



## Galvanic Corrosion

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# INTRODUCTION



## PT Philosophy

- Responsibility
- Customer Oriented
- Share Value

PT is a professional solar mounting system manufacturer with over 9 years experience in the design and manufacturing of aluminum and steel solar mounting system with more than 400 employees globally designed, developed and produced solar mounting systems on roofs and ground mounted systems.



In order to come up with the right solution to customers in the world, PT dedicate to design locally as local code in the combination of international code and provide with variable solution to adapt to actual installation condition. Meanwhile PT offer products with high level pre-assemble in house to reduce installation cost.

The completed production line from aluminum extrusion, anodizing, steel parts production to packing enables us to control quality in house.

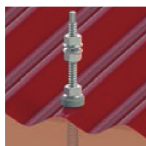




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## Pitched & Flat Roof Racking System





## Introduction

The PT systems are designed from the onset to be very flexible. The Pitched Roof Racking system is suitable for both commercial and residential applications.

Our framed module is available for flush mounting to the roof. Installation costs are minimised through the use of our aluminium rails, pre-assembled clamps, roof hooks and "tilt in" module clamps. The cut to length rails eliminate on site cutting and welding leading to an exceptionally neat and strong installation.

## Features

**Easy Installation** The Tilt In Module can be pre-assembled with clamps and roof hooks to enable a quick installation.

**Flexibility and Adjustment** The PT Pitched Roof Racking System will accommodate most commercially available framed and frameless solar panels and roof types.

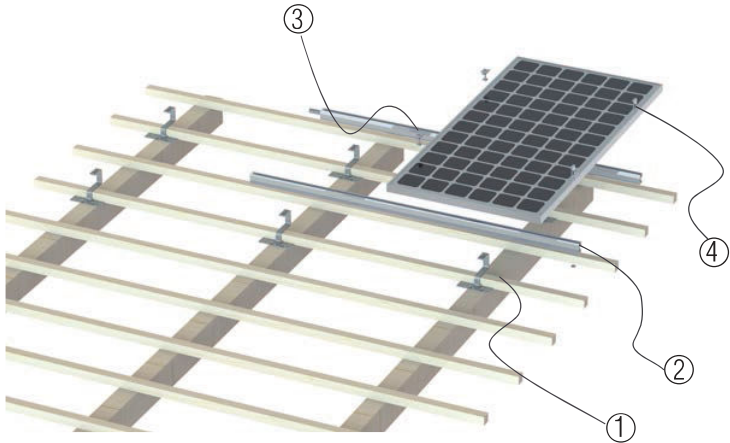
**Safety & Reliability** The PT Pitched Roof Racking System has been designed to withstand extreme weather conditions in accordance with WINDACTIONS: EU,UL,JISC,AS/NZS and other international Standards.

	Specifications
<b>Installation Type</b>	Pitched and flat roof
<b>Inclination</b>	Flush with roof, up to 60 degrees
<b>Building Height</b>	20 metres max
<b>Wind Velocity</b>	80 m/s max
<b>Snow Load</b>	2.4 kN/m <sup>2</sup> max
<b>Design Standards</b>	EU,UL,JISC,AS/NZS and other international Standards
<b>Material</b>	Aluminium alloy and stainless steel
<b>Color</b>	Natural
<b>Surface Finish</b>	Anodised parts
<b>Warranty</b>	10 years
<b>Life</b>	In excess of 20 years



## Standard Flush Mount System

Easy Installation for any pitch, Flexibility and Adjustment, Cost-effective, custom solution for residential roof



We offer mix and match components. Our solution is able to meet almost any roof type and module layout All flush mount include three key components as below,

- 1. Roof Attachment
- 2. Rail
- 3. Middle Clamp
- 4. End Clamp



### Rail for Rooftop

<b>Material</b>	Extruded aluminium section Grade Al 6005-T5
<b>Colour</b>	Natural
<b>Lengths</b>	Up to 7.6 m on special order
<b>Note</b>	A Heavier Rail can be supplied.
<b>Pack Qty</b>	40

	Ordering Code	Length (mm)
Standard Rail	PT-2R-2560mm	2560
	PT-2R-3405mm	3405
	PT-2R-4200mm	4200

	Ordering Code	Length (mm)
Standard Rail	PT-SA2-2560mm	2560
	PT-SA2-3405mm	3405
	PT-SA2-4200mm	4200

	Ordering Code	Length (mm)
Standard Rail	PT-1R-2560	2560
	PT-1R-3450	3450
	PT-1R-4200	4200

	Ordering Code	Length (mm)
Standard Rail	PT-SA-2560	2560
	PT-SA-3450	3450
	PT-SA-4200	4200



Pitched & Flat Roof Racking System

### SSK Rail Splice Kit

<b>Material</b>	Extruded aluminium section Grade Al 6005-T5
<b>Finish</b>	Anodised
<b>Colour</b>	Natural
<b>Box Qty</b>	50
<b>Ordering Code</b>	SSK





## SIC Mid Clamp or Inter Clamp

- Material** • Extruded aluminium section Grade Al 6005-T5  
• A2-70 stainless steel M8 socket head bolts
- Finish** Anodised
- Colour** Natural
- Box Qty** 100
- Weight** 0.067kg
- Note** • Pre-assembled to be compatible with most framed modules.  
• Available in black as well.  
These are made to order.

Ordering Code	Description
PT-IC-F30	30 mm Mid Clamp
PT-IC-F32	32 mm Mid Clamp
PT-IC-F35	35 mm Mid Clamp
PT-IC-F38	38 mm Mid Clamp
PT-IC-F40	40 mm Mid Clamp
PT-IC-F45	45 mm Mid Clamp
PT-IC-F50	50 mm Mid Clamp



## SEC End Clamp

- Material** • Extruded aluminium section Grade Al 6005-T5  
• A2-70 stainless steel M8x25 socket head bolts
- Finish** Anodised
- Colour** Natural
- Weight** 0.056kg
- Note** Also available in black.  
These are made to order.

Ordering Code	Description
PT-EC-F30	30 mm End Clamp
PT-EC-F32	32 mm End Clamp
PT-EC-F35	35 mm End Clamp
PT-EC-F38	38 mm End Clamp
PT-EC-F40	40 mm End Clamp
PT-EC-F45	45 mm End Clamp
PT-EC-F50	50 mm End Clamp





### SIC Mid Clamp or Inter Clamp

- Material**
- Extruded aluminium section Grade Al 6005-T5
  - A2-70 stainless steel M8 socket head bolts
  - EPDM Pad
- Finish** Anodised
- Colour** Natural
- Box Qty** 100
- Note**
- Pre-assembled to be compatible with most unframed modules.
  - Available in black as well.
- These are made to order.

Ordering Code	Description
PT-TF	Thin Film Mid Clamp



### SEC End Clamp

- Material**
- Extruded aluminium section Grade Al 6005-T5
  - A2-70 stainless steel M8x25 socket head bolts
  - EPDM Pad
- Finish** Anodised
- Colour** Natural
- Note**
- Also available in black.
- These are made to order.

Ordering Code	Description
PT-EF	Thin Film End Clamp

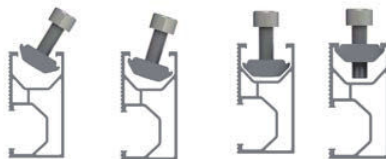
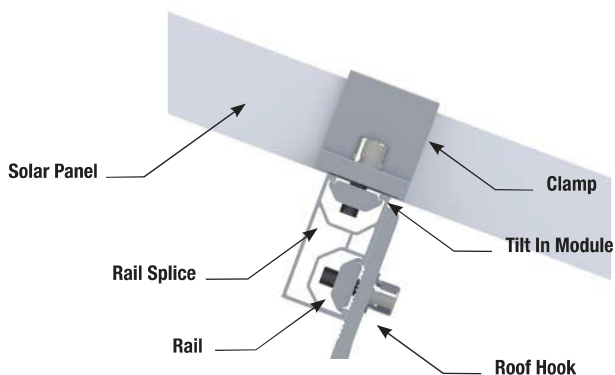
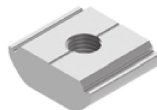






### SATM Tilt In Module for Rail & Accessories

Ordering Code	Description
<b>SATM01</b>	Width 20mm, M8 Threaded Hole



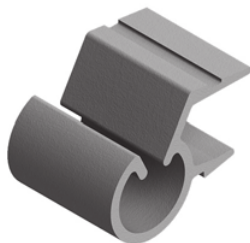
Installing the Tilt In Module into the Rail

**SCC-P****Plastic Cable Clip**

The Plastic Cable Clip, clips onto the Rail providing a neat cable run. The material is a high performance weather resistant plastic. It can be installed and removed by hand without the use of tools and can be reused. The design fits most modules and can accommodate two cables.

