

Redilight Installation Guide



Table Of Contents

Components and Video Instructions.....	Page 2
Installation Tools Required.....	Page 3
Solar Panel Installation Tile Roof.....	Page 4
Solar Panel Installation Metal Roof.....	Page 7
Mounting The Skyfixture.....	Page 9
Connecting The Redilight Driver.....	Page 10
Redilight Warranty Policy.....	Page 11

Did you know?

Unlike many companies that start in a boardroom, Redilight was founded by a group of Australian electricians.

They were tired of seeing traditional skylights leak or being impossible to install in multi-story homes, so they used their "on-the-job" experience to build from the ground up a better alternative. The Redilight Skylight Alternative!

Standard Mounting Brackets

Redilight offers a Green Energy Solution for light starved areas around the home or office.

It operates on a sun-up, sun-down effect. As the sun rises the light gets brighter towards the middle of the day then later in the afternoon as the light intensity will reduce until the sun sets then the light will be of.

Kit Components

- A** 1x Redilight Solar Panel
- B** Redilight Skyfixture
- C** 10m of twin DC solar cable
- D** 4x solar panel mounting brackets (metal or tile)
- E** 1x rubber cable flashing for metal roof
- F** 4x 25mm hex head type 17 (For metal roof)
- G** 4x 15mm hex head SDS
- H** 4x 25mm hex head T17 (For tile roof)
- I** 4x rubber pads for metal roof brackets
- J** 1x sticker to be placed in Electrical meter box

Video Instructions

Tile roofs



Metal roofs



Helpful Hints When Installing Solar Panels

- When determining a suitable location for the solar panel a northerly aspect is beneficial.
- Be mindful of potential shading from larger objects over the course of the day.
- ALWAYS adhere to local safety guidelines whenever working at height. A safety harness may be required.
- Visit www.redilight.com for installation videos.



Solar Panel Installation Tools Required

Solar Panel Installation

Drill/Driver: A cordless drill is essential for driving the tech screws into roof battens or rafters.

Driver Bits: Hex Socket Bit 3/8: For the hex head roofing/mounting screws.

10mm Drill Bit: To create a hole in the roof for the DC cable to pass through.

Hammer: Useful for gently tapping tile brackets to suit the shape of your tiles.

Angle Grinder? (Tile Roofs only): You may need to trim a small notch in the underside of a tile so it sits flush over the mounting bracket.

Caulking Gun & Roof Silicone: To seal the cable entry point and the rubber flashing (Dektite) to ensure it's 100% waterproof. It can also be used on the tile brackets for a better fitment.

Skyfixture Installation

Hole Saw/Gyroprock Saw: To cut the circular or square hole in your plasterboard ceiling. (Check your specific model for the cutout size.)

Measuring Tape & Pencil: To mark the center of the light and ensure you aren't cutting into a ceiling joist.

Wire Strippers: To trim the 10m DC cable if required prepare the ends for the driver connection.

Small Flat-head Screwdriver: For the terminal blocks on the light driver.

Safety Gear

Ladder: Stable and tall enough to safely access your roof.

Safety Harness: Highly recommended if you are working on a steep pitch or high roof.

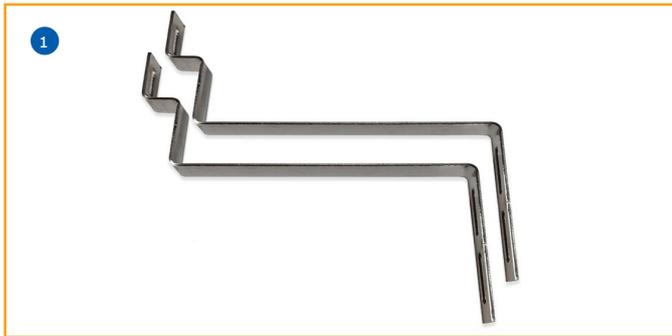
Gloves & Eye Protection: Especially when drilling into metal or cutting plasterboard.

ALWAYS adhere to local safety guidelines whenever working at height.

A safety harness may be required.

