



SOLATUBE®

DAYLIGHTING SYSTEMS

Installation Instructions

Solatube Ø 25 cm square
pitched roof flashing Ubiflex

Enjoy daylight

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Version

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Safety Information

- Always observe the safety instructions for the materials and tools to be used.
- Always wear the appropriate personal protective equipment (gloves, safety goggles etc.)
- We would suggest that any roof works is completed by an experienced roofer.
- Always have any electrical works carried out by a certified electrician.
- Please note that the installation works is carried out at your own risk.

Guarantee

Non-electrical Solatube® components are covered by a 10 year manufacturer's warranty against any manufacturing defects. Please retain the original proof of purchase to validate the product warranty. Any costs associated to the installation of any replacement parts covered under the warranty remain at the expense of the purchaser. Our terms and conditions are available upon request.

Disclaimer

Techcomlight Limited expressly disclaims any liability for any unexpected additional expense arising as a result of condensation or any water damage resulting from condensation, installation not in accordance with Techcomlight Limited's installation guide/s or any other external influences beyond the control of Techcomlight Limited. Techcomlight cannot be held liable for damage to structures caused as a result of making openings and installing Solatube® systems. Techcomlight assumes no responsibility or obligation for the failure of an architect, contractor, installer or building owner to comply with all applicable laws, ordinances, building codes, energy codes, fire and safety codes and requirements, and adequate safety measures. Installation instructions reserved. No rights can be derived from this publication.

1. Product Overview



1.1 Parts

- | | |
|-------------------------|-----------------------------------|
| 1. Flex roof dome | 8. 2 x Raybenders flex |
| 2. Top tube assembly | 9. Natural Effect Lens |
| 3. Bottom tube assembly | 10. Ubiflex pitched roof flashing |
| 4. Brush seal | 11. 5 x Roof dome screws |
| 5. Metal transition box | 12. 3 x Roof tile clips |
| 6. High-tack sealant | 13. Roll of aluminium tape |
| 7. LightTracker flex | |

2. Installation Steps

2.1 Step 1 – Flat roof flashing

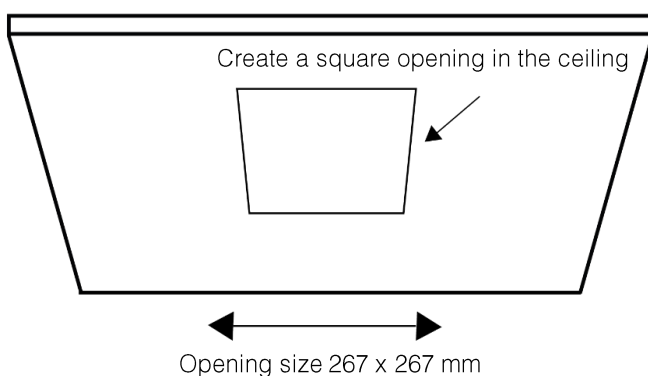
Determine where you want to install the Solatube from the inside and mark the position through the roof.

Note: Consider the roof construction and any electrical wires or pipes which may be hidden within the roof void.

Roof: Create a circular opening with a diameter of between Ø 270 - Ø 280 mm through the roof construction only.

Ceiling: Create a 267 x 267 mm square opening in the ceiling for the square ceiling diffuser.

Note: For the recessed ceiling diffuser, a recess of 245 x 245 mm is required.