**Material** Nylon

**Weight** 0.0022 Kg

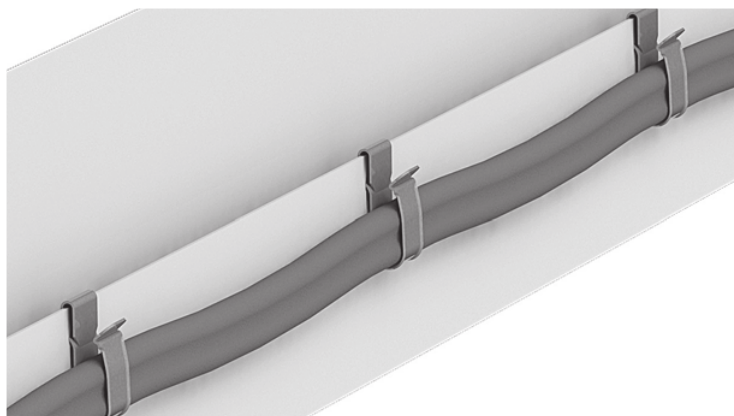
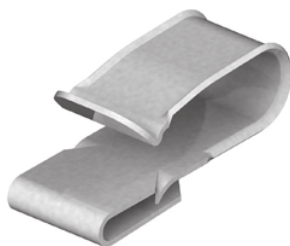




**SUP GS**

**Stainless Steel Under Panel Cable Clip**

**Material** Stainless steel 304



Pitched & Flat Roof Racking System

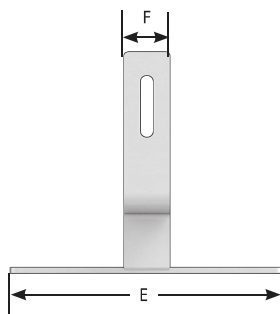
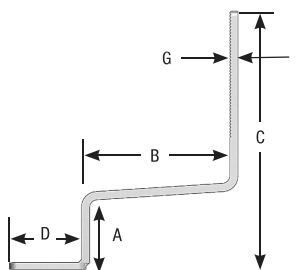


**Material** Extruded aluminium section Grade Al 6005-T5

Stainless steel grade, A2-70 Stainless steel 304 bolts

**Note**

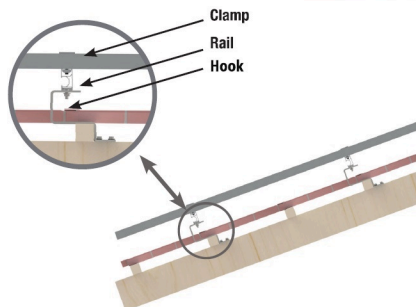
- Pre-assembled with the Tilt In Module or screw
- Select according to roof type
- Select according to weather condition
- Includes 3/8" head x 80mm wood screws



	A	B	C	D	E	F	G
<b>PT-AIK-17</b>	52-64	114	127~168	48	150	30	6.5
<b>PT-AIK-17A</b>	52-64	114	127~168	48	90	30	6.5
<b>PT-AIK-01</b>	52-64	114	171~181	48	150	30	6.5
<b>PT-HK-03B</b>	38-58	120	117~137	135	50	50	6.5
<b>PT-HK-02</b>	46	101	166	50	180	30	5
<b>PT-HK-03</b>	30	190	166	80	30	30	5
<b>PT-HK-04</b>	30	101	166	50	30	30	5
<b>PT-HK-06</b>	46	70	166	50	180	30	5
<b>PT-HK-09</b>	46	111	200	60	180	35	8
<b>PT-HK-12</b>	38-50	101	158-170	55	140	30	5



### Tile Roof Hook Installation



#### **PT-AIK-17 Tile Roof Hook**

- For fixing rails to Roman tile roof
- For high and low snow loads and wind loads
- Box quantity 40
- Includes 3/8" head x 80mm wood screws

#### **PT-AIK-17A Tile Roof Hook**

- For fixing rails to Roman tile roof
- For high and low snow loads and wind loads
- Box quantity 40
- Includes 3/8" head x 80mm wood screws

#### **PT-AIK-28 Tile Roof Hook**

- For fixing rails to Roman tile roof
- For high and low snow loads and wind loads
- Box quantity 40
- Includes 3/8" head x 80mm wood screws

#### **PT-AIK-01 Tile Roof Hook**

- For fixing rails to Roman tile roof
- For high and low snow loads and wind loads
- Box quantity 40
- Includes 3/8" head x 80mm wood screws

#### **PT-HK-03B Tile Roof Hook**

- For fixing rails to Roman tile roof
- For high and low snow loads and wind loads
- Box quantity 40
- Includes 3/8" head x 80mm wood screws



# 1.12 Pitched & Flat Roof Racking System > Roof Attachment



## PT-HK-02 Stainless Steel Hook 1#

- For fixing rails to Roman tile roof.
- For low snow loads and normal wind loads.
- Box quantity 40



## PT-HK-16 Stainless Steel Hook 16#

- For fixing rails to Roman tile roof.
- For low snow loads and normal wind loads.
- Box quantity 40



## PT-HK-03 Stainless Steel Hook 2#

- For fixing rails to flat tile roof
- For low snow loads and normal wind loads
- Box quantity 60
- Includes 3/8" head x 80mm wood screws
- Limited stocks held



## PT-HK-03B Stainless Steel Hook 2#

- For fixing rails to flat tile roof
- For low snow loads and normal wind loads
- Box quantity 60
- Includes 3/8" head x 80mm wood screws
- Limited stocks held



## PT-HK-04 Stainless Steel Hook 3#

- For fixing rails to Roman tile roof
- For low snow loads and normal wind loads
- Box quantity 24
- Includes 3/8" head x 80mm wood screws
- Limited stocks held



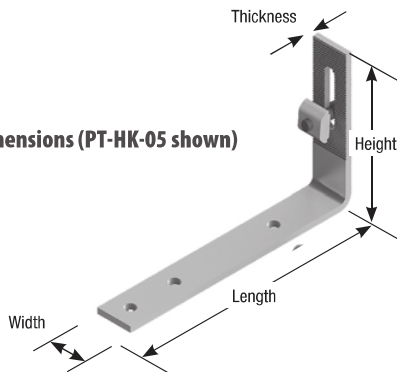
## PT-HK-06 Stainless Steel Hook 6#

- For fixing rails to Roman tile roof
- For low snow loads and normal wind loads
- Box quantity 40
- Includes 3/8" head x 80mm wood screws
- Limited stocks held



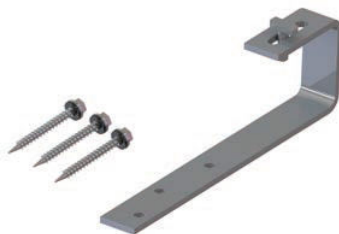


**Typical dimensions (PT-HK-05 shown)**



	Length	Height	Width	Thickness
<b>PT-HK-05A</b>	200	120	30	5
<b>PT-0P01</b>	90	90	50	4

**Note** Limited stocks held



**PT-HK-15**

# 1.14 Pitched & Flat Roof Racking System

## > Roof Attachment



### PT-HK-05A Stainless Steel Hook 5# A Type

- For side fixing rails to Pan tile roof
- For low snow loads and normal wind loads
- Box quantity 80
- Includes 3/8" head x 80mm wood screws
- Limited stocks held



### PT-AP01 Stainless Steel Hook Side Adjust Plate 1#

- Stainless steel hook Monch Nonne
- Used for side fixing the Hook to the rafter
- For low snow loads and normal wind loads
- Box quantity 40
- Limited stocks held



### PT-HK-14A Stainless Steel Hook 14#A Type

- For side fixing rails to Pan tile roof
- For low snow loads and normal wind loads
- Box quantity 80
- Includes 3/8" head x 80mm wood screws
- Limited stocks held



### PT-HK-14B Stainless Steel Hook 14#B Type

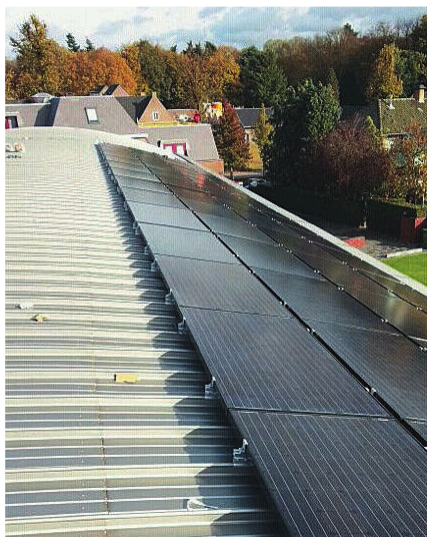
- Stainless steel hook Monch Nonne
- Used for fixing the Hook to the rafter
- For low snow loads and normal wind loads
- Box quantity 40
- Limited stocks held







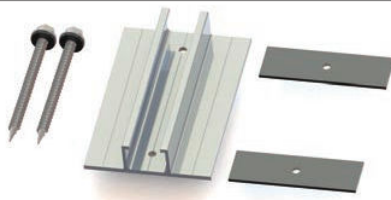
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**Free from  
Rails, Assemble  
with Clamps to  
secure modules**

Ordering Code	Description
<b>PT-IK-FR01</b>	Trapezoid and Corrugated Metal Roof Hook
<b>PT-IK-FR02</b>	Trapezoid and Corrugated Metal Roof Hook



**PT-IK-FR01**

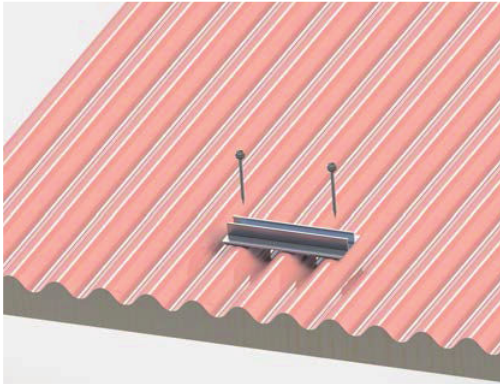


**PT-IK-FR02**



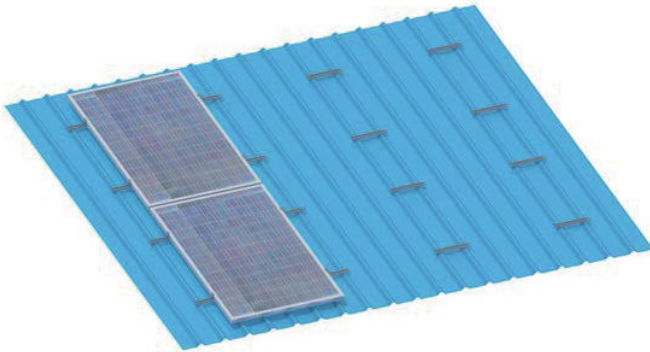
# Pitched & Flat Roof Racking System > Trapezoid and Corrugated Metal Roof

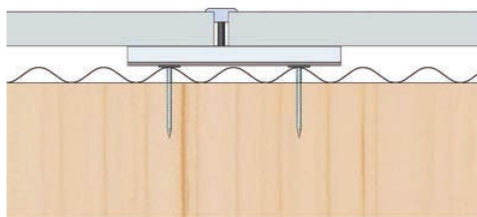
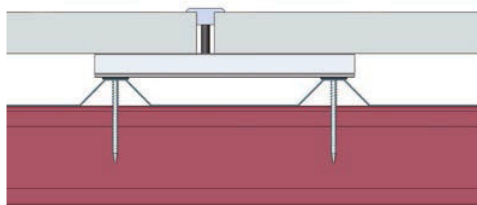
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Pitched & Flat Roof Racking System

