



eco-Solarmount PV Mounting System



New eco-Solarmount PV Mounting System

eco-Kinetics is proud to announce the release of its next generation eco-Solarmount PV Array Mounting System. This system is designed to dramatically increase the ease and speed of installation and will accommodate most Photovoltaic Modules in the Australian market.

- Designed in Australia by solar industry professionals.
- New design features include side mounted rail for rapid installation with power tools, pre-assembled clamps with T-nuts and in-built cable trays.
- Suitable for most Monocrystalline and Amorphous Thin Film PV Modules. Call us to confirm availability or discuss customised options.
- eco-Solarmount PV Mounting System is designed to AS1170.2.
- Mount systems available to accommodate PV Module heights of 35, 46, 50 & 58mm.
- Mount systems available to suit Tile, Colorbond and Kliplok roofs.
- Tilt frame available for all roof surfaces, flat or inclined.
- Manufactured from Building & Construction grade aluminium and stainless steel fastening components.
- Modular system that accommodates varying system sizes and layouts.



Step-by-Step Installation

Standard North facing roof configurations

Tin/Colourbond Roof



STEP 1
Fix roof base plate with mount rail bracket to baton, truss or rafter



STEP 2
Fix all roof base plates and ensure alignment over complete length



STEP 3
Fit T-bolt head through bracket slot



STEP 4
Fixing the mount rail to the bracket



STEP 5
Fix panels using end and mid clamps. Fit T-nut and tighten to engage



STEP 6
Complete installation of all panels

Tile Roof



STEP 1
Fix roof base plate with mount rail bracket to baton, truss or rafter



STEP 2
Fix all roof base plates and ensure alignment over complete length



STEP 3
Fit T-bolt head through bracket slot



STEP 4
Fixing the mount rail to the bracket



STEP 5
Fix panels using end and mid clamps. Fit T-nut and tighten to engage



STEP 6
Complete installation of all panels

Kliplok Roof with Tilt Frame



STEP 1
Fix roof base plate with mount rail bracket to baton, truss or rafter



STEP 2
Fix tilt arms to base plate brackets



STEP 3
Fix turnpike to arm



STEP 4
Fix mount rail to turnpikes



STEP 5
Fix panels using end and mid clamps. Fit T-nut and tighten to engage



STEP 6
Complete installation of all panels

NOTES

STEP 1
Rubber isolators included for aluminium to steel contact.
Tiled roofs may require a spacer to adjust base plate height.

STEP 2
Mounting system is designed for all roof surfaces and maybe split to accommodate different panel configurations.

STEP 3
Brackets designed for speed of assembly with side mounting of rail and use of drills to tighten nuts.

STEP 4
Mount rail fixed with a simple quarter turn of T-bolt head to engage and use drill to tighten. T-bolt and nut come pre-assembled.

STEP 5
Mount kits come complete with all components including pre-assembled end and mid clamps with bolts and nuts.

STEP 6
Mount kits can be customized to accommodate different panel heights and system sizes.

East and West facing roofs when a Northerly orientation is required

Colourbond Roof with Tilt Frame



STEP 1

Fix roof base plate and mount rail bracket



STEP 2

Fix tilt arms to base plate brackets



STEP 3

Fit turnpike to tilt arm for mount rail attachment



STEP 4

Fit mount rail to turnpike with T-bolt



STEP 5

Fix panels using end and mid clamps. Fit T-nut and tighten to engage



STEP 6

Complete installation of all panels

Tile Roof with Tilt Frame



STEP 1

Fix roof base plate and mount rail bracket



STEP 2

Fix tilt arms to base plate brackets



STEP 3

Fit turnpike to tilt arm for mount rail attachment



STEP 4

Fit mount rail to turnpike with T-bolt



STEP 5

Fix panels using end and mid clamps. Fit T-nut and tighten to engage



STEP 6

Complete installation of all panels

Additional Features



Flush, low impact appearance.



Tilt frame for east - west facing roofs attaches directly to bracket to achieve northerly orientation.



Turnpike can rotate to ensure northerly orientation of panels regardless of roof orientation.



Mount rail possesses an in-built cable run.



Cavity included for lead connectors.

PV Mounting System

Kit Information Sheet

Kit Comprises:

- Mounting Rails
 - Mid Clamps
 - End Clamps
 - Stainless Steel Hexagon Set Bolts
 - T-Nuts
 - Stainless Steel Nylock Nuts
 - Stainless Steel M8 Washers
 - T-Bolts
 - Roofing Screws
 - Rubber Matting
 - Tile, Corrugated or Kliplok Base Plates and Brackets
- Kits available for 4x, 6x and 9x PV panel configurations.**



MOUNTING RAIL

Length: 4.2 / 5.1 / 5.8m
Height: 60mm
Width: 27mm



KLIPOK BASE PLATE

Height: 35mm
Width: 255mm
Depth: 63mm



CORRUGATED BASE PLATE

Height: 35mm
Width: 110mm
Depth: 63mm



TILE BASE PLATE

Height: 35mm
Width: 140mm
Depth: 63mm



TILE BRACKET

Height: 135mm
Width: 40mm
Depth: 138mm



CORRUGATED BRACKET

Height: 88mm
Width: 40mm
Depth: 25mm



KLIPOK BASE PLATE WITH BRACKET ASSEMBLY



END CLAMP

Panel Height	Height	Width	Depth	Bolt Length
35mm	38mm	50mm	27mm	40mm
46mm	49mm	50mm	27mm	50mm
50mm	53mm	50mm	27mm	50mm
57.5mm	60.5mm	50mm	27mm	65mm



MIDDLE CLAMP

Height: 15mm
Width: 50mm
Depth: 63mm



ROOFING SCREW

Corrugated & Tile: 14G x 75mm
Kliplok: 14G x 100mm



T-BOLT & NYLOCK NUT

Length: 25mm
Dia.: 7.5mm
Nut Head Dia.: 12.5mm



STAINLESS STEEL HEXAGON SET BOLT & T-NUT

Length: 40, 50 & 65mm
Dia.: 7.5mm

PLEASE NOTE: Items shown are not to scale.



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