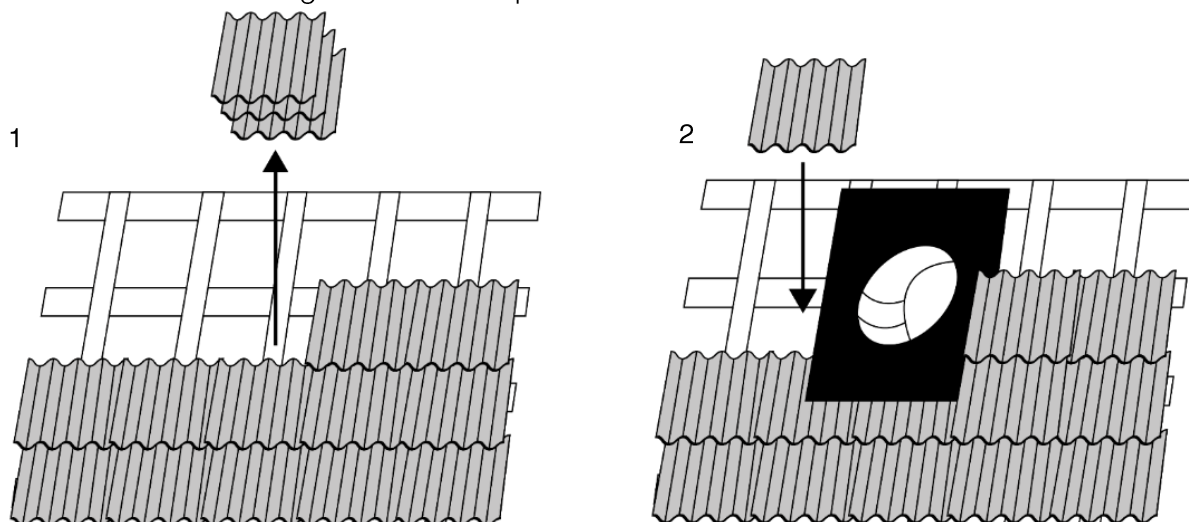
2.2 Step 2 – Install the Ubiflex roof flashing

Remove sufficient tiles from the roof to allow the flashing to fit down onto the tile battens as shown below.

Determine the ideal position so that the flashing can be installed beneath the tiles above / to the sides and down onto the tiles below.

Once the final position is determined, mark and cut any obstructing tile batten to allow the top tube assembly to fit through the flashing down into the roof void.

Important: Temporarily insert the top tube assembly down through the flashing to help you to centralise the flashing over the roof aperture created.



Tip: The bottom skirt of the Ubiflex flashing is longer than the top. Fix the Ubiflex roof flashing in place by screwing the top of the flashing to the tile battens.

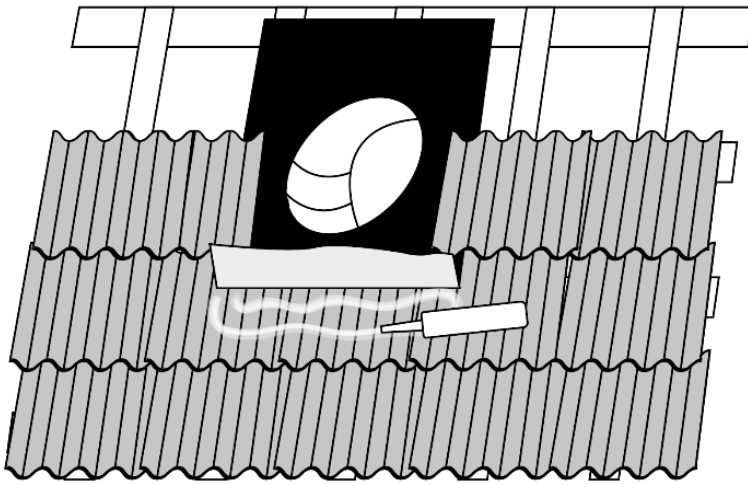
Create a weather stop by folding the sides and top of the flashing upwards by a few centimetres.

Dress the bottom skirt of the flashing down onto the profile of the tiles below.