Universal Solution to Trapezoid Metal Roof and Corrugated Metal Roof



**Wood Purlins****Steel Purlins**



## Pitched & Flat Roof Racking System > Asphalt Shingle

1.23



Pitched & Flat Roof Racking System

**Material** Extruded aluminium section Grade Al 6005-T5  
Stainless steel grade 304 bolts

**Colour** Natural

**Finish** Anodised

**Note** Angle plate can be pre-assembled with standoff



PT-SF

Standoff	Description
2"	51 mm
4"	102 mm
6"	152 mm
8"	203 mm
10"	254 mm
12"	304 mm



PT-FLASH



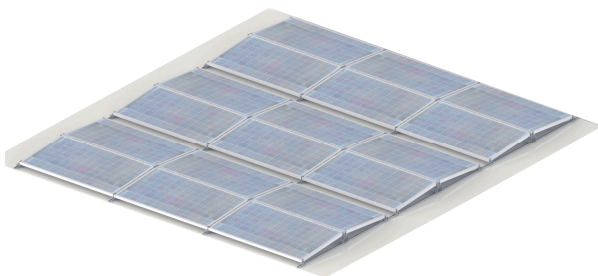
PT-YZF-10°, PT-YZF-15°

**Material**  
**Colour**  
**Note**

Extruded aluminium section Grade Al 6005-T5

Stainless steel grade 304 bolts

- Pre-assembled in house to reduce labor cost in installation
- Without penetrating on the roof
- One side or double side configuration
- Statics and Design Loads



Solution for East-West



## Introduction



Numbe	Ordering Code	Name
-------	---------------	------

1	PT-YZF10°	Supporter for the first line
---	-----------	------------------------------

2	PT-YZM10°	Supporter for the middle line
---	-----------	-------------------------------

3	PT-YZM10°	Supporter for the last line
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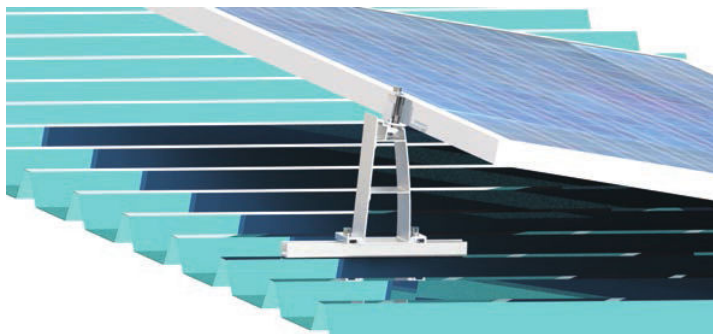
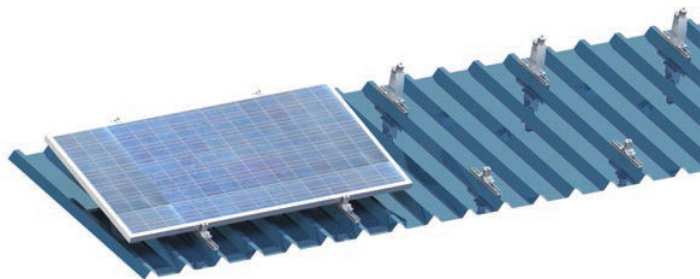
4	PT-IC-F40	End Clamp
---	-----------	-----------

5	PT-HL-C60	Supporter Clamp
---	-----------	-----------------

6	PT-WD10	Wind Breaker
---	---------	--------------

7		Brick
---	--	-------

Carport



## PT-YZF-10°, PT-YZF-15° Application on Metal Roof

- For a roof inclination of up to 15° on trapezoidal sheet metal
- Economical in terms of materials and transportation



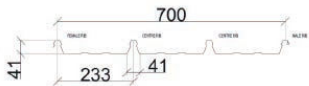

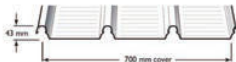





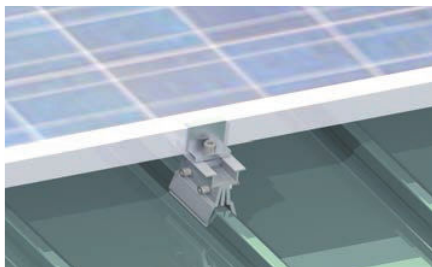
## PT Metal Roof Attachment System Overview

 <p><b>Butler-roof</b></p> 	 <p>PT-BTR-S01</p>
	 <p>PT-HK-08</p>
	 <p>PT-HK-S08</p>
 <p><b>KalZip-roof</b></p>	 <p>PT-SAF-S02</p>
	 <p>PT-SAF-S02-A</p>
 <p><b>Zambelli Rib Roof Speed 500</b></p>	 <p>PT-ZR-S03</p>
	 <p>PT-ZR-S03-A</p>



## PT Metal Roof Attachment System Overview

 <p><b>Klip-lok 700</b></p>	 <p>PT-KHD-SK7</p>
 <p><b>Klip-lok 700 Hi-Strength</b></p>	 <p>PT-KHD-SK7-A</p>
	 <p>PT-KH-S07</p>
	 <p>PT-KH-S07-A</p>



- Material** Extruded aluminium section Grade Al 6005-T5
- Colour** Natural
- Note**
- Pre-assembled with the Tilt In Module
  - Customised according to the section profile of the sheet metal roofing
  - The standard aluminium Hook is made to fit the roof sheet profile as shown in the illustration.
  - For other roof profiles, manufactured against firm orders only and may incur additional tooling costs.

Ordering Code	Description
PT-KHD-SK7-A	Lock 700 Roof Attachment
PT-KHD-SK7	Lock 700 Roof Attachment 2#



PT-KHD-SK7-A

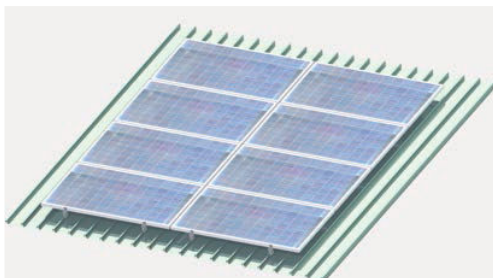


PT-KHD-SK7

# 1.30 Pitched & Flat Roof Racking System > Clip Lock Roof Hooks



**Klip Lock 700 Roof**



**Across**



**Parallel**



# Pitched & Flat Roof Racking System

## > Clip Lock Roof Hooks

1.31

**Material** Extruded aluminium section Grade Al 6005-T5

**Colour** Natural

**Note**

- Pre-assembled with screws
- Customised according to the section profile of the sheet metal roofing
- The Klip-lock 700 Hi Strength is made to fit the roof sheet profile as shown in the illustration.
- For other roof profiles, manufactured against firm orders only and may incur additional tooling costs.

Ordering Code	Description
<b>PT-KH-S07</b>	Klip-lock 700 Hi Strength Roof Attachment 1#
<b>PT-KH-S07-A</b>	Klip-lock 700 Hi Strength Roof Attachment 2#



**PT-KH-S07-A**



**PT-KH-S07**

Pitched & Flat Roof Racking System

## 1.32 Pitched & Flat Roof Racking System > Kal-Zip Roof Hooks



**Material** Extruded aluminium section Grade Al 6005-T5

**Colour** Natural

**Note**

- Pre-assembled with screws
- Customised according to the section profile of the sheet metal roofing
- The standard Aluminum Attachment is made to fit the roof sheet profile as shown in the illustration.
- For other roof profiles, manufactured against firm orders only and may incur additional tooling costs.

Ordering Code	Description
<b>PT-SAF-S02</b>	Kal-Zip Roof Hooks
<b>PT-SAF-S02-A</b>	Kal-Zip Roof Hooks



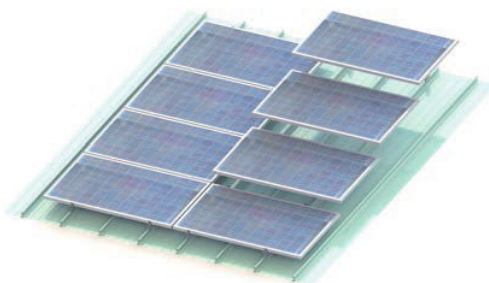
**PT-SAF-S02-A**



**PT-SAF-S02**



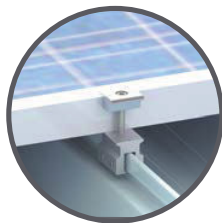
**KalZip-roof profile**



**Across**



**Parallel**



**Material** Extruded aluminium section Grade Al 6005-T5

**Colour** Natural

**Note**

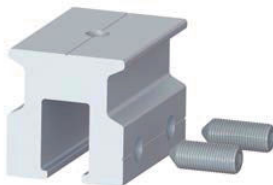
- Pre-assembled with the Tilt In Module
- Customised according to the section profile of the sheet metal roofing
- The standard aluminium Hook is made to fit the roof sheet profile as shown in the illustration.
- For other roof profiles, manufactured against firm orders only and may incur additional tooling costs.

**Ordering Code**

**Description**

**PT-BTR-S01**

Standing Seam Roof Hook







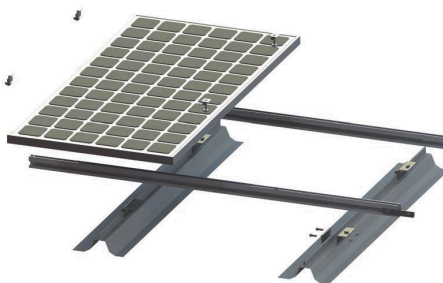
**Standing Seam Roof**



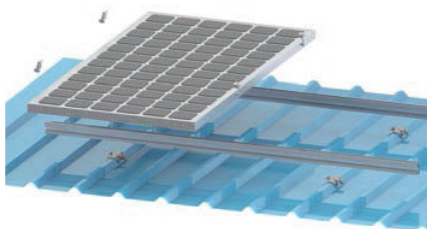
**Across**



**Parallel**



Ordering Code	Description
<b>PT-HK-08</b>	Standing Seam Roof Attachment
<b>PT-HK-07A</b>	Trapezoid Roof Attachment

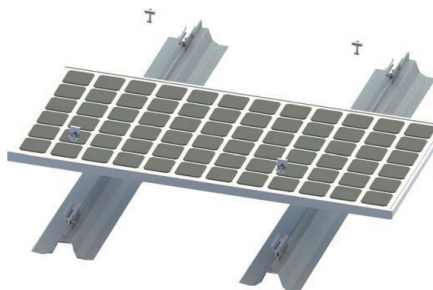
**PT-HK-08****PT-HK-07A**



# Pitched & Flat Roof Racking System

## > Standing Seam Roof Hooks

1.37



**Material** Extruded aluminium section Grade Al 6005-T5

**Colour** Natural

**Note**

- Pre-assembled with the Tilt In Module
- Customised according to the section profile of the sheet metal roofing
- The standard aluminium Hook is made to fit the roof sheet profile as shown in the illustration.
- For other roof profiles, manufactured against firm orders only and may incur additional tooling costs.