Solar Panel Installation (Tile Roof)

Tile Roof Bracket Fixing

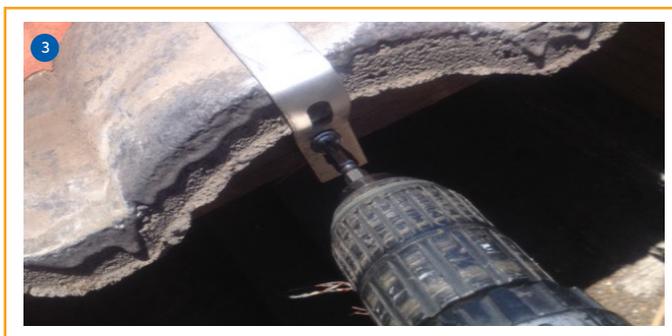


1. Mount the bottom brackets first.

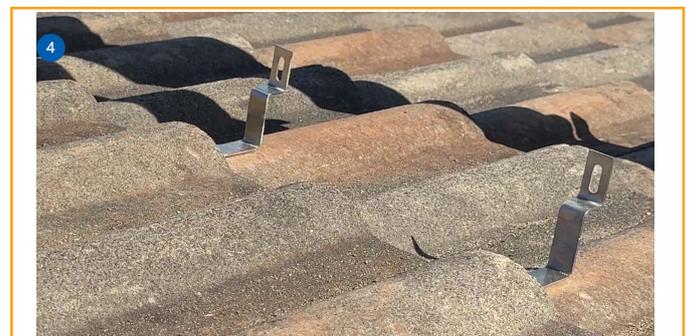


2. Push up two tiles to provide access to the timber batten below then position both bottom brackets on the high ridges of the tile.

- *Tip: Before securing bracket to timber batten, gently tap bracket with a hammer to help mold around the tile and against the timber batten, this will help when screwing bracket to batten.*



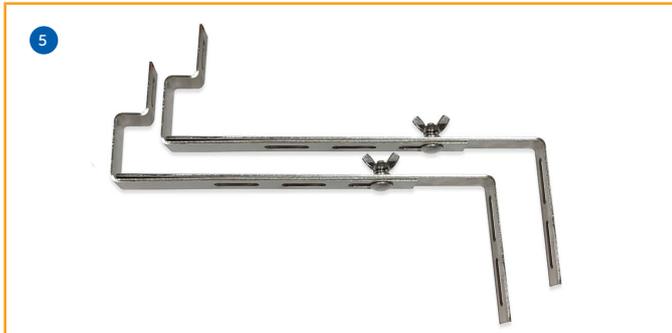
3. With screws provided (H) (2x 25mm hex head T17) screw each bracket into the timber batten until firm.



4. Once both brackets are secured return the tiles back to their original position.

Solar Panel Installation (Tile Roof - cont.)

Mounting the top adjustable brackets:



5. These are an adjustable 2 piece bracket with locking nuts.



6. Place solar panel on the installed bottom brackets to get a measurement for the top bracket, then push 2 tiles up to gain access to the timber batten underneath.



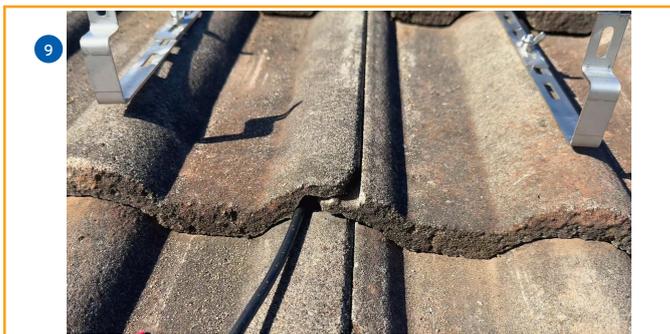
7. With screws provided (H) (2x 25mm hex head T17) screw each bracket into the timber batten until firm in the same manner as the bottom bracket.



8. Once both brackets are secured return the tiles back to their original position.

Sending cable into roof cavity

- Push the cable between tiles (Fig 9, 10) into roof cavity then run towards light fitting for connection into light driver.



Secure Solar Panel to Brackets



11. Adjust top 2 brackets to solar panel and fix with self drilling screws supplied (G) 4x 15mm hex head SDS.



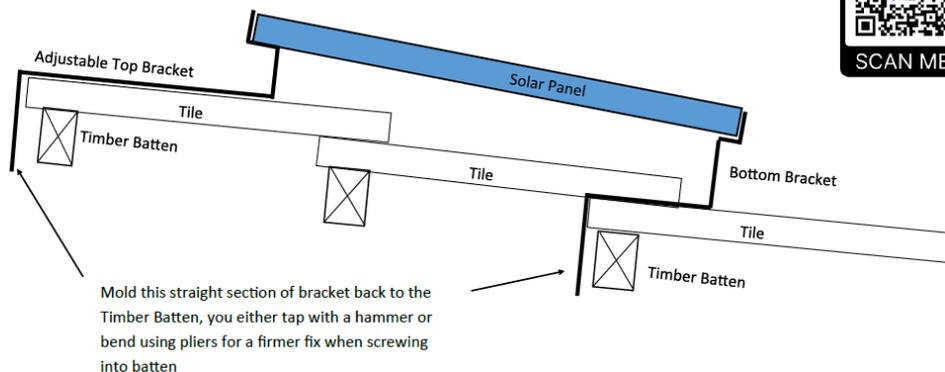
12. Fix bottom 2 brackets in the same manner.