2.2.1 Step 2.2.1 – High-Tack sealant

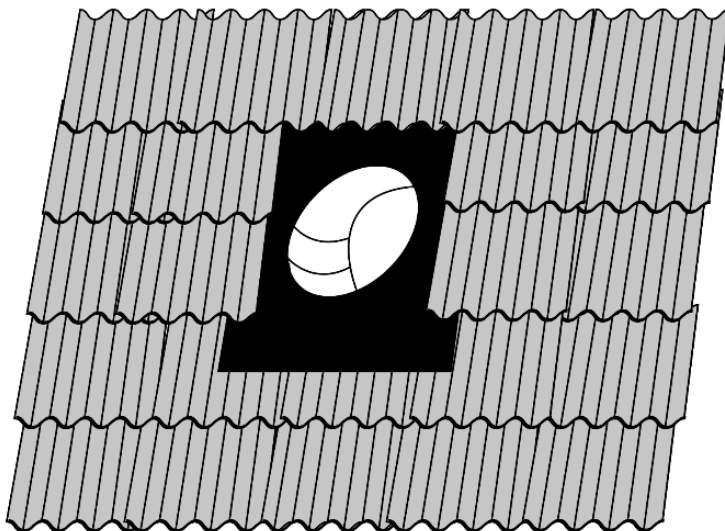
Secure the lower skirt of the flashing down onto the tiles below with the High-tack adhesive/sealant and tile clips provided.

Tip: Ensure that the tiles below the flashing skirt are free from dust and debris prior to applying the High-tack adhesive/sealant.



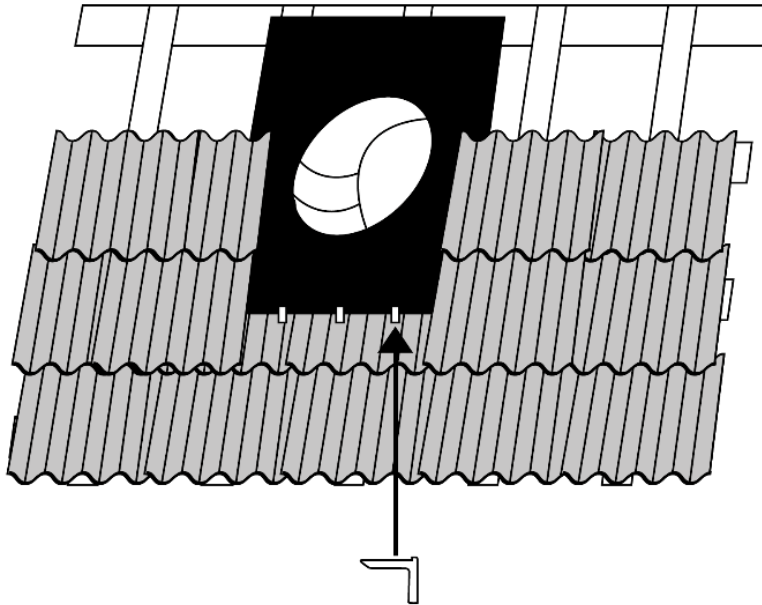
Fit the roof tiles back around the sides and top of the roof flashing.

Note: The sides of the flashing must be overlapped by the roof tiles.



2.2.2 Step 2.2.2 – Attach roof flashing tile clips

The three tile clips provided are also used to secure the bottom skirt of the flashing down onto the roof. Clamp the short "leg" of the clips between two tiles beneath the edge of the flashing and bend the long "leg" back over the edge of the flashing to clamp it in place.



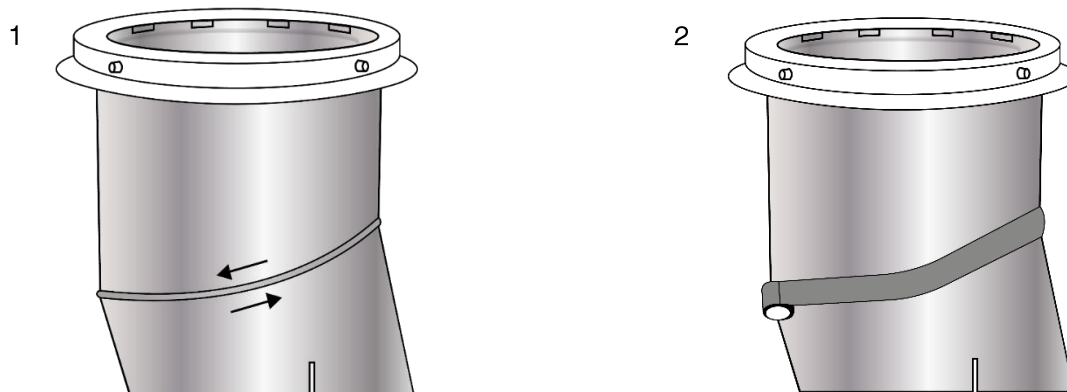
2.3 Step 3 – Adjust top tube angle (if required)

If required, the integral angle within the top tube assembly can be rotated to create an angle from 0 to 30 degrees to compensate for the pitch of the roof.

