

Standard Mounting Brackets

Redilight SPECTRA offers a Green Energy Solution for light starved areas in 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. The light intensity reduces as the sun sets in the afternoon.

Note: Optional Day/Night kits available for night time use.

Kit Components

- A** 1x solar panel
- B** Redilight light fitting (Skyfixture)
- C** 10m of twin DC solar cable
- D** 4x solar panel mounting brackets (metal or tile)
- E** 1x rubber flashing for metal roof
- F** 4x 25mm hex head type 17 (metal)
- G** 4x 12mm button head SDS
- H** 4x 25mm hex head T17 (tile)
- I** 4x rubber washes for metal roof
- J** 1x sticker to be placed in meter box

Video Instructions

Tile roofs

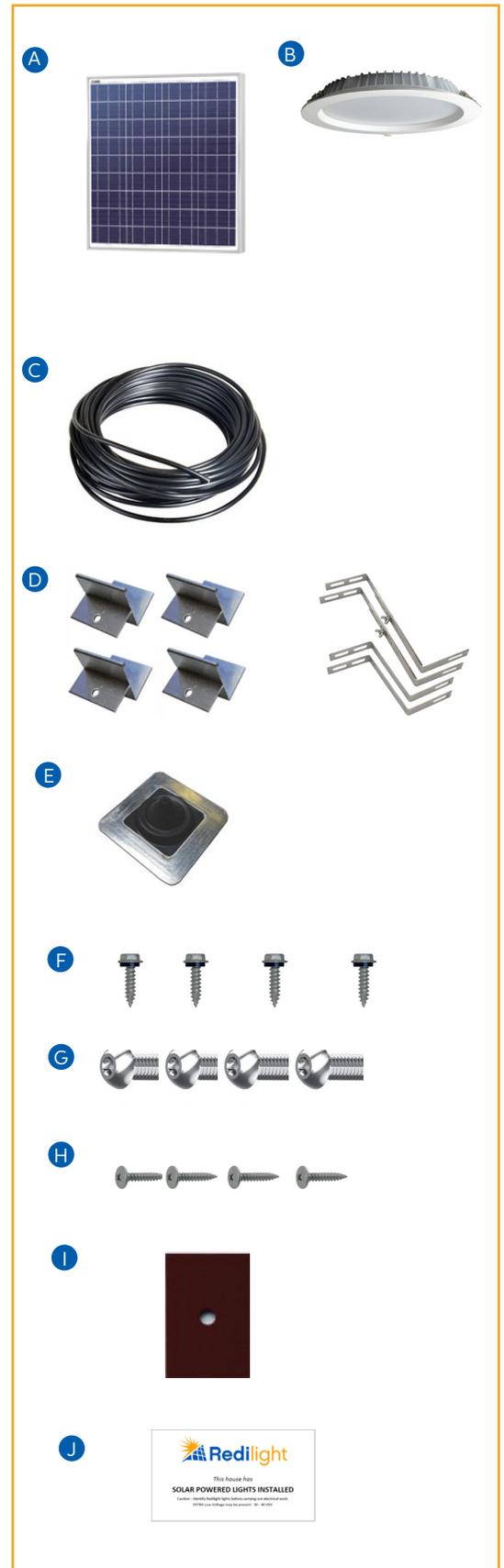


Metal roofs



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.

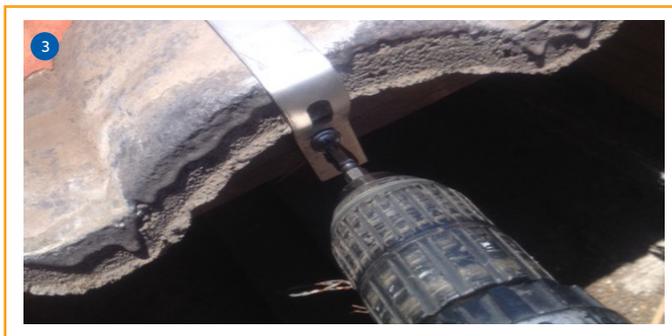


Solar Panel Installation (Tile Roof)

Tile Roof Bracket Fixing

Mounting the bottom brackets:

- Push up two tiles to provide access to the timber batten below (Fig 2)
- Position both bottom brackets (Fig 1) on the high ridges of the tile (Fig 2)
- With screws provided (H) screw each bracket into the timber batten until firm. (Fig 3)
- Once both brackets are secured return the removed tiles to their original position (Fig 4)



Tip: Before screwing bracket, tap bracket with a hammer to help mould around the tile and against the timber batten, this will help when screwing bracket to batten.

