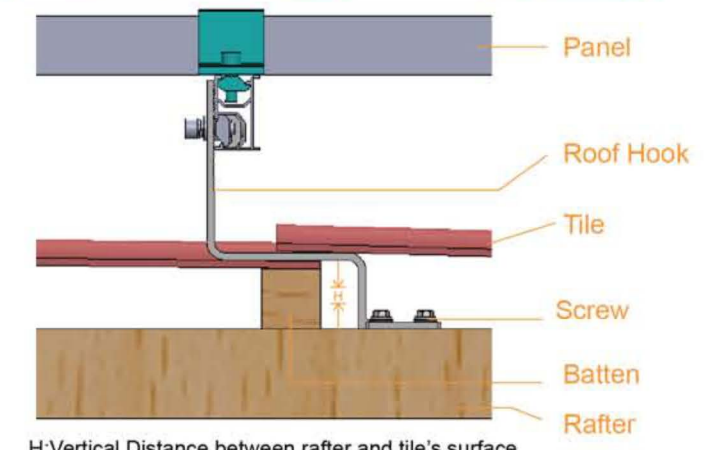
The Rails support the solar panel

Fixing To Roof



How to choose the correct Roof Hook Take into account the following factors:

1. Tile Type
2. Vertical Distance between wooden beam and tile's surface
3. Does the roof hook height need to be adjustable.
4. Common connection or quick installation



H: Vertical Distance between rafter and tile's surface

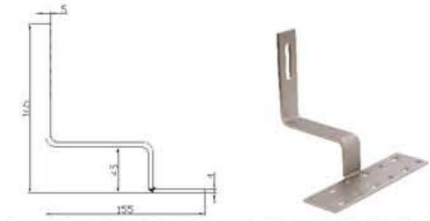
SOLARPV4U

Your Solar Mounting Specialists



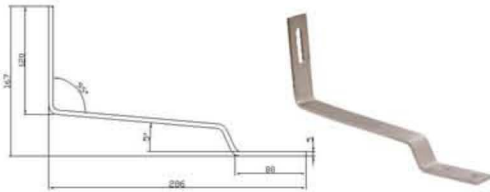
PITCHED TILE ROOF

Roof Hooks



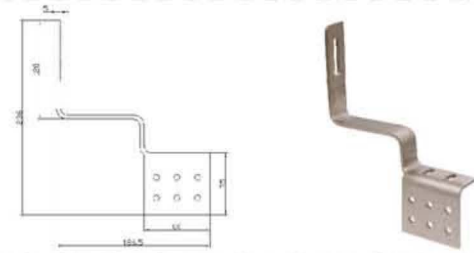
Available on our website - solarpv4u.co.nz

ITEM NO.	MATERIAL	SPEC.	WEIGHT	SURFACE
IK-01	SUS304	Plate: 180*50	566.5 g	Sandblasted
Fix Rail To Roman Tile Roof (20pcs/carton)				



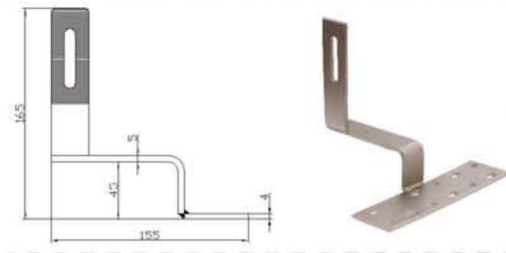
Available on our website - solarpv4u.co.nz

ITEM NO.	MATERIAL	SPEC.	WEIGHT	SURFACE
IK-02	SUS304	---	501.5 g	Sandblasted
Fix Rail To Flat Tile Roof (40PCS/carton)				



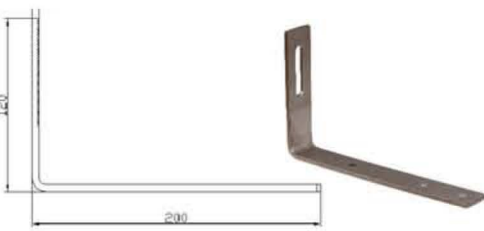
Not stocked - but can supply on request

ITEM NO.	MATERIAL	SPEC.	WEIGHT	SURFACE
IK-03	SUS304	---	674.9 g	Sandblasted
Fix Rail To Roman Tile Roof (20PCS/carton)				