How to adjust the integral angle: Carefully peel back the protective film inside the tube from along the angle seam.

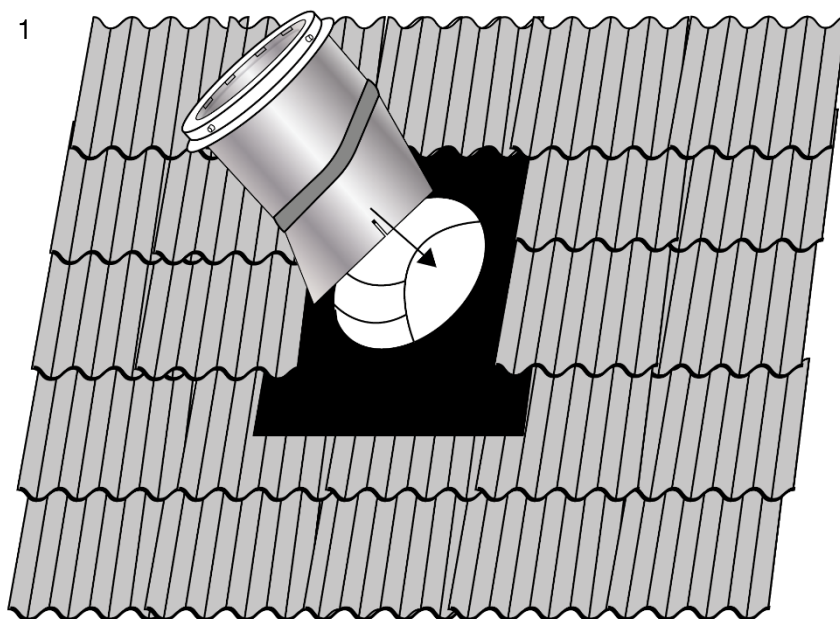
Grasp the top tube with two hands, just below the adjustable angle seam (diagonal). Use your thumbs and index fingers to rotate the angle section as required. Adjust the angle so that the top tube assembly aligns with the bottom tube assembly. Once the angle is correctly set, carefully apply tape to the outside of the tube over the tube seams and around the angle.

Now remove the transparent protective film from the inside of the top tube assembly.

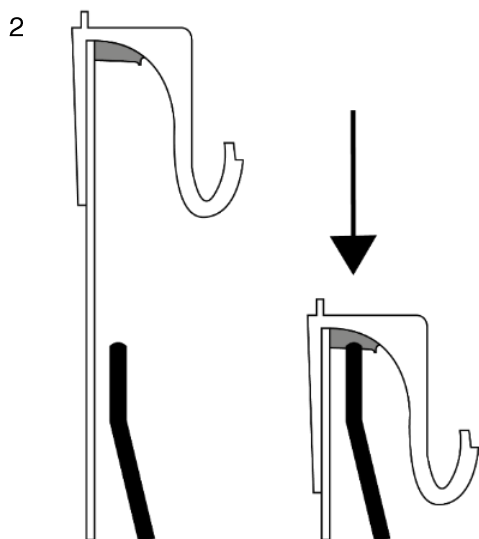


2.4 Step 4 – Install the top tube assembly

Carefully insert the top tube assembly down through the roof flashing until the transparent dome ring is correctly seated down onto the top lip of the flashing as shown below.



Fix the dome ring onto the roof flashing using the dome screws provided, screwed through the four grey spacers from the outside in. The screws will pierce through the flashing and the inside of the reflective tubing. Be careful not to overtighten the screws as this may cause damage to the dome ring.