Mounting the top brackets:

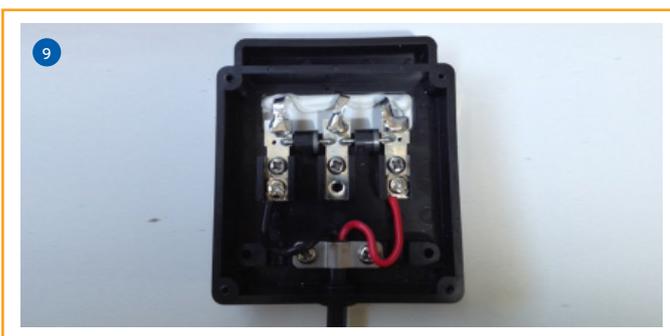
- Select top brackets, these are an adjustable 2 piece bracket with locking nut. (Fig 5)
- Place solar panel against the installed bottom brackets so as to get a measurement for the top bracket, then push 2 tiles up to gain access to the timber batten below (Fig 6)
- With screws provided (H) screw each bracket into the timber batten until firm in the same manner as the bottom bracket. (Fig 7)
- Once both brackets are secured return the removed tiles to their original position (Fig 8)

Solar Panel Installation (Tile Roof - cont.)



Connect DC Cable to Solar Panel

- Turn solar panel over and unscrew cover on black junction box and connect the red and black wires. The red wire connects to the positive (+), and black wire to the negative (-) as shown in (Fig 9)
- Push the other end of cable between tiles and into roof cavity, then run the cable in the roof cavity towards light fitting for connection. (Fig 10)



Secure Solar Panel to Brackets

- Adjust top 2 brackets to solar panel and fix with self drilling screws supplied (G) (Fig 11)
- Fix bottom 2 brackets to solar panel in the same manner (Fig 12)
- Once solar panel is secured to all 4 brackets tighten the locking wings nuts on the top two brackets to complete (Fig 13)



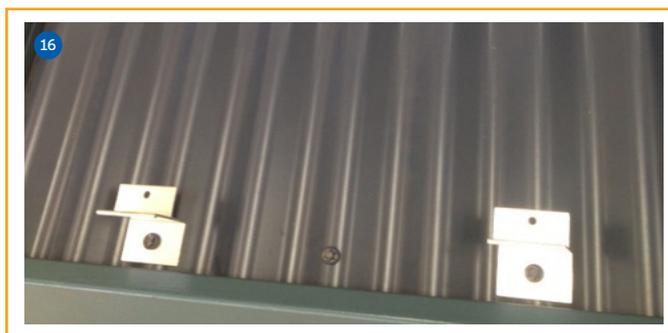
Solar Panel Installation (Metal Roof)

Positioning bottom 2 brackets

- Using two existing roofing screws, place the bottom two brackets (D) approx 400mm apart depending on where existing screws are.
- Place rubber washer (I) under each bracket then screw brackets down with existing roofing screws back into roof batten for a solid fixing (Fig 14)
- If existing roofing screws are not available then use the hexhead roofing screws (F) provided.

Positioning top 2 brackets

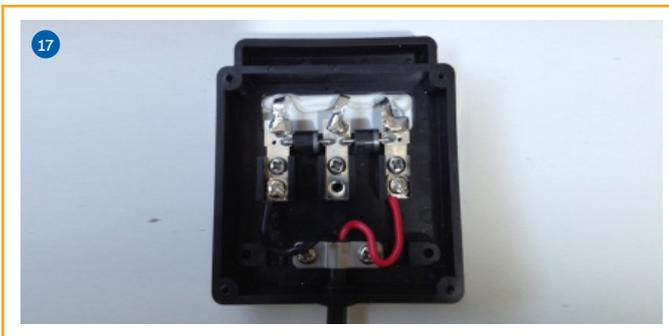
- Place solar panel on the bottom brackets so as to get a measurement for the top 2 brackets then repeat step 2 for mounting the top two brackets (Fig 15 & 16)



Solar Panel Installation (Metal Roof - cont)