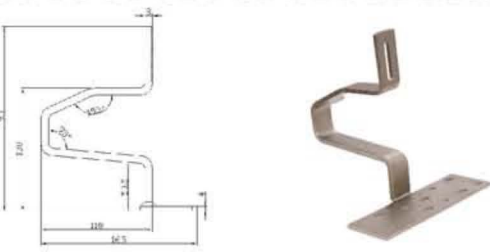
Available on our website - solarpv4u.co.nz

ITEM NO.	MATERIAL	SPEC.	WEIGHT	SURFACE
IK-04	SUS304	Plate: 180*50	562g	Sandblasted
Fix Rail To Roman Tile Roof (15PCS/carton)				



Not stocked - but can supply on request

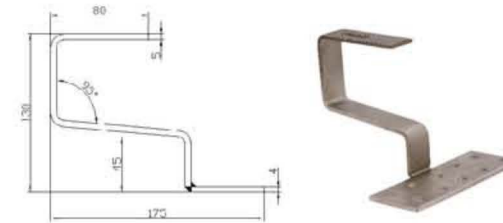
ITEM NO.	MATERIAL	SPEC.	WEIGHT	SURFACE
IK-05	SUS304	---	389.5 g	Sandblasted
Fix Rail To Asphalt Roof (50PCS/carton)				



Not stocked - but can supply on request

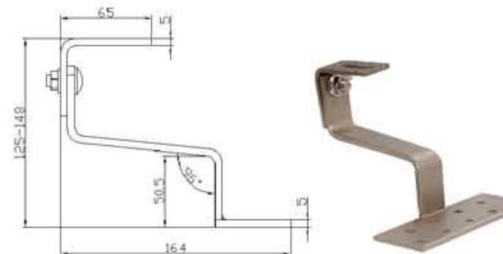
ITEM NO.	MATERIAL	SPEC.	WEIGHT	SURFACE
IK-06	SUS304	Plate: 180*50	929.4 g	Sandblasted
Fix Rail To Roman Tile Roof For Heavy Snow Load(6pcs/carton)				

PITCHED TILE ROOF



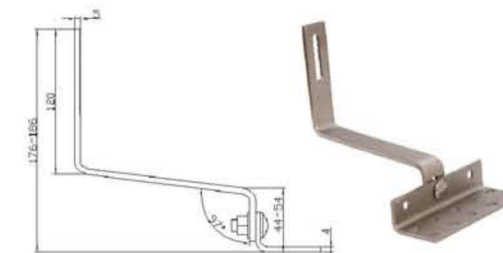
Not stocked - but can supply on request

ITEM NO.	MATERIAL	SPEC.	WEIGHT	SURFACE
IK-07	SUS304	Plate: 150*60	666.7 g	Sandblasted
Fix Rail To Roman Tile Roof (6pcs/carton)				



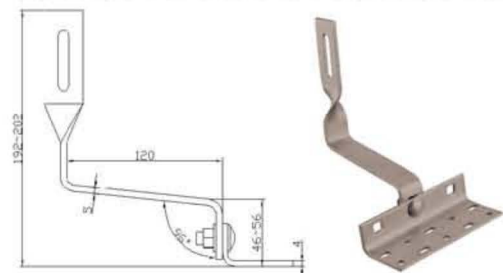
Not stocked - but can supply on request

ITEM NO.	MATERIAL	SPEC.	WEIGHT	SURFACE
IK-08	SUS304	Plate: 140*54	676 g	Sandblasted
Fix Rail To Roman Tile Roof (20pcs/carton)				



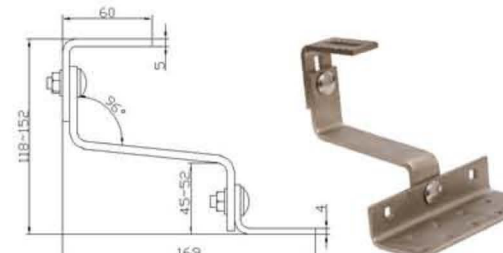
Not stocked - but can supply on request

ITEM NO.	MATERIAL	SPEC.	WEIGHT	SURFACE
IK-09	SUS304	Plate: 140*54	720g	Sandblasted
Fix Rail To Roman Tile Roof (30pcs/carton)				



Not stocked - but can supply on request

ITEM NO.	MATERIAL	SPEC.	WEIGHT	SURFACE
IK-10	SUS304	Plate: 140*54	740g	Sandblasted
Fix Rail To Roman Tile Roof (30pcs/carton)				



Not stocked - but can supply on request

ITEM NO.	MATERIAL	SPEC.	WEIGHT	SURFACE
IK-11	SUS304	Plate: 140*54	740g	Sandblasted
Fix Rail To Roman Tile Roof (30pcs/carton)				

SOLARPV4U

Your Solar Mounting Specialists



PITCHED TIN ROOF

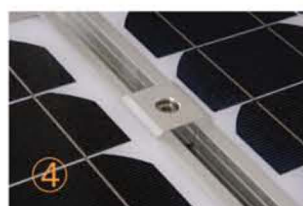
Our Pitched Roof Designs offer great flexibility for both commercial and residential roof solar systems. Innovative rail design, pre-assembled components and a variety of roof fixings make for quick and easy installation and ensure our system is suitable for all kinds of metal roofs.