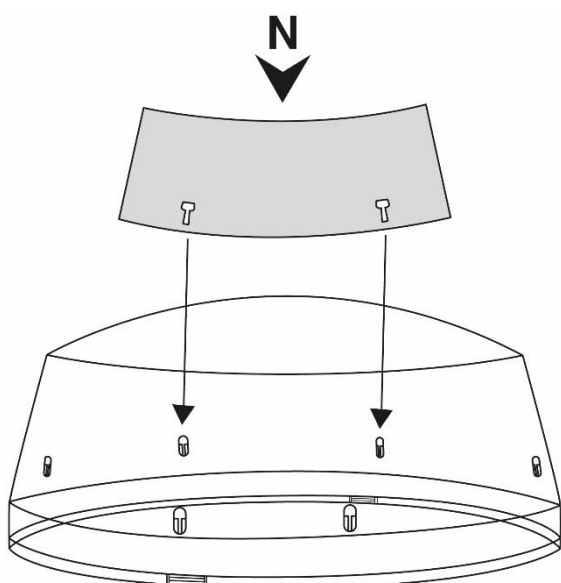


Now remove the transparent protective film from the inside of the top tube assembly.

2.5 Step 5 – Install LightTracker flex

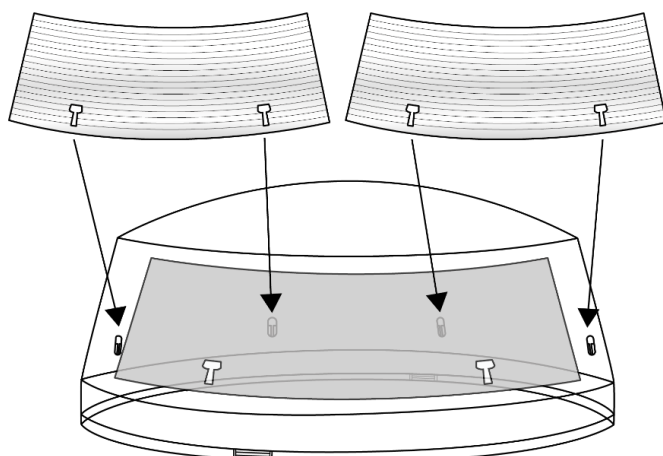
Place the dome upside down on a soft clean surface. Fit the LightTracker flex (this is the mirrored insert) with the reflective side facing inwards. Align the holes in the LightTracker over the corresponding tabs inside the dome and slide the LightTracker flex downwards to secure it in place.

Note: If the sunlight from the south is blocked, do not mount the LightTracker flex in the dome!



2.6 Step 6 – Install RayBenders flex

Fit the two RayBenders flex inserts (these are the transparent ribbed insert) onto the remaining tabs inside the dome with the smooth sides facing inwards and the ribbed sides against the dome. Align the holes in the RayBenders with the corresponding tabs inside the dome and slide the RayBenders downwards to secure them in place.

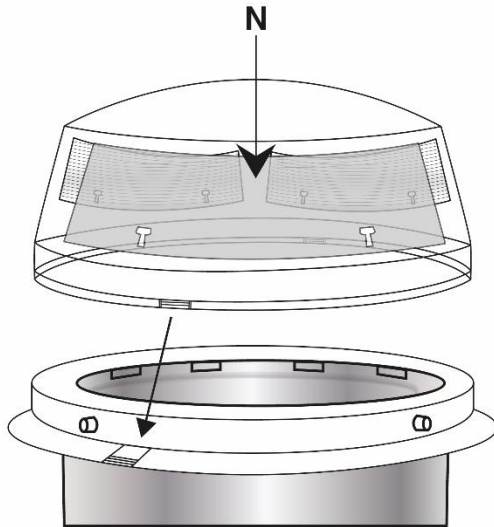


2.7 Step 7 – Fit the roof dome

Snap the dome onto the dome ring using the 4 snap closures. Ensure that all four connecting points are properly engaged.