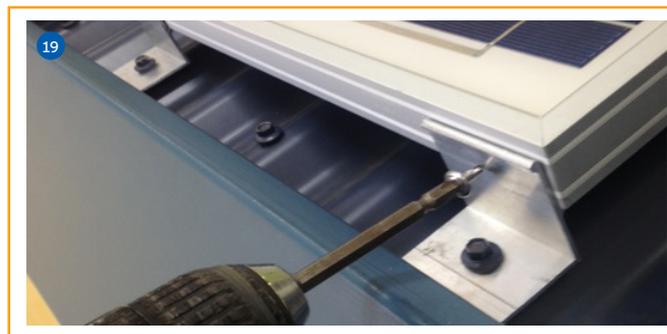
Connect DC Cable to Solar Panel

- Turn solar panel over and unscrew cover on black junction box and connect the red and black wires. The red wire connects to the positive (+), and the black wire to the negative (-) as shown in (Fig 17)
- Before mounting solar panels 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.
- Push cable through rubber flashing first then place a generous amount of roof silicon in and around the hole and under rubber flashing
- then using 4 screws supplied, screw rubber flashing to roof sheet. (Fig 18)



Securing Solar Panel to Brackets

- Place solar panel on the 4 brackets and use the 4 self drilling screws (G) to attach the panel (Fig 19)
- Caution: Take care not to drill into the solar panel glass.



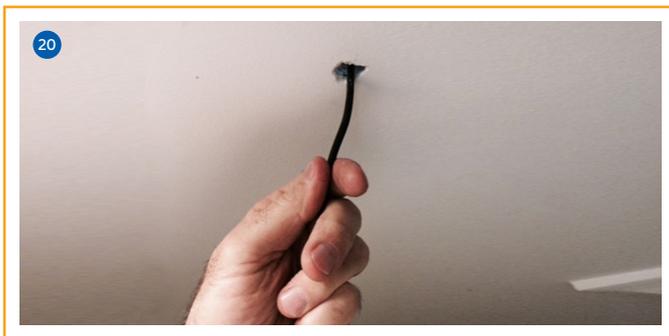
Connect DC Cable to Solar Panel

- 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 fitting is to be installed.
- Tip: If installing two lights that are opposite ends of the building it is beneficial to create a central junction point between both lights to alleviate any light differential.

Mounting the light fixture

24 watt slimline surface light fitting

- Once the location for the light fitting is established, centrally create a 20mm hole to allow the light fitting plug & cable to pass through (Fig 20) for connection to the Redilight driver which is located in the ceiling cavity.
- Mount the light fitting to the ceiling (Fig 21) using three screws for a secure fix. Be careful not to damage the LED plate when mounting.
- Now fit the diffuser by simply aligning the three slots and turn anti-clockwise (approx 1/4 turn) until firm and tight (Fig 22).
- Proceed to connecting the driver



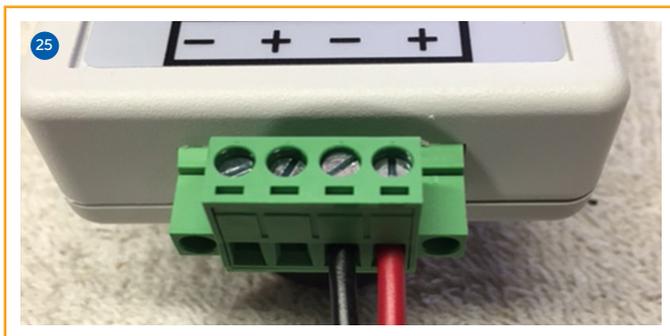
24 watt recessed light fitting

- Cut a hole in the ceiling while being mindful to avoid any building structure or services (Fig 23)
- Pull back the 3 spring clips on the downlight (Fig 24) 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.
- Proceed to connecting the driver



Connecting the Redilight driver

- Connect the solar panel cable to the green plug on the Redilight driver (Fig 25) The red wire connects to positive (+) and the black wire to the negative (-) .
- Once solar panel connection is complete, plug in the light fitting connector (Fig 26) (Note: If no lights come on once connection is complete then check polarity.)
- Do not cover the driver with insulation. Best practice is to be mount driver to building frame (Fig 27) above insulation line.



- A secondary light driver can be daisy-chained from an existing light driver if necessary.
- Utilise the secondary terminal points (Fig 25) on the existing light driver and connect to the secondary light driver using the solar cable.
- Do not daisy chain more than three (3) drivers in any sequence.

Meter box sticker

- Adhere the meter box sticker inside your electrical meter box. (Fig 28)



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.