Installation instructions – Tiled Roof

1. Remove flashing from housing.

2. Locate a suitable position for the Solar Whiz. i.e. Free of shading and normally high and central on the roof for optimal performance
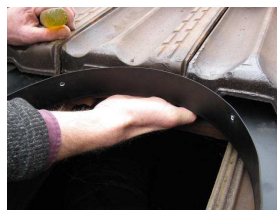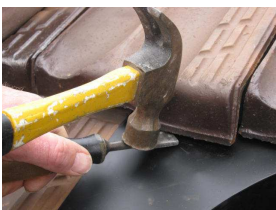
3. Once the position has been determined (it may be worth moving one tile to either side to avoid battens). You may cut out a part of a tile on one side.

4. Put the flashing in place

5. Shape flashing to follow tile profile using tools and/or hands.

6. Lift flashing up underneath the tile using the hand to ensure wind driven rain cannot make its way up under the tile above the flashing.

7 Fold the flashing over the lower edge of tiles using a straight edge—e.g. Timber or a spirit level. **Trick:** Make a 10 mm cut from edge of flashing to make it easier to fold the flashing over the edge of the tile.

8. Shape sides of flashing to fit profile of tile. Gently tap sides for a tight fit. **Trick:** Cut flashing as shown in photos, when pushing down over tile profile.
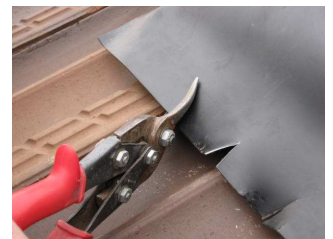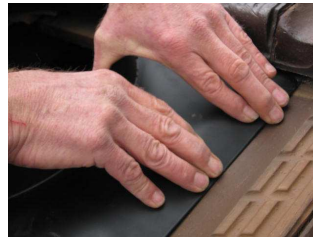
9. Fix straps to tile battens using provided screws and aluminium straps.

10. After the flashing has been securely fastened, silicone inside contact point between flashing and upper part of tile and the outside edge.

11. Silicone contact point where flashing touches higher point of tile. Do not silicone drainage valley on tile.
If a thermostat is to be fitted you may be able to do that through the flashing opening before you mount the fan housing. Alternatively it can be done from inside the roof space later.

12. Fold straps over collar of flashing

13. Place the Solar Whiz unit over the flashing and orientate it towards the north (or your alternative choice of direction, e.g. northwest).

Congratulations on completing the installation and enjoy your Solar Whiz!

14. Use the predrilled holes in the fan housing for guiding the self cutting screws to fix the fan housing to the flashing. For extra strength, also put a screw through where the aluminium straps sits between the fan housing and the flashing.

15. If a thermostat is fitted—connect the thermostat. The adjustable thermostat is connected by separating the brown/red wire from the PV panel and the red fan wire and inserting the thermostat in the loop. The red fan wire is connected to the blue/black wire from the thermostat and the brown/red solar panel wire is connected to the brown/red wire from the thermostat. Should the wiring become undone on your adjustable thermostat the black/blue wire goes to terminal 2 and the red/brown wire to terminal 8.
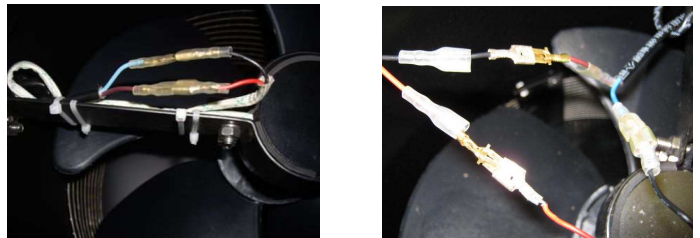
Standard   With Thermostat

16. Position thermostat about 500 mm below the roof. The average temperature setting for best results is around 28Cº. For low pitched roofs maybe around 26Cº. Temperature will also depend on the position of the thermostat. There is no hard and fast rule—so experiment. *Note: Set thermostat to COOL and HIGH*

17. Your Solar Whiz is now fully operational and will start operating – if there is sun on the PV panel (and the thermostat setting doesn't prevent it from operating).

Eave Vents
For metal roofs and/or roofs with sarking, we highly recommend a minimum of 4, 6 or 8 eave vents to ensure adequate supply of replacement air. Eave vents are available from GES or specialist ventilation suppliers.