Pitched Tin Roof

Technical Info

- Installation Site: Pitched Tin Roof;
- Roof Slope: Up to 60 degree;
- Max. Building Height: up to 65ft(22m), customized;
- Max. Wind Speed: 60m/s;
- Snow Load: 1.4KN/M²
- Material: Aluminum 6005-T5 & Stainless Steel 304;
- Warranty: 10 years and 25 years service life.



PITCHED TIN ROOF

Components



DESCRIPTION:

L feet, A16005-T5

FUNCTION:

Fix the rail to the purlins



DESCRIPTION:

End Clamp, A16005-T5 & Stainless Steel A2-70

FUNCTION:

Fix solar panel at the end



DESCRIPTION:

Rail, Extruded Aluminum Profile, A16005-T5
2560mm, 3405 and 4200mm are the standard size

FUNCTION:

The Rails support the solar panel



DESCRIPTION:

Mid clamp, A16005-T5 & Stainless Steel A2-70

FUNCTION:

Clamps solar panel on the Rail



DESCRIPTION:

Rail Splice, A16005-T5 & Stainless Steel A2-70

FUNCTION:

Extends the rail to the required length

How to choose the correct Roof Fixing

Take into account the following factors:

1. Type of Rafter or Purlin - Wooden or Steel Beam?
2. Type of Metal Sheet

Image A - Corrugated Roof - uses L feet or Hanger Bolt

Image B - Trapezoidal Roof - uses SS Trapezoidal Tin Profile Fixing





Pitched Tin Roof - Corrugated

Roof Fixings



Available on our website - solarpv4u.co.nz

ITEM NO.	MATERIAL	SPEC.	WEIGHT	SURFACE
IK-L	Al 6005-T5	Tin Roof	127.5 g	Clean
Fix rail to the roof with metal sheet and wooden beam				



Not stocked - but can supply on request

ITEM NO.	MATERIAL	SPEC.	WEIGHT	SURFACE
IK-H01	SUS304	M10*200	122.3 g	Clean
IK-H02	SUS304	M12*300	390.5 g	Clean
Technical Note: Pre-drill:0.7xφ, Anchoring depth=4 to 12 xφ,				



Available on our website - solarpv4u.co.nz

ITEM NO.	MATERIAL	SPEC.	WEIGHT	SURFACE
IK-H01L	SUS304	M10*200	229.8 g	Clean
IK-H02L	SUS304	M12*300	498.0 g	Clean
Technical Note: Pre-drill:0.7xφ, Anchoring depth=4 to 12 xφ,				



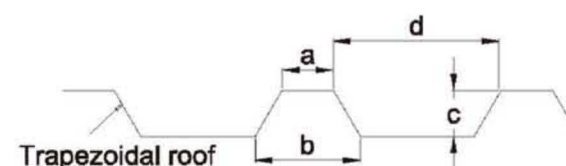
Not stocked - but can supply on request

ITEM NO.	MATERIAL	SPEC.	WEIGHT	SURFACE
IK-H01P	SUS304	M10*200	323 g	Clean
IK-H02P	SUS304	M12*300	591 g	Clean
Technical Note: Pre-drill:0.7xφ, Anchoring depth=4 to 12 xφ,				

Pitched Tin Roof - Trapazoidal Tin Profile

Roof Fixings

Specifications of the trapezoidal roof on site



a: _____ mm b: _____ mm
c: _____ mm d: _____ mm

Available on our website - solarpv4u.co.nz

ITEM NO.	MATERIAL	WEIGHT	SURFACE
SS-01	SUS304	278 g	Sandblasted
SS-02	SUS304	284 g	Sandblasted