Ordering Code	Description
PT-IK-S08-03	Standing Seam Roof Hook





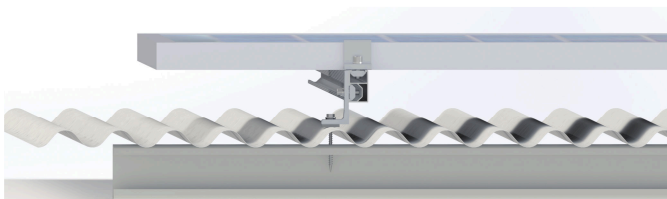
<b>Material</b>	Extruded aluminium section Grade Al 6005-T5 Stainless steel grade 304 bolts EPDM Pad
<b>Colour</b>	Natural
<b>Finish</b>	Anodised
<b>Note</b>	Pre-assembled with the Tilt In Module

### PT-LK-01 L Feet Kit, Compatible with flashing protect

- For fixing rails to corrugated sheet roof
- Includes 3/8" head x 80mm wood screws
- Rubber pad included



**Installation on trapezoid and corrugated metal roof**





# Pitched & Flat Roof Racking System

## > Fibre Cement Roof Hooks

1.39

<b>Material</b>	Stainless steel grade 304
<b>Colour</b>	Natural
<b>Finish</b>	Anodised
<b>Note</b>	Pre-assembled with the Tilt In Module



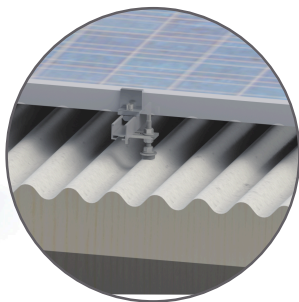
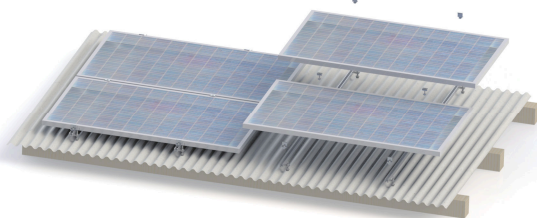
Pitched & Flat Roof Racking System

### **PTH01 Hanger Bolt Hook 1#**

- For fixing rails to fibre cement roof
- M10x200 Hanger Bolt Kit with Angle Plate Kit.
- Manufactured against firm order only.

### **PTH02 Hanger Bolt Hook 2#**

- For fixing rails to corrugated sheet roof.
- M12x200 Hanger Bolt Kit with Angle Plate Kit.
- Manufactured against firm order only.





- Material** Stainless steel grade 304
- Colour** Natural
- Note** Pre-assembled with the Tilt In Module.



### PTH03 Hanger Bolt Hook 3#

- For fixing rails to corrugated sheet roof.
- M12x300 Hanger Bolt Kit with Angle Plate Kit.
- Manufactured against firm orders only.

### PTH04 Hanger Bolt Hook 4#

- For fixing rails to corrugated sheet roof.
- M10x200 Hanger Bolt Kit with L Feet Kit Angle Plate Kit.
- Manufactured against firm orders only.

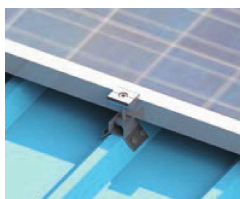
Ordering Code	Description	Description
<b>PTM6X80</b>	Stainless Sheet Metal Interface Kit	Wood Screw M6x80
<b>PTH01</b>	Hanger Bolt Hook 1#	Hanger Bolt M10x200
<b>PTH02</b>	Hanger Bolt Hook 2#	Hanger Bolt M12x200
<b>PTH03</b>	Hanger Bolt Hook 3#	Hanger Bolt M12x300
<b>PTH04</b>	Hanger Bolt Hook 4#	Hanger Bolt M10x200 & L Feet



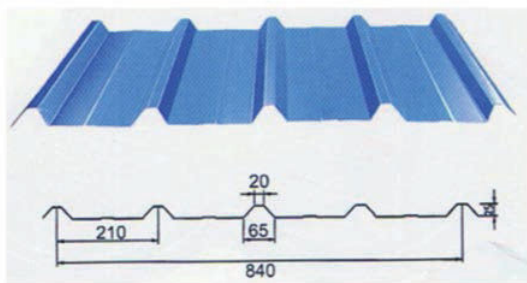
# Pitched & Flat Roof Racking System >Trapezoid Metal Roof

1.41

Ordering Code	Description
<b>PT-IK-07-AL</b>	Aluminum Trapezoid Metal Roof Attachment



PT-IK-07-AL



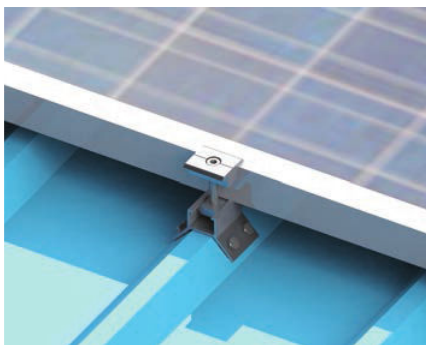
Standard Trapezoid Roof



## 1.42 Pitched & Flat Roof Racking System > Trapezoid Metal Roof Attachment



Pitched & Flat Roof Racking System



**Across**



**Parallel**





# Pitched & Flat Roof Racking System

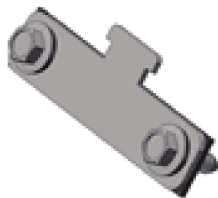
## > Trapezoid and Corrugated Metal Roof Attachment

1.43

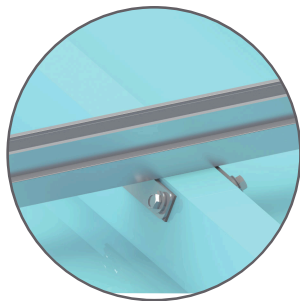
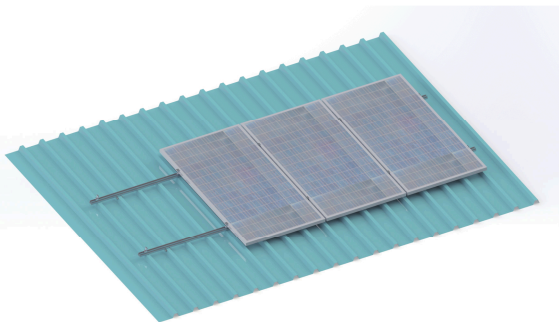
<b>Material</b>	Stainless steel grade 304 Stainless steel grade 304 bolt EPDM Pad
<b>Colour</b>	Natural
<b>Finish</b>	Stainless
<b>Note</b>	compatabile with SA-2 and SA rails

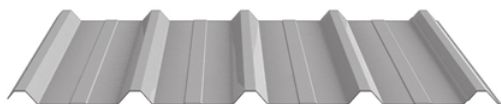
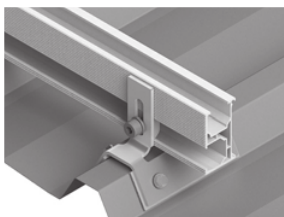
### PT-UT-90 Attachment to the trapezoid metal roof

- For fixing rails to trapezoid metal roof
- Include ST6.3X25 self tapping screws
- EPDM pad included



### Installation on trapezoid metal roof



**Standard roof sheet profile****Across****Parallel**

(continued)



## SHSB Socket Head Screw

Ordering Code	Description
<b>SHSB20S</b>	Socket Head Screw M8x20
<b>SHSB25S</b>	Socket Head Screw M8x25
<b>SHSB28S</b>	Socket Head Screw M8x28
<b>SHSB30S</b>	Socket Head Screw M8x30
<b>SHSB35S</b>	Socket Head Screw M8x35
<b>SHSB40S</b>	Socket Head Screw M8x40
<b>SHSB45S</b>	Socket Head Screw M8x45
<b>SHSB50S</b>	Socket Head Screw M8x50
<b>SHSB55S</b>	Socket Head Screw M8x55
<b>SHSB60S</b>	Socket Head Screw M8x60
<b>SHSB65S</b>	Socket Head Screw M8x65



Material: Stainless Steel A2-70

Pitched & Flat Roof Racking System

## HN & HNF Nut

Ordering Code	Description
<b>HN8S</b>	Hexagon Nut M8
<b>HNF8S</b>	Hexagon Nut M8

HN Series



HNF Series



Material: Stainless Steel A2-70

## SW & FW Washer

Ordering Code	Description
<b>SW8S</b>	Spring Washer M8
<b>FW813S</b>	Lock Washer M8 OD13
<b>FW818S</b>	Lock Washer M8 OD18

SW series



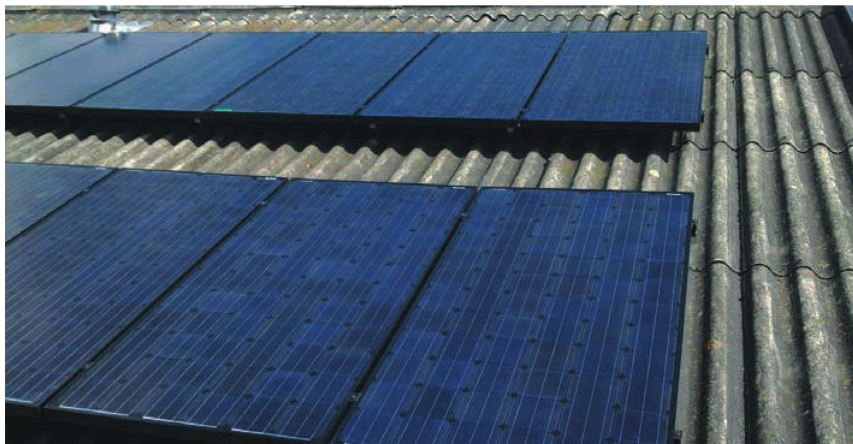
FW series



Material: Stainless Steel A2-70

**ST****Self Tapping Screw****Ordering Code****Description****ST625S**

Self Tapping Screw St6.3x25





## GWS

## Wood Screw - Stainless 410

Ordering Code	Description
<b>GWS680PS</b>	Stainless 410 Wood Screw St6.3x80 with Pad
<b>GWS880PS</b>	Stainless 410 Wood Screw M8x80 with Pad
<b>GWS1080PS</b>	Stainless 410 Wood Screw M10x80 with Pad
<b>GWS1080PS</b>	GWS3/8PS:Stainless 410 Wood Screw 3/8" with pad

Manufactured against firm orders if the fasteners are ordered separately from the brackets.