Once solar panel is secured to all 4 brackets tighten the locking wings nuts on the top two brackets to complete.



Tip: Place a generous dab of silicon under top two brackets for a more secure fix to tile

Side Profile Example:



Watch How to install



Solar Panel Installation (Metal Roof)

- Using two existing roofing screws, place the bottom two brackets (D) approx 400mm apart depending on where existing screws are.
- Place rubber pad (I) under each bracket then screw brackets down with existing roofing screws back into roof batten for a solid fixing.



Positioning top 2 brackets

Place solar panel on the bottom brackets so as to get a measurement for the top 2 brackets then repeat step 2 for mounting the top two brackets



If existing roofing screws are not available then use the hexhead roofing screws (F) provided.



Solar Panel Installation (Metal Roof - con't)



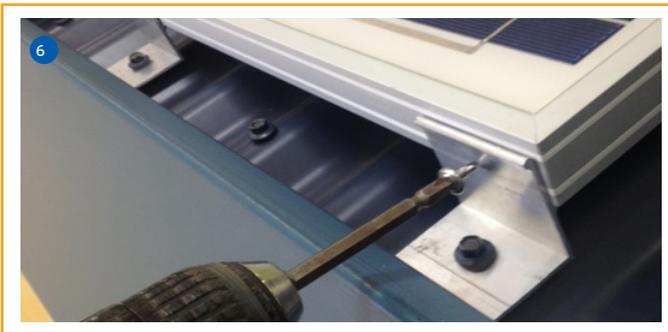
4. Before securing solar panel to brackets, drill a 10mm hole through a high rib on the roof sheet (preferably under solar panel) - this is for the DC cable to go through and into the ceiling cavity.



5. Push cable through the supplied rubber flashing first then place a generous amount of roof silicon in and around the hole and under rubber flashing

Then using screws provided, screw rubber flashing to roof sheet.

Securing Solar Panel to Brackets



6. Place solar panel on all 4 brackets and use the 4 self drilling screws (G) (4x 15mm hex head SDS) to attach.

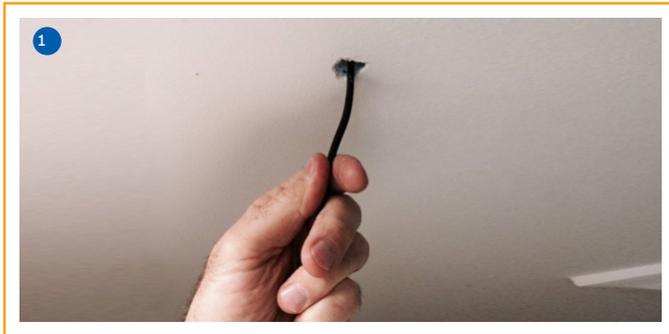
Caution: Take care not to drill into the solar panel glass.

Running Solar Cable to lights

- Always follow electrical wiring standards applicable to your location.
- Route the DC cable (C) from your solar panel through the roof cavity to the location where the Redilight Skyfixture is and connect to light driver.

Mounting the Skyfixture

Slimline surface Skyfixture



1. Once the location for the light fitting is established, create a 20mm hole to allow the light fitting plug cable to pass through for connection to the Redilight driver which is located in the ceiling cavity.



2. Mount the light fitting to the ceiling using three screws for a secure fix. Be careful not to damage the LED plate when mounting.



3. Now fit the diffuser by simply aligning the three slots and turn anti-clockwise (approx 1/4 turn) until firm and tight.

Recessed Skyfixture

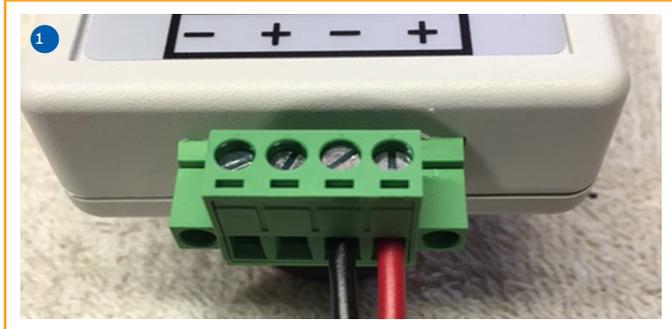


1. Cut a hole in the ceiling while being mindful to avoid and building structure or services.



2. Pull back the 3 spring clips on the Skyfixture and gently fit into the hole then allow the clips to spring back against the top side of ceiling to secure the downlight to the ceiling.