SS-02



SS-01



Adjustable Flat Roof Mounting

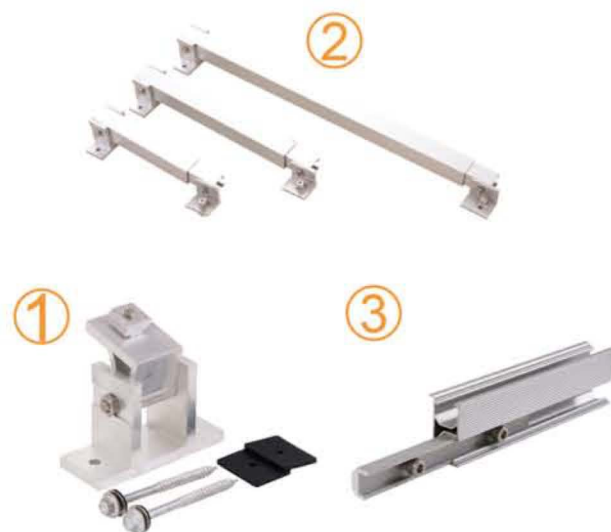
Our Adjustable Flat Roof Mounting offers great flexibility for both commercial and residential solar systems. The adjustable legs enable the solar panels to be adjusted to optimal angle for energy output.



Flat Tin Roof

Technical Info

- Installation Site: Flat Roof, Open Field;
- Module Angle: 10- 60 degree;
- Max. Building Height: up to 65ft(22m),customized available;
- Max. Wind Speed: 60m/s;
- Snow Load: 1.4KN/M²
- Material: Aluminum 6005-T5 & Stainless Steel 304;
- Warranty: 10 years and 25 years service life.



Adjustable Flat Roof Mounting

Components



DESCRIPTION:

Adjustable Front Leg, A16005-T5, With EPDM Rubber seal.

FUNCTION:

Fix the lower rail to the Tin Roof



DESCRIPTION:

Adjustable Rear Leg, A16005-T5, 10~15°, 15~30°, 30~60°

FUNCTION:

Fix the higher rail to the Tin Roof
Adjustable leg make the angle adjustable



DESCRIPTION:

Mid clamp, A16005-T5 & Stainless Steel A2-70

FUNCTION:

Fix solar panel on the Rail



DESCRIPTION:

End Clamp, A16005-T5 & Stainless Steel A2-70

FUNCTION:

Fix solar panel at the end



DESCRIPTION:

Rail, Extruded Aluminum Profile, A16005-T5
2560mm, 3405 and 4200mm are the standard size

FUNCTION:

The Frame support the solar panel



DESCRIPTION:

Rail Splice, A16005-T5 & Stainless Steel A2-70

FUNCTION:

Extend the rail to the required length

Leg Specification

Available on our website - solarpv4u.co.nz

ITEM NO	MATERIAL	SPEC	WEIGHT	SURFACE
AD-FL	Al 6005-T5	---	348.0 g	Clean
AD-RL10/15	Al 6005-T5	10-15 Degree	790.5 g	Clean
AD-RL15/30	Al 6005-T5	15-30 Degree	1049.5 g	Clean
AD-RL 30/60	Al 6005-T5	30-60 Degree	1595.3 g	Clean