Pitched & Flat Roof Racking System

## HB

## Hanger Bolt - Stainless Steel

Ordering Code	Description
<b>HB10200S</b>	Hanger Bolt M10x200 Stainless Steel A2-70
<b>HB12200S</b>	Hanger Bolt M12x200 Stainless Steel A2-70
<b>HB12300S</b>	Hanger Bolt M12x300 Stainless Steel A2-70

Manufactured against firm orders if the fasteners are ordered separately from the brackets.



## HBK

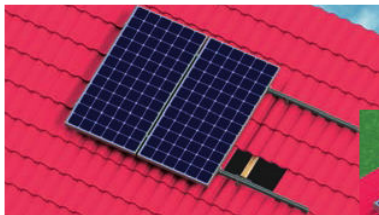
## Hanger Bolt Assembly - Stainless Steel

Ordering Code	Description
<b>HBK10200S</b>	Hanger Bolt Kit M10x200 Stainless Steel A2-70
<b>HBK12200S</b>	Hanger Bolt Kit M12x200 Stainless Steel A2-70
<b>HBK12300S</b>	Hanger Bolt Kit M12x300 Stainless Steel A2-70





### Framed Module Project



**Tile Roof**



**Corrugated metal Roof**

Solar Panel Dimensions	Rail	Roof Hook	Inter Clamp	End Clamp	Rail Splice
<b>1650 x 992 x 45</b>	<b>PT-1R-XXX</b>	<b>PT-HK-xxx (Tile) PT-HK-01 (Sheet Metal)</b>	<b>PT-IC-F45</b>	<b>PT-EC-F45</b>	<b>SSK</b>
Tile Roof 3 panels	3200 mm 2 length	6	4	4	0
Tile Roof 4 panels	4200 mm 2 length	6	6	4	0
<b>1585x826x45</b>	<b>PT-1R-XXX</b>	<b>PT-HK-xxx (Tile)</b>	<b>PT-IC-F45</b>	<b>PT-EC-F45</b>	<b>SSK</b>
Tile Roof 3 panels	2560 mm 2 length	6	4	4	0
Tile Roof 4 panels	3400 mm 2 length	6	6	4	0

**Note:** This layout is applicable to low snow loads and normal wind loads. Actual layout subject to Maximum Rail Support Spacing According to Wind Regions in chart 4



2.5

2

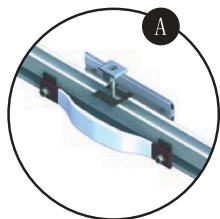
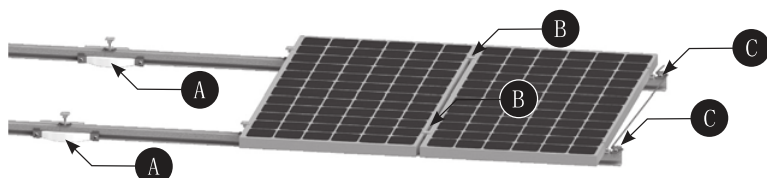
Earthing system



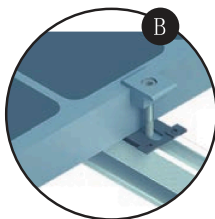


### Introduction

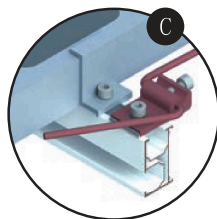
The PT Earthing System is used to bond the solar modules to the aluminium rails and the aluminium rails to earth so that the entire system is electrically earthed. The Earthing system complies with international code for bonding and Earthing systems.



**PTJUM PT Bonding Jumper**

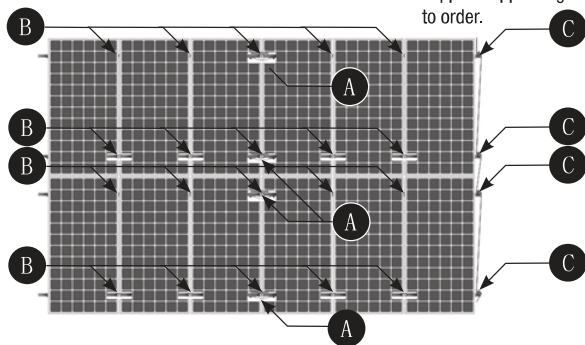


**PT Grounding Clip**



**PT Grounding Lug**

Available in aluminium and copper. Copper Lug is made to order.







## PT-CLIP Earthing Clip

**Material** Stainless steel grade 304

**Note**

- Special rib on both surfaces which pierces through the anodising layer.
- Used in conjunction with Inter Clamp for installation on the Rail.



## PT-LUG Earthing Lug

**Material** Al6005-T5 aluminium lay in lug; A2-70 stainless steel clip and bolt.

**Note** Used to electrically bond the system to the ground conductor.



## PT-SGCLUG Copper Earthing Lug

**Material** Copper lay in lug; A2-70 stainless steel clip and bolt.

**Note**

- Used to electrically bond the system to the ground conductor.
- Made to order.



Earthing System

## PT-JUM Bonding Jumper

**Material** Braided Copper strap; A2-70 stainless steel clip and bolt.

**Note** Used to electrically bond the spliced rails.

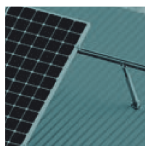




3



Tilt Racking System





### Introduction

The Tilt Racking System has been developed for mounting the solar panel modules at an angle on flat roofs, tilt roofs and on The solar panel modules can be mounted at a range of angles, from 10 degrees to 60 degrees. Three different lengths of adjustable legs are available. The shortest leg provides a range of angles from 10 - 15 degrees; the mid-size leg provides a range of angles from 15 - 30 degrees and the longest length provides a range of 30 - 60 degrees.

The rails, tilt in modules, clamps and legs are Pre-assembled which makes for a quick and easy installation. The pre-cut rails eliminate on site welding and cutting resulting in superior structural strength and corrosion resistance.

### Features

**Easy Installation** The Tilt In Modules, Rails and Legs are Pre-assembled resulting in shorter installation times.

**Flexibility and Adjustment** The Tilt Racking System accommodates most commercially available framed and frameless solar panels and roof types.

**Safety & Reliability** The Tilt Racking System has been designed to withstand extreme weather conditions in accordance with EU,UL,JISC, AU/NZ and other international Standards

Specifications	
Installation	Flat profile roofs
Angle	10 to 60 degrees
Building Height	20 m max
Wind Speed	60 m/s max
Snow Load	2.4 kN/m2 max
Design Standards	EU,UL,JISC,AU/NZ and other international Standards
Material	Aluminium alloy and stainless steel
Colour	Natural
Surface Finish	Anodised
Warranty	10 years
Life	In excess of 20 years



### PT-KT-FL Adjustable Front Leg

**Material** Aluminium Grade Al 6005-T5  
A2-70 stainless steel bolts

**Colour** Natural

**Note** Box quantity 80



### PT-KT-BL Adjustable Rear Leg

**Material** Aluminium Grade Al 6005-T5  
A2-70 stainless steel bolts.

**Colour** Natural

Ordering Code	Description	Box Quantity
<b>PT-KT-BL10/15</b>	Adjustable Rear Leg 10-15 Degrees	20
<b>PT-KT-BL15/30</b>	Adjustable Rear Leg 15-30 Degrees	20
<b>PT-KT-BL30/60</b>	Adjustable Rear Leg 30-60 Degrees	20



PT-KT-BL 10/1



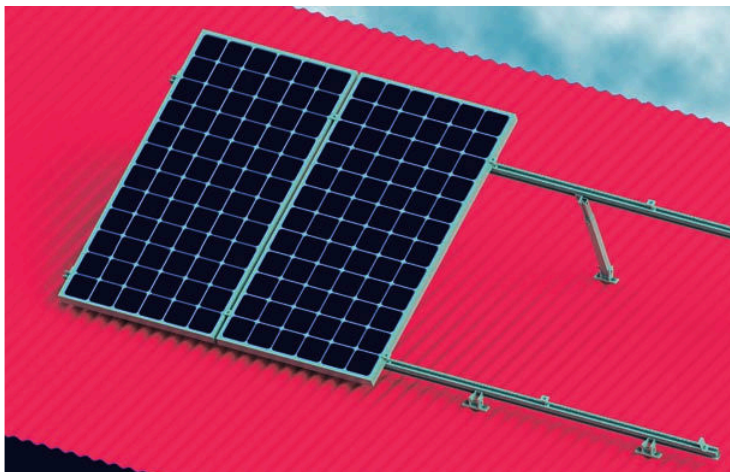
PT-KT-BL 15/30



PT-KT-BL 30/60



### Adjustable Tilt System



Solar Panel Dimensions	Rail	Legs	Inter Clamp	End Clamp	Rail Splice
1650 x 992 x 45	PT-1RXXX	PT-KT-FL PT-KT-BL	PT-IC-45	PT-EC-45	PT-1R-SP
Adjustable 10/15 3 Panel Installation	3405 mm 2 pcs	3	4	4	0
Adjustable 10/15 4 Panel Installation	4200 mm 2 pcs	4	6	4	0
Adjustable 10/15 8 Panel Installation	4200 mm 4 pcs	8	14	4	2