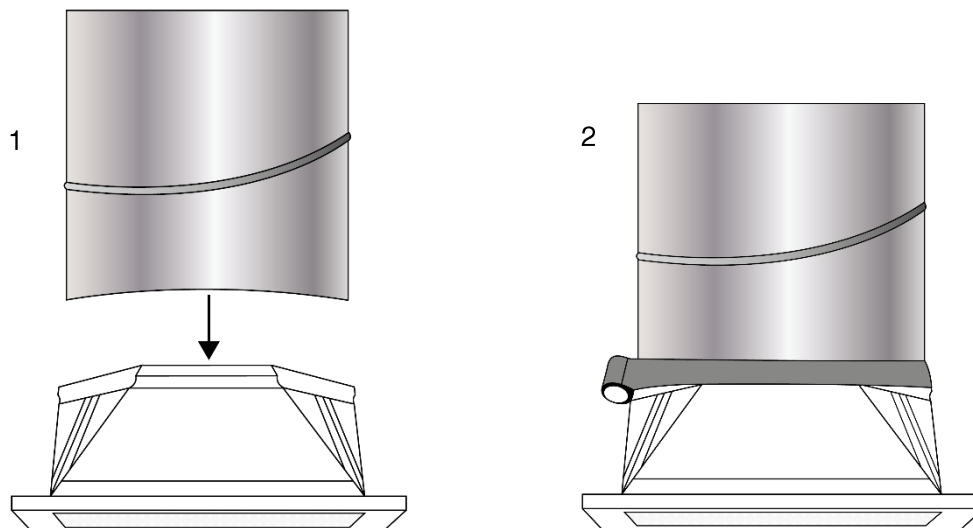
Important: Fit the dome with the LightTracker flex on the north side (facing south).

Tip: If you want to remove the dome again, insert the end of a wide screwdriver into the opening of the snap fasteners and pry it off one by one from below.



2.8 Step 8 – Attach the bottom tube to the transition box

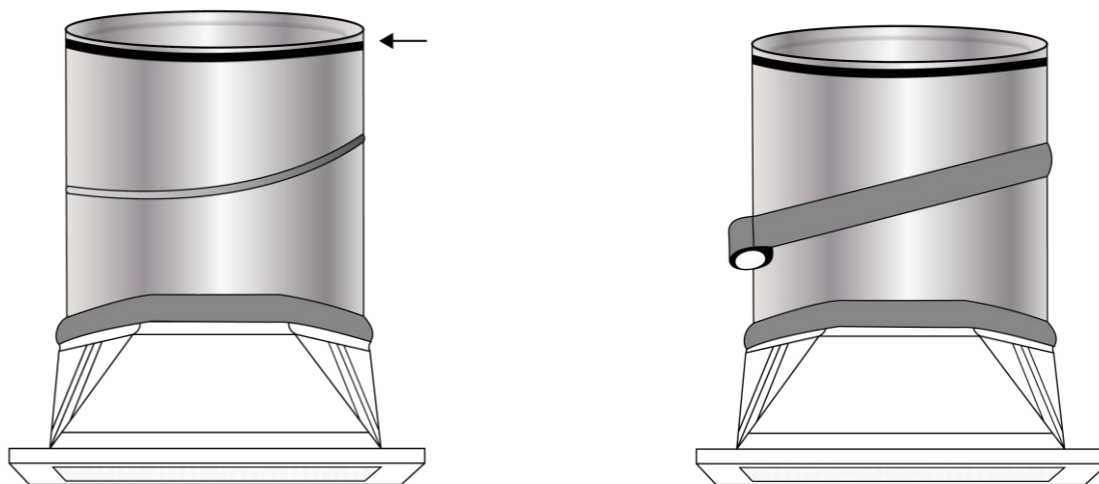
Fit the bottom tube down onto the top of the transition box and tape into place with the aluminium tape provided as shown below.