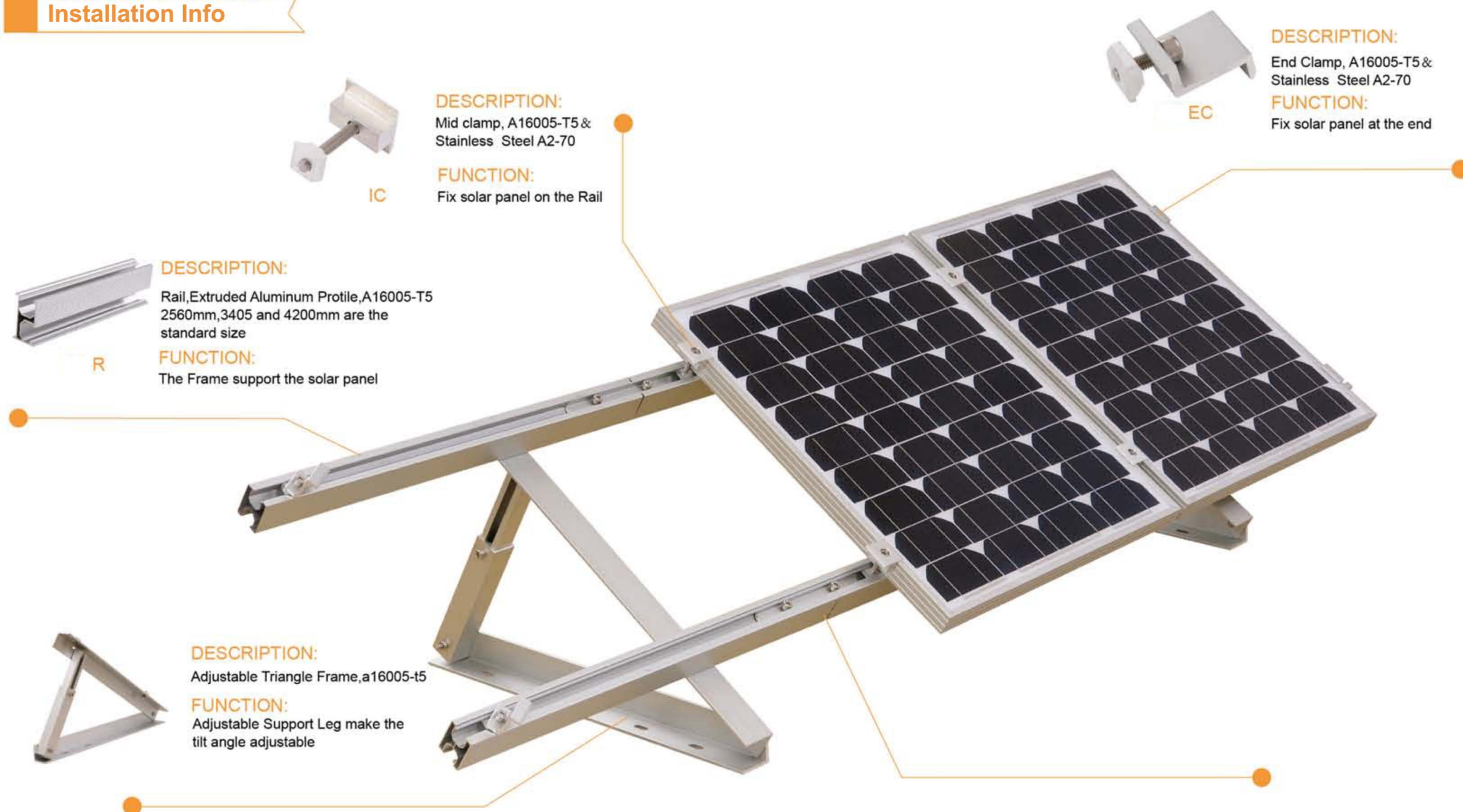
SOLARPV4U

Your Solar Mounting Specialists



Adjustable Triangle Mounting System

Installation Info



Support Options

AST-15-30: 15 - 30 Degree Adjustable Angle
AST-20-40: 20 - 40 Degree Adjustable Angle
AST-30-60: 30 - 60 Degree Adjustable Angle

Panel Layout

Both Portrait and Landscape workable.

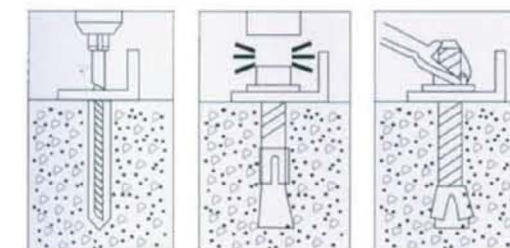
Frame Fixing

there are two kinds of fixing

1. By Expansion Bolt



Apply to: Concrete Foundation



Step1: Drill a hole of required diameter and depth.

Step2: Lightly tap the throughbolt through the fixture into hole with a hammer

Step3: Tighten to the recommended torque.

2. By Self Screw



Apply to: Tin Roof, with Wooden Beam

If it is a Tin Roof with Wooden Beams you can screw the Triangle Frame to the beam directly. Make sure there is an EPDM rubber seal used with the self screw for waterproofing.

