

400mm Concrete & Terracotta tile Installation Instructions – solid and flexible shaft kits

Safety - When installing a SolarBright™ skylight system ensure that all safety measures and precautions are taken. The installation of the product will require using power tools, climbing on the roof and possibly working in a confined space. The product has been designed to be installed by an average handyman, however the installer must be competent to carry out the task safely and correctly.

Positioning the skylight

1. Mark the ceiling where SolarBright skylight is required by pushing a small pin or nail between the ceiling joists. A stud finder can be used to locate ceiling joists and determine the centre point between them.
2. From inside the roof space locate the nail and ensure that there is enough clearance to fit the product, mark the point from inside the roof directly above the nail. A plum bob can be used for determining the point.
3. In order to be able to locate the selected position from outside the roof insert wire or other object between the tiles or just move a tile if possible. In case of metal roof drill a small hole through the roof and insert a wire or other object through the hole (or drill tech screw up through roof).
4. From the top of the roof locate the position of the roof flashing by finding the wire or hole / tech screw that previously was left from inside. Ensure the flashing can be fitted in the position. Remember that SolarBright solid shaft kits come with a top and bottom angle adaptor as standard. The angle adaptors will allow you to angle the shaft up to the roof turret. They also assist to relocate the flashing if required or adjust the angle down to the appropriate ceiling position if required.
5. Fit the roof profile as per the following instructions and refer to the roof profile pictures.

Installation of the 400mm concrete/terracotta roof profile

1. Remove 6 roof tiles where the skylight is going to be installed and cut the horizontal batten out in the centre of the profile. (See pic 1)
2. Place the Solarbright profile between the two vertical rafters where the batten has been cut. (See pic 2)
3. Mark the skirt to the shape of the roof tiles. Cut out the skirt of the Solarbright profile tile with snips. (See pic 3)
4. Place the Solarbright profile back into position, under the top tile. Tech screw the two wings down onto the battens using the 4 tech screws provided.
5. Insert a cable tie inside the hole in lugs of the underside of the SolarBright profile and tie it down around the tile timber battens (See pic 4).
6. Replace all full tiles that can fit back. The profile is 2 tiles in height and 2 tiles are now required to be cut to fit in place over the side wing and adjoin to the next tile. Measure the distance between the inside edge of the side wing and the next adjoining tile (see pic 5).
7. Cut down 2 tiles using the measurements taken with a grinder to fit between the next adjoining tiles for the top half of the profile and the second row of tiles at bottom half of the profile (pic 6).
8. Any lugs on the underside of the cut tiles need to be cut off, so that the tiles can sit down correctly on the roof profile wings (pic 7)
9. Apply some silicon to the underside of the cut tiles and between the edge of the tile and the roof profile, to help hold them in place and prevent them sliding down (pic 8).



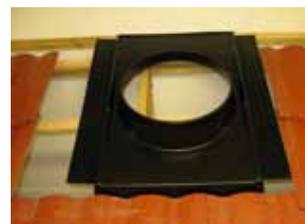
PIC 1



PIC 2



PIC 3



PIC 4



PIC 5



PIC 6



PIC 7



PIC 8

Ceiling Fitting Installation

1. Using the template provided (plastic strip with holes at either end), centre one hole in the middle of the ceiling location where the ceiling diffuser is to be installed and hold with a screwdriver. Using a pencil or marker, trace a circle in the outer hole of the template on the ceiling and then cut out the circle in the ceiling with a gyprock/reciprocating saw.

2. Insert the ceiling ring into the hole and secure it to the ceiling using the screws and angle anchors.

Assembly of solid shaft skylight and dome (refer to instruction following for flexible shaft skylights)

3. Peel the protective cover liner from inside the top angle adaptor, Insert the top angle adaptor into the roof profile and insure that it sits flat on the top of the turret of the profile. (Turn the bottom section of the top angle and adjust to face the ceiling hole if required).

4. Note: for Maxlight series skylights - fit the dome over the turret and pre-drill four holes in the turret where the dome holes align. Using the four screws with rubber washers, secure the dome onto the turret through the predrilled holes.

5. Note: for Spectrum and Budget range skylights - attach the Mohair seal liner provided around the bottom inside edge of the dome just below the four holes). Insert the 4 x 10mm rubber grommet washers into the four predrilled dome holes and then tech screw the dome securely to the turret with the four tech screws provided.

6. From inside the roof measure the distance between the bottom of the top angle and the ceiling ring fitting - this will determine the rest of the length of tube required. (Don't forget to allow for the tubes overlapping).

7. Peel the protective cover liner from inside of the Bottom angle adaptor and the extension tube(s).

8. Join any extension tubes that may be required in addition to the bottom angle to form a cylinder. To do this, align one of the two notches (at the top of the tube and at the bottom) and clip the tube together. You will notice there is a choice of using a shorter notch or longer one. Use the longer notch at the top of the tube and the shorter notch at the bottom of the tube. This is so the top of the tube will become smaller so that it can slide into the tube above while the bottom of the tube will become slightly larger, so that it can slide over the next tubing underneath. When more than 1 extension is required repeat this step with the second extension until you reach the bottom angle adaptor.