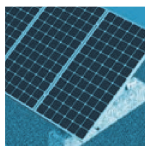
**Note** This layout is applicable to low snow loads and normal wind loads. Actual layout subject to Maximum Rail Support Spacing According to Wind Regions in chart 4

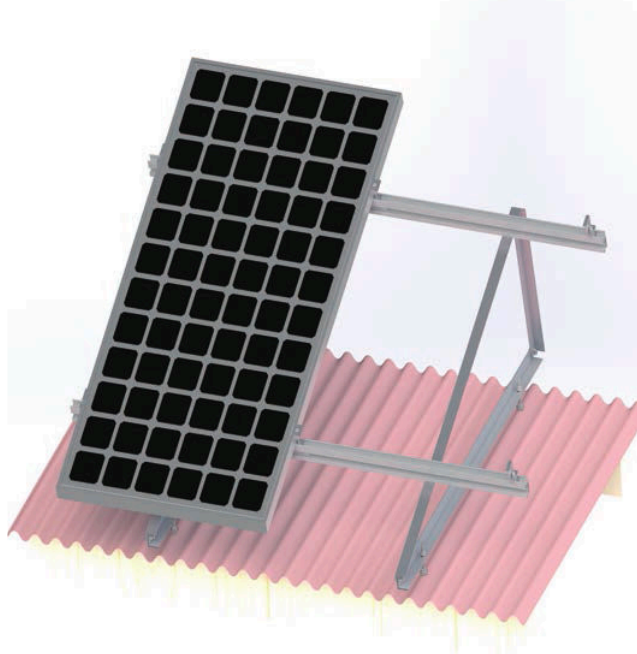


5



## Triangle Mounting System



**Ordering Code**

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**PT-FT-10**

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**PT-FT-20**

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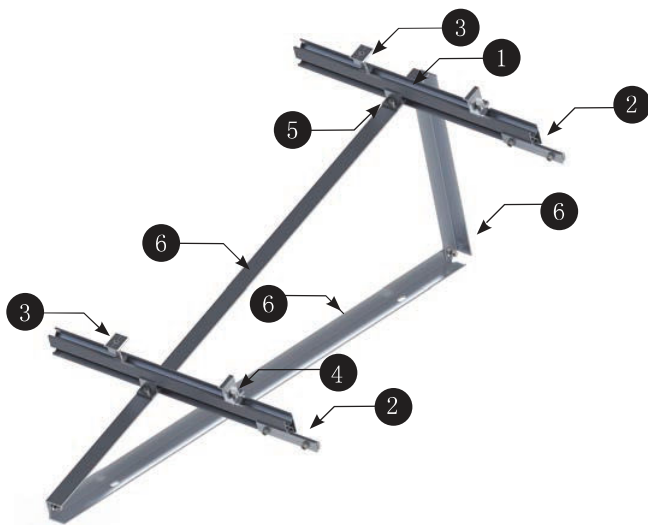
**PT-FT-30**

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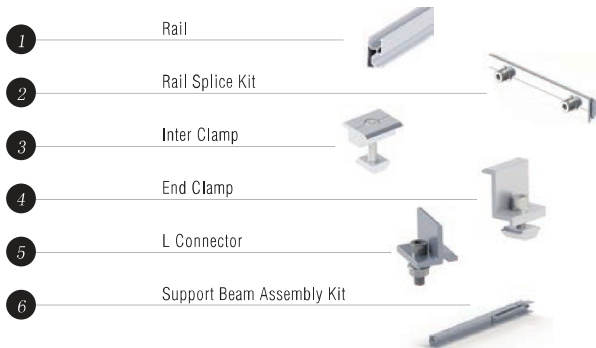
Note Sold in pairs

**Warranty**

10 year limited product warranty. Life in excess of 20 years.



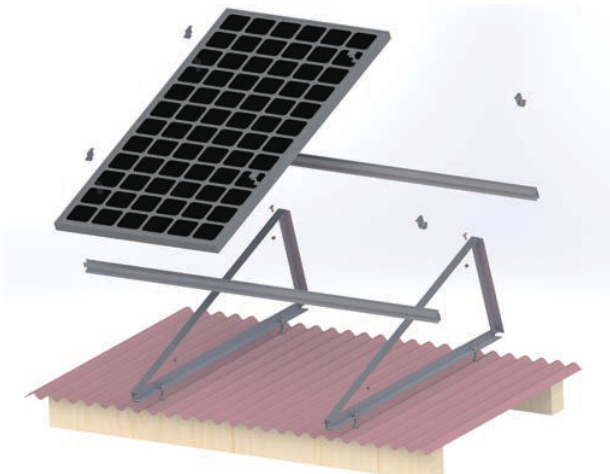
Component Number	Component Name
1	Rail
2	Rail Splice Kit
3	Inter Clamp
4	End Clamp
5	L Connector
6	Support Beam Assembly Kit







### Triangle Tilt System

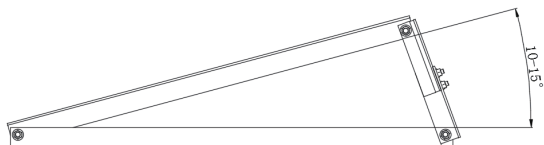


Solar Panel Dimensions	Rail	Adjustable Triangle Bracket 1#	Inter Clamp	End Clamp	Rail Splice
1580 x 808 x 45 or 1585 x 826 x 45	PT-1RXXX SIC46	PT-FT-10 PT-FT-20 PT-FT-30	PT-IC-F45	PT-EC-F45	PT-1R-SP
Fixed 30 deg 3 Panel Installation	2560 mm 2 pcs	2	4	4	0
Fixed 30 deg 4 Panel Installation	3405 mm 2 pcs	3	6	4	2

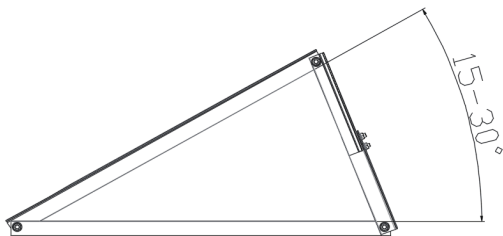
Note **Manufactured against firm orders only.**

### More options of Triangle Mounting System:

- Adjustable triangle

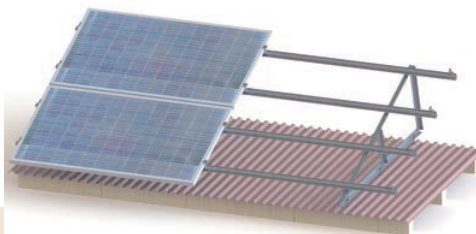


PT-FT10-15°



PT-FT15-30°

- Array by two rows



### Ordering Code

PT-FTD-10

PT-FTD-20

PT-FTD-30



# PT Open Terrain Mounting System Overview

## PT Open Terrain Mounting System Overview

Soil	Foudation Type	Product
Soft soils Installation sites with a low anchoring depth	Ground Screw	PSG Aluminium, PSG Steel, PSG3
Near-surface bedrock Block-like alteration zone	Pile-driving with pre-drilling	PSF Steel, PSF Aluminium, PSF3
Bedrock • Soils with little load-bearing capacity • Landfi II with very shallow anchoring depth • Landfi II sites with stone cover • Industrial wasteland with reinforced surface areas	Pre-cast concrete blocks Cast-in-place concrete	PSC Aluminum, PSC Steel, PSF Cast in
Soil with load bearing capacity	pile and ground screw	PSF Aluminium, PSF Steel, PSF3, PSG Aluminium , PSG Steel, PSG3
Soils that are suitable for pile-driving (grown, filled)	Pile	PSF Steel, PSF Aluminium, PSF3



## Ordering Process

### From Planning to Completion

#### Project Checklist

In order to provide accurate quotes quickly, PT has developed an easy-to-complete project checklist that can be obtained by email from any sales representative. While some off-the-shelf projects

While some off-the-shelf projects may not require it, the checklist is essential for custom-designed projects in order to ensure that the designs meet both code and customer expectations.

## Ordering Process

1. PT offers design services for mounting systems at no charge. When working with our sales and engineering departments, projects are generally handled as outlined below:

2. The project checklist is completed and submitted to technical sales. Technical sales creates an initial design and pricing then submits to customer as a formal offer or quote.

3. Once the offer is signed, any applicable geotechnical testing will be conducted.

4. The initial offer will be modified, if necessary, based on the results of geotechnical testing.

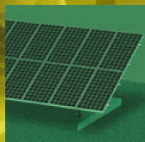
5. Project is manufactured and preassembled to exact specifications, and a delivery schedule is cooperated with the customers. necessary, based on the results of geotechnical testing.