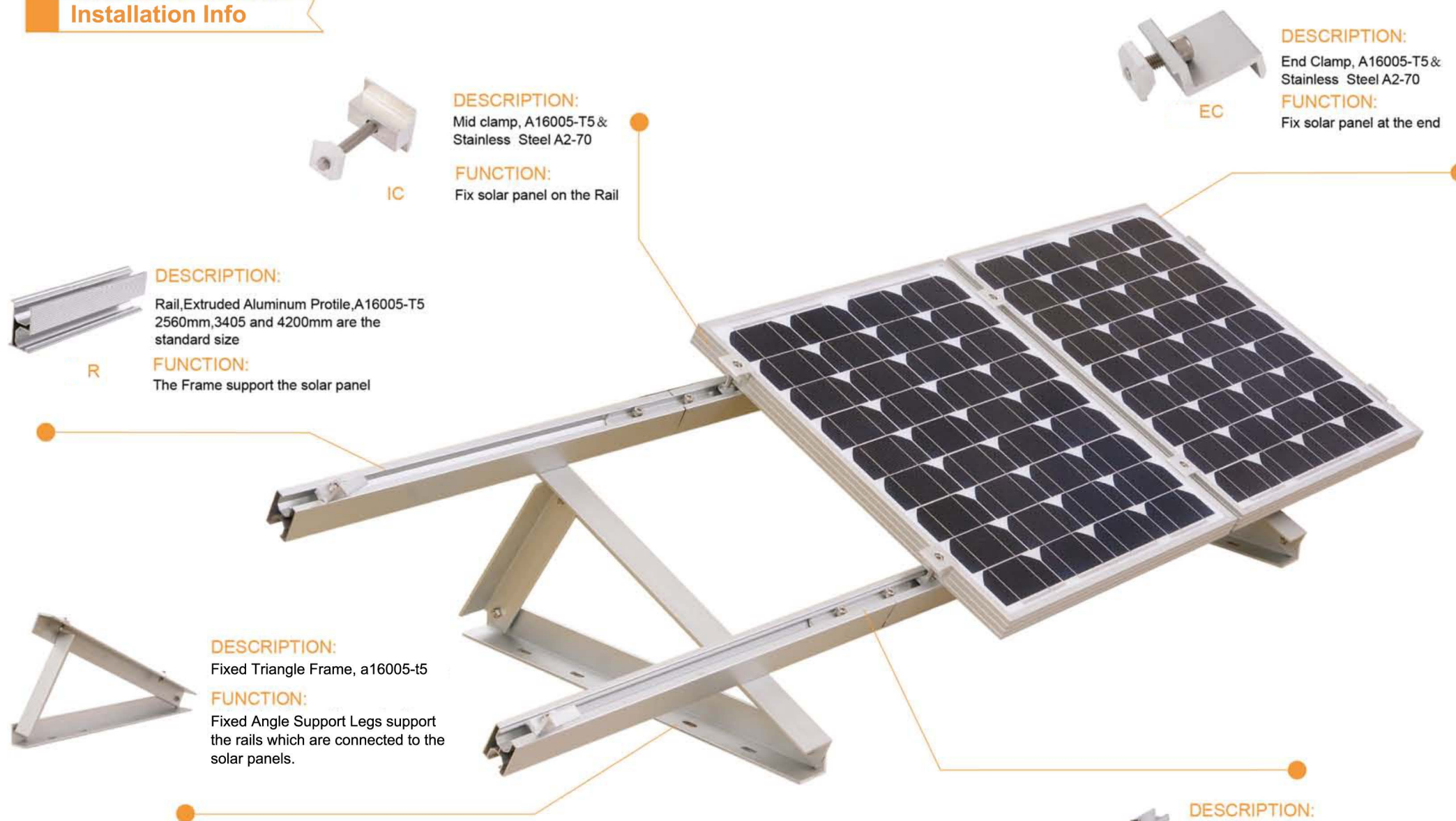
SOLARPV4U

Your Solar Mounting Specialists



Fixed Triangle Mounting System

Installation Info



Support Options

ST-20: 20 Degree Fixed Angle
ST-25: 25 Degree Fixed Angle
ST-30: 30 Degree Fixed Angle

Panel Layout

Both Portrait and Landscape workable.

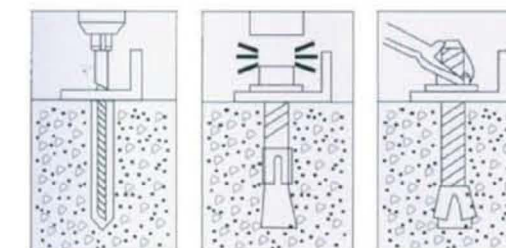
Frame Fixing

there are two kinds of fixing

1. By Expansion Bolt



Apply to: Concrete Foundation



Step1: Drill a hole of required diameter and depth.

Step2: Lightly tap the throughbolt through the fixture into hole with a hammer

Step3: Tighten to the recommended torque.

2. By Self Screw



Apply to: Tin Roof, with Wooden Beam

If it is a Tin Roof with Wooden Beams you can screw the Triangle Frame to the beam directly. Make sure there is an EPDM rubber seal used with the self screw for waterproofing.