9. Attach the bottom adaptor to the extension tube(s) or directly to the bottom angle if extensions are not required. Slide the top section of the extension tube / bottom angle adaptor inside the top angle adaptor then pull the tubing down slowly so the bottom adaptor can rest around the neck of the ceiling ring. Using the foil tape provided, tape all joins between the tubes ensuring they are well sealed.

10. Once tubing has been secured in place and sealed with foil tape, return to underside of ceiling and align the lugs on the diffuser and push up into the ceiling ring grooves. Twist the diffuser clockwise to lock into place.

Assembly of flexible shaft skylight and dome

1. Take the end of the flexible skylight duct with the white plastic ring attached and tape the ring securely to the upper ring edge of the ceiling ring inside the ceiling.

2. Pull the flexible shaft upwards through the turret of the roof profile until the shaft is tight and rigid with minimal slack. Cut off any excess that is not required and tape the shaft securely to the turret. Note: you can overlap the shaft over and down the outside of the turret slightly to ensure it will not become loose before installing the dome over the turret. Go to point no.5 in the instructions above to install the dome.

Solar Breeze Roof Fan Installation Instructions – Corrugated/Trimdeck Roof

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Installation of the Corrugated/Trimdeck roof profile

1. From inside the roof space locate between which two ceiling joists and roof rafters the skylight is going to be installed. Drill a small hole through roof or screw a tech screw from the inside of the roof sheeting to the outside of the metal roof so that you can locate the position when you are on top of the roof.
2. Place the roof profile on the roof so that the round turret is centrally located around the small hole. Using a pencil/texta, mark two points on the roof in the top left and right corners where the flashing begins to narrow (approximately 65mm down from top left and right edges of the 250mm roof profile and 110mm from the top of the 400mm profile (See pic 1). Mark a horizontal line from, left point to right point. (See pic 2).
3. Trace and mark the bottom half circle of the inside of the round roof turret and join up to the top two points. (Pic 2).
4. Cut out the "D" shape you have traced using a hacking knife, tin snips or nibbler. (See pic3)
5. Peel the backing off some of the foam tape provided and stick from left to right across the top front section of the roof profile where the front lip is going slide up underneath the horizontal cut in the roof sheeting. (See pic 4).
6. On the underside of the flashing, stick two lines of foam tape down the left and right edges of the profile and the remainder of tape along the bottom.
6. Carefully slide the top lip under the roof and place the flashing over the D shaped hole. (See pic 5).
7. Secure the flashing to the roof using the tech screws supplied. (See pic 6).
8. Peel and stick the two foam inserts inside the two plastic caps. Silicon the top two corners where the roof profile meets the roof. Position the two caps over corners and secure caps down with a tech screw. (See pic 7).
9. It is recommended to seal with silicon under the horizontal edge of the roof sheeting that has been cut to fit the profile if the pitch is lower than 10 degrees. (See pic 8)



PIC 1



PIC 2



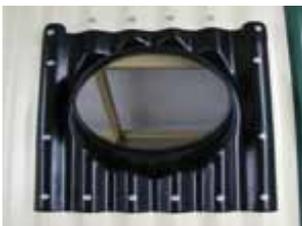
PIC 3



PIC 4



PIC5



PIC 6



PIC 7



PIC 8

1. After completing the roof profile installation, take the aluminium louvre ring inside the solar breeze roof fan and place over the turret of the roof profile (see pic 1 below). Using the 4 smaller tapping screws, screw the bottom outside aluminium ring through to the plastic turret it is sitting on. Pre-drilling a small hole for each location will assist.
2. Now place the Solar Breeze Roof Fan over the aluminium louvre ring. Using a compass, orientate the solar panel to face north by rotating the fan around the louvre ring and adjusting the tilt angle of the panel if required (See Pic 2).
3. Take the 4 larger self tapping screws and screw from the outside of the solar fan black metal casing through to the aluminium louvre ring. Note: there are four pre-drilled holes in the outer metal casing. Pre-drilling through the aluminium louvre ring from the outside of the four holes in the outer black casing may assist also. (See pic 3).
4. Your Solar Roof Breeze Fan is now installed and will operate automatically with sunlight. If a thermostat has been purchased, it will engage when the temperature reaches 29 degrees.



Solar Breeze Roof Fan Installation Instructions – Concrete/Terracotta Tile Roof

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Installation of the concrete/terracotta roof profile

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4. Place the Solarbright profile back into position, under the top tile. Tech screw the two wings down onto the battens using the 4 tech screws provided.
5. Insert a cable tie inside the hole in lugs of the underside of the SolarBright profile and tie it down around the tile timber battens (See pic 4).
6. Replace all full tiles that can fit back. The profile is 2 tiles in height and 2 tiles are now required to be cut to fit in place over the side wing and adjoin to the next tile. Measure the distance between the inside edge of the side wing and the next adjoining tile (see pic 5).
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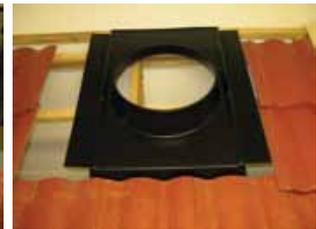
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