Connecting the Redilight driver



1. Terminate solar panel cable into green plug on driver. Red wire is positive (+) and black wire to the negative (-)

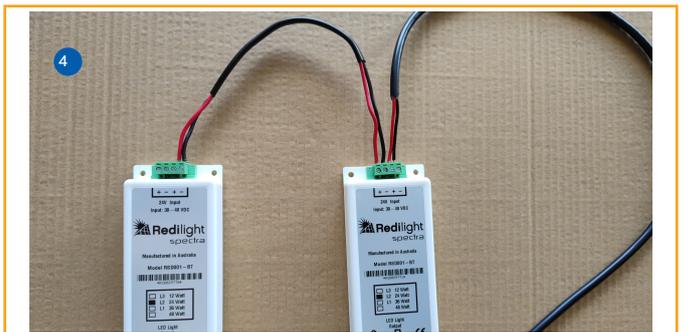
Caution: Please take care that no stray wire strands are sticking out and touching as this will create a short circuit.



2. Once solar panel connection is complete, plug in the light fitting connector. (Note: If no lights come on once connection is complete then check polarity.)



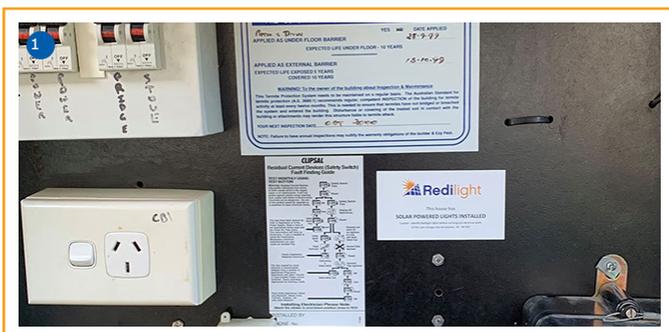
3. Do not cover the driver with insulation. Best practice is to be mount driver to building frame above insulation line.



4. A secondary light driver can be daisy chained from an existing light driver if necessary. Utilise the secondary terminal points on the existing light driver and connect to the secondary light driver using the solar cable.

Tip: If more than two lights are to be connected it is beneficial to create a central connection point then run a cable to each light.

Meter box sticker



1. Adhere the meter box sticker inside your electrical meter box.

Redilight Warranty Policy

Thank you for choosing Redilight Products. In order to guard both seller and buyer interests, Warranty Terms and Conditions are specified by Redilight below. This Warranty applies to Redilight Products only sold by authorised Redilight dealers.

In addition to guarantees afforded under Australia Consumer Law we provide a warranty of:

- 7 year warranty on Redilight LED light fittings (Skyfixtures).
- 5 year warranty on Redilight 'SPECTRA' and 'ORSOM' Drivers.
- 5 year warranty on all Redilight approved parts and accessories.
- 12 month warranty on Redilight remote control handset.
- Solar Panels - 5 year warranty on materials and workmanship, 10 years 90% of rated output, 25 years 80% power output.

The warranty period starts from the date of the purchase of the Product. Redilight warrants that each product will be free from defects in material and workmanship. If a product fails to operate, Redilight shall provide free replacement of the failed product subject to the warranty policy and limited warranty terms and conditions set forth below.

- 1) The limited warranty only applies when the product has been properly wired, installed and operated within the electrical values, operating range, environmental conditions provided in the product specifications, application guidelines and other document provided by Redilight.
- 2) The limited warranty is void if the product is not used for the purpose for which it has been designed.
- 3) The limited warranty is void if any external products that are not approved by Redilight are used in conjunction with the Redilight system.
- 4) This warranty does not apply to damages or defects arising as a result of abuse, improper power supply, misuse, abnormal use or use in violation of any applicable standard, code and instructions.
- 5) The warranty shall be void in the event of any repairs or alterations made to the product by any person not duly authorised by Redilight in writing.
- 6) If the Product is purchased from a Redilight authorised dealer, the Warranty claim must be reported to the Redilight authorised dealer (the original place of purchase) first.

All warranty periods mentioned are subject to a Redilight representative having access to the failed products or systems for verification. Warranty Claims must be reported to Redilight or a Redilight authorised dealer within 30 days after the discovery, specifying at least the following information:

- Detailed problem descriptions which includes photo, video (on request) or other proofs i.e. Invoice, application and operating environment.

Where the Warranty Claim is justified, Redilight shall repair or replace the failed product. Redilight is not responsible for any freight costs incurred. For purpose of clarity, the replacement or repair of the faulty product does not include removal and/or re-installation expenses.