2.9 Step 9 – Attach the brush seal

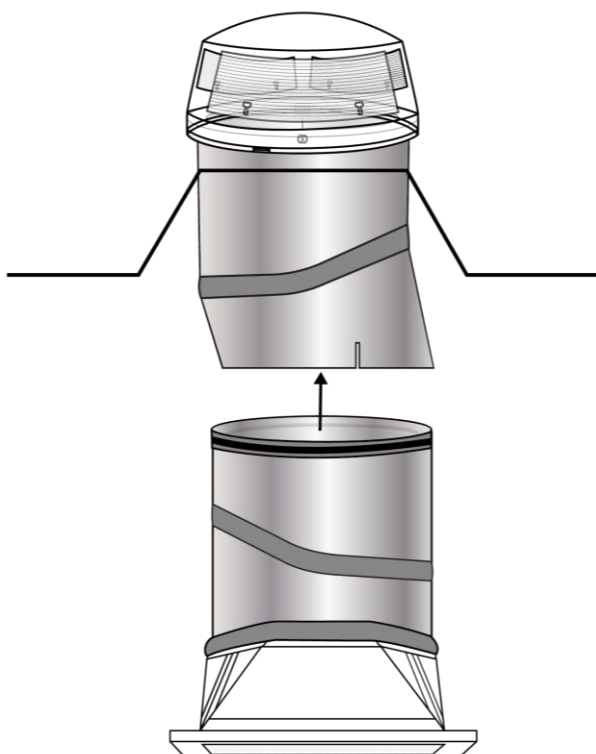
Stick the brush seal strip around the outside of the bottom tube assembly, just below the top of the tube as shown below. Using the entire sealing strip, wrap the strip around the tube keeping the rings tightly together as shown.

Note: if additional extension tubes are being used this operation must be performed around the top of the uppermost extension tube.

**2.10 Step 10 – Install the lower tube section/s.**

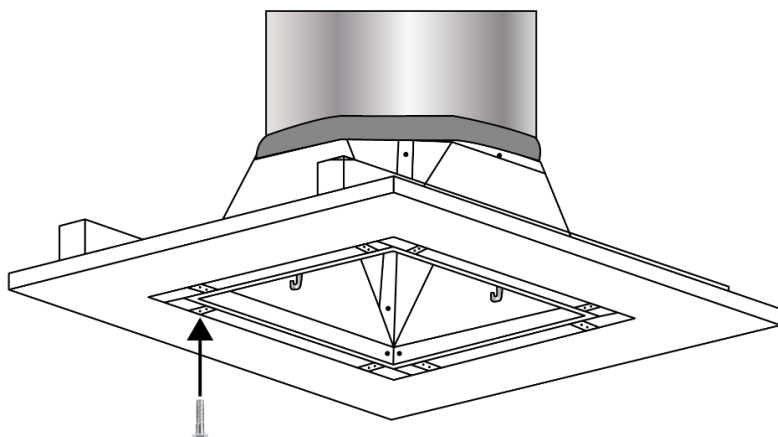
Push the end of the tube with the brush sealing strip applied up through the ceiling opening and up into the top tube assembly. Slide the tube from below through the recess in the ceiling.

Remember to remove the protective linings of the inside of the tube sections.



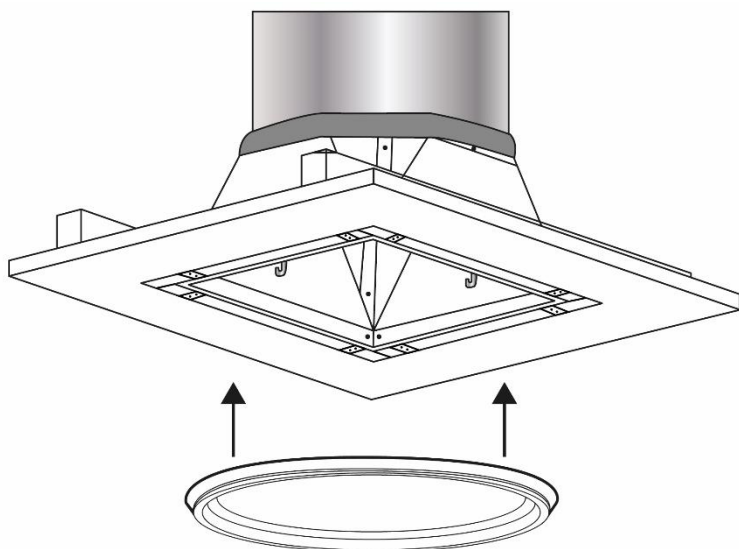
2.11 Step 11 – Fit the transition box

Fit and fix the transition box into the ceiling with suitable screws.