6. Delivery of material, ready for quick installation.





# 6



Ground System  
PSG & PSC





### Introduction

The PSG Ground Mounting System is specifically designed for mounting a solar panel array on ground screws

### Features

**Easy Installation** Quick mounting by ground screws. A high level of pre-assembly allows quick installation.

**Flexibility and Adjustment** Flexible design of base and connectors allow for tolerance in installation

Specifications	
<b>Installation Type</b>	Open Terrain
<b>Inclination</b>	Up to 45°
<b>Wind Velocity</b>	70m/s
<b>Snow Load</b>	2.4kN/m <sup>2</sup>
<b>Design Standards</b>	EU, UL, JISC, AS/NZS
<b>Material</b>	Anodised aluminium, hot dip galvanised steel & stainless steel
<b>Panel Orientation</b>	Portrait&Landscape
<b>Warranty</b>	10 years
<b>Lifetime</b>	In excess of 25 years

### Low anchoring depth due to screw foundation



## 6.3 PSG Aluminum Ground Screw Driven System



### PSG Aluminum Ground Screw Driven System

**Material**     Aluminum Frame  
                     Hot Dip Galvanised Steel Ground Screw  
                     A2-70 Stainless Screws and Bolts

- Adjustment options to equalize ground unevennesses
- Low anchoring depth due to screw foundation
- Maximum structural safety and durability
- Especially for applications on landfill sites
- Simple deconstruction







### PSG Steel Ground Screw Driven System

**Material**     Aluminum Frame  
                      Hot Dip Galvanised Steel Ground Screw  
                      A2-70 Stainless Screws and Bolts

- Unbeatable product longevity and cost through economy of scale
- 100% galvanized steel mounting system
- High level of pre-fabrication for faster field installations
- Increased distances between foundation supports further aides in cost reduction
- Especially for applications on landfill sites





### Introduction

The PSC Ground Mounting System is specifically designed for mounting a solar panel array on concrete foundation

### Features

Concrete ballast ground mount system

Ideal for landfill sites, rocky terrain, and residential locations

No heavy machinery required

Both aluminum and steel structure at options

**Flexibility and Adjustment** Flexible design of base and connectors allow for tolerance in installation

**Note** All PSC Mounting Systems are manufactured against firm orders only

### Specifications

<b>Installation Type</b>	Open Terrain
<b>Inclination</b>	Up to 45°
<b>Wind Velocity</b>	70m/s
<b>Snow Load</b>	2.4kN/m <sup>2</sup>
<b>Design Standards</b>	EU, UL, JISC, AS/NZS
<b>Material</b>	Anodised aluminium, hot dip galvanised steel & stainless steel
<b>Panel Orientation</b>	Portrait & Landscape
<b>Warranty</b>	10 years
<b>Lifetime</b>	In excess of 25 years





### PSC Concrete Foundation Aluminum Mounting System

**Material**     Aluminum Frame  
                    A2-70 Stainless Screws and Bolts

Corrosion resistant,all-aluminum construction  
Short mounting time with partially pre-assembled support frames  
High level of factory pre-assembly  
Fully adjustable for a perfect straight installation

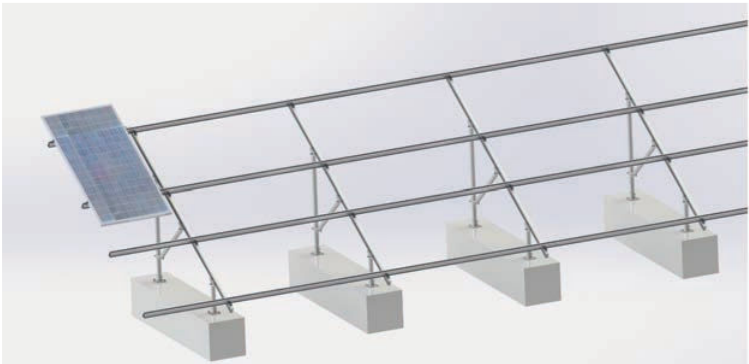


PSC Concrete Foundation Aluminum Mounting System

**PSC Concrete Foundation Steel Mounting System**

**Material**      Hot Dip Galvanised Steel  
                         A2-70 Stainless Screws and Bolts

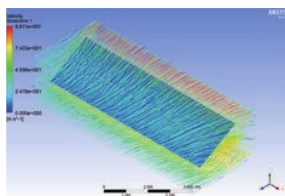
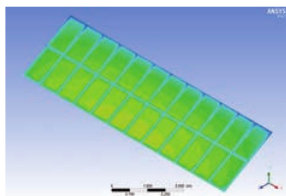
- Unbeatable product longevity and cost through economy of scale
- 100% galvanized steel mounting system
- High level of factory pre-assembly
- Fully adjustable for a perfect straight installation





### Optimization of Connections

- Optimized profile geometries, rationalized production
- Wider spans to reduce the number of supports and foundations
- Pre-assembled support kits
- Considerable minimization of the mounting effort
- Competitive price:performance ratio
- Attractive design





**Adapted to variable ground condition**





## Products Series

### Technical Data Sheet C Series

#### Basic Info

PSR-C 76x2000	PSR-C 76x1600	PSR-C 76x1200
Nominal length (mm) 2000	1600	1200
Tube diameter (mm) 76	76	76
Tube thickness(mm) 3, 3.5, 4	3,3.5,4	3,3.5,4
Helix diameter(mm) 96	96	96
Thread M12x45	M12x45	M12x45
Item number PSR-C-76X2000	PSR-C-76X1600	PSR-C-76X1200

#### Construction

With flange

Coating hot-dip galvanized

Continuous welded helix

According to DIN EN ISO 1461

#### Application

##### Sandy Soil, Clay Soil





## Products Series

### Technical Data Sheet C Series

#### Basic Info

PSR-C-2 76x2000	PSR-C-2 76x1600	PSR-C-2 76x1200
Nominal length (mm) 2000	1600	1200
Tube diameter (mm) 76	76	76
Tube thickness(mm) 3, 3.5, 4	3, 3.5, 4	3, 3.5, 4
Helix diameter(mm) 96	96	96
Item number PSR-C-76X2000-2	PSR-C-76X1600-2	PSR-C-76X1200-2

#### Construction

Without flange

Coating hot-dip galvanized

Continuous welded helix

According to DIN EN ISO 1461

#### Application

**Sandy Soil, Clay Soil**







## Products Series

### Technical Data Sheet L Series

#### Basic Info

PSR-L 76x2000	PSR-L 76x1600	PSR-L 76x1200
Nominal length (mm) 2000	1600	1200
Tube diameter (mm) 76	76	76
Tube thickness(mm) 3, 3.5, 4	3,3.5,4	3,3.5,4
Helix diameter(mm) 250	250	250
Item number PSR-L-76X2000	PSR-L-76X1600	PSR-L-76X1200

## Construction

With flange

Coating hot-dip galvanized

One helix

According to DIN EN ISO 1461

## Application

**Sandy Soil, Clay Soil**



GROUND SCREW



## Products Series

### Technical Data Sheet L Series

#### Basic Info

PSR-L-2 76x2000	PSR-L-2 76x1600	PSR-L-2 76x1200
Nominal length (mm) 2000	1600	1200
Tube diameter (mm) 76	76	76
Tube thickness(mm) 3, 3.5, 4	3, 3.5, 4	3, 3.5, 4
Helix diameter(mm) 176	176	176
Item number PSR-L-2-76X2000	PSR-L-2-76X1600-2	PSR-L-2-76X1200-2

#### Construction

With flange

Coating hot-dip galvanized

Two helix

According to DIN EN ISO 1461

#### Application

**Sandy Soil, Clay Soil**





## Products Series

### Technical Data Sheet L Series

#### Basic Info

PSR-L 76x1600	PSR-L 76X1200
Nominal length (mm) 1600	1200
Tube diameter (mm) 80	80
Tube thickness(mm) 3, 3.5, 4	3,3.5,4
Helix diameter(mm) 120	120
Item number PSR-L-76X1600	PSR-L-76X1200

#### Construction

With flange

Coating hot-dip galvanized

Continuous welded helix

According to DIN EN ISO 1461

#### Application

**Sandy Soil, Clay Soil**



GROUND SCREW



## Projects Reference





## 7.2 PSF Pile Driven Mounting System



### Pile System PSF1

**Sold in kits for wholesalers.  
Large Utility project can be  
designed specially.**





## installation

	installation
<b>Application</b>	Open terrain – ground mount
<b>PV modules</b>	Framed, unframed
<b>Module layout</b>	Single-row or multi-row, endless alignment
<b>Module orientation</b>	Portrait, landscape
<b>Module inclination</b>	Up to 60 degree
<b>Profile</b>	Extruded aluminium (AL 6005 T5) Hot dip galvanized Steel
<b>Pile</b>	Galvanised steel
<b>Hardware</b>	Stainless
<b>Pile spacing</b>	Depends on site condition, module type
<b>Standards</b>	IBC, Eurocode, ASCE, NBCC, OBC, JISC, AU/NZ and other international code
<b>Structural analysis</b>	Individual terrain structure analysis
<b>Surface finish</b>	anodizing aluminum in normal condition, electrophoresis aluminum in high salt content condition, hot dip galvanizing pile
<b>Warranty</b>	10 years



### PSF Pile Driven Grounding System





Aluminum PSF Pile Driven System



Steel PSF Pile Driven System

Extensive Flexibility  
Outstanding Adjustability

High Pre-assembly  
No Soil Sealing

Configuraton	Modules	Image
PSF 1 in Portrait	Framed and Unframed modules	
PSF 2 in Landscape	Framed and Unframed modules	





### Feature

Flexible in grounding condition, available for concrete, rammed and cast in foundation



PSF Pile Driven Mounting System

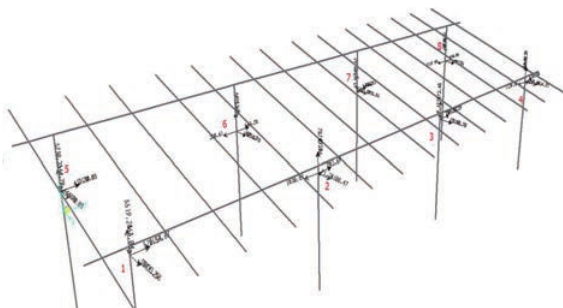
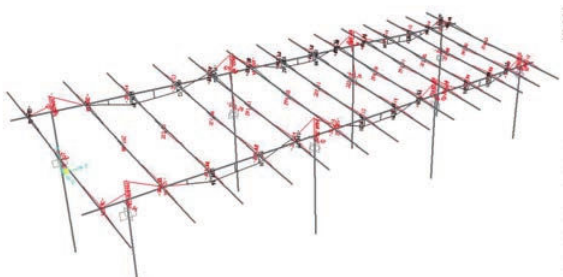
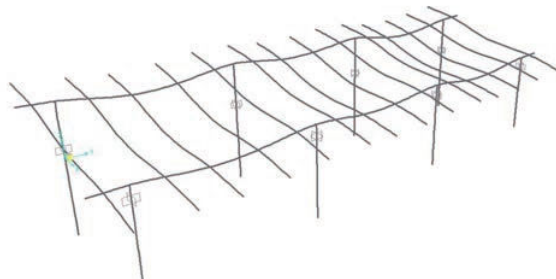
Industry leading installation times



## 7.6 PSF Pile Driven Mounting System



### Structure Analysis according to current national code







Ordering	Code	PSF 3
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**Fit your landscape,  
East-west, North-South Adjustment maximize  
installation tolerance**





## **PSF 3 Pile Drive System, Aluminum frame and steel pile**

**PSF 3 offers cost-down solution for thin film applications**

**Build a solar park with 6 components only**

**Allow Compensation for uneven ground**

**Pre-assembled parts ensure quick and efficient installation**



**Concrete, cast in and rammed foundation are at your opinions**

**High quality pile offers maximum soil anchoring strength**





### PT Slope Mounting System Advantage

No extra components required to cause extra installation cost  
East-west, South-North connectors allow compensation for uneven ground

### Application

Ground Screw, pile driven, concrete foundation and cast in foundation adapt to installation requirements

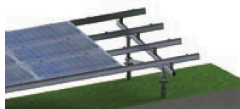
### Project Reference

Capacity: 1MW  
Installation Site:  
Hyou Ko ken Japan  
Installation  
date: March 2016

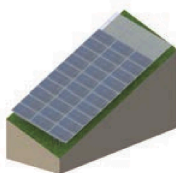




### Slope Mounting System Introduction



**PSG with east-west  
adjustment connectors**



**PSG3**



**PSF3**

Slope Solution Introduction

	PSG	PSG3	PSF3
<b>Foundation</b>	Ground Screw and Concrete	Ground Screw and Concrete	Pile Driven
<b>Installation</b>	Install longitudinal channel first	Transversal Setup, install transversal channel first then longitudinal channel	
<b>Adjustment Degree</b>	0-40°	0-40°	0-40°







### Projects Reference







8



Carport



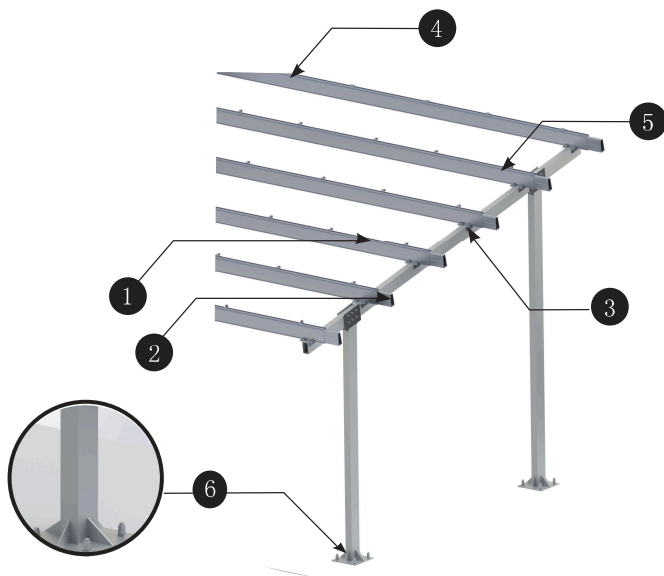


### Introduction

The Solar X-Carport System is a revolutionary system for mounting solar panels configured as carports.

Constructed of anodised aluminium ,galvanized steel and mounted on concrete footings, the Solar X-Carport System is strong, durable and attractive.

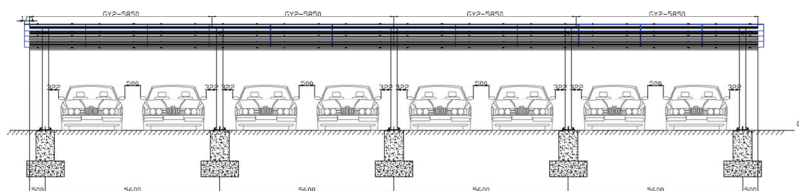
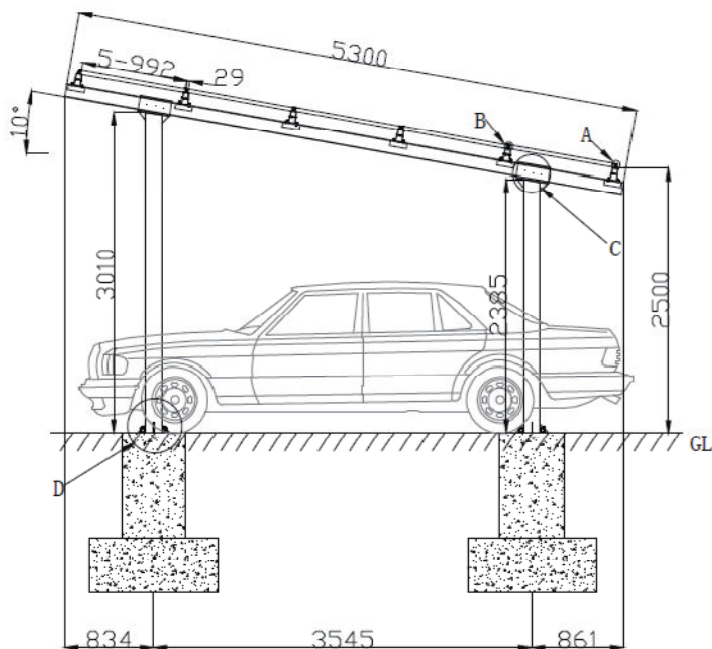


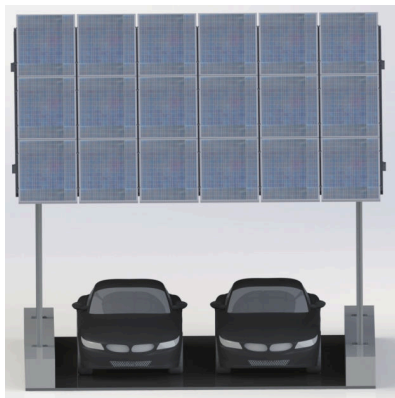


Number	Ordering Code	Name
1	PT-SF	Rail
2	PT-SF-SP	Rail Splice
3	PT-HX-ZL2	Beam
4	PT-IC-F40	Middle Clamp
5	PT-EC-F40	End Clamp
6	PT-ZC-Z	Leg&Base



### Double Legs





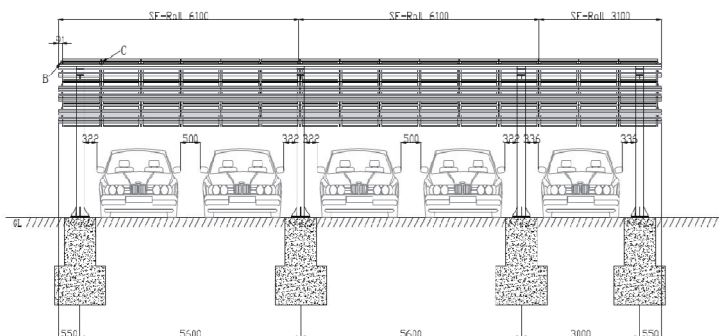
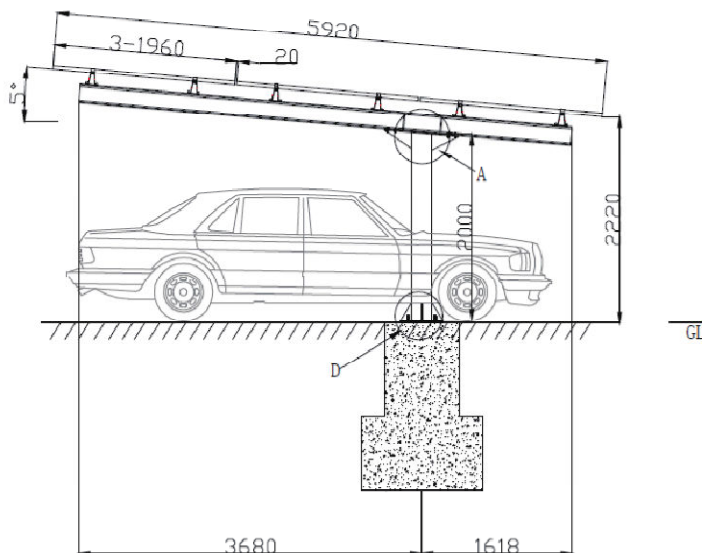
### PT Carport Double Legs

<b>Solar Panel Dimensions</b>	1970 x 992 mm
<b>Roof Inclination</b>	10 degree
<b>Span</b>	5600mm
<b>Panel Array</b>	3x6
<b>Wind Velocity</b>	60 metres per sec
<b>Panel Orientation</b>	Portrait
<b>Flood Height</b>	2500mm

Ordering Code	Component	Dimension	Quantity
<b>PT-S F-R</b>	Rail	3100 mm	6
<b>PT-S F-R</b>	Rail	6100 mm	12
<b>PT-S F-SP</b>	Rail Splice		12
<b>PT-HL-C60-D</b>	Rail Clamp		96
<b>PT-I C-F40</b>	Middle Clamp		84
<b>PT-E C-F40</b>	End Clamp		12
<b>PT-HX-ZL2</b>	Beam	5300 mm	4
<b>PT-Z C-Z</b>	Leg&Base	2000 mm	4



## Single Leg





Single Le	
Solar Panel Dimensions	1960 x 992 mm
Roof Inclination	20 degree
Span	5600 mm
Panel Array	3x25
Panel Orientation	Landscape
Flood Height	2220 mm

Ordering Code	Component	Dimension	Quantity
PT-GY2-R	Rail	5850 mm	24
PT-GY2-SP	Rail Splice		18
PT-HL-C60-D	Rail Clamp		120
PT-IC-F40	Middle Clamp		96
PT-EC-F40	End Clamp		48
PT-YB-ZL	Beam	5300 mm	5
PT-ZC-Z	Leg&Base	3010 mm	5
PT-ZC-Z	Leg&Base	2385 mm	5

## 9.1 Floating Mounting System



### Introduction

PT Floating Mounting System is specifically designed for mounting solar panels on lake and pool.

### Features

Degree Adjustment  
Flexible design of structure allow for degree adjustment

### Easy Installation

A high level of pre-assembly allows quick installation

Specifications	
<b>Installation Type</b>	Lake and Pool
<b>Inclination</b>	Up to 45°
<b>Wind Velocity</b>	70m/s
<b>Snow Load</b>	2.4kN/m <sup>2</sup>
<b>Design Standards</b>	EU,UL,JISC,AS/NZS
<b>Material</b>	Anodised aluminium, hot dip galvanised steel & stainless steel ,PE , EPS
<b>Panel Orientation</b>	Portrait&Landscape
<b>Warranty</b>	10 years
<b>Lifetime</b>	In excess of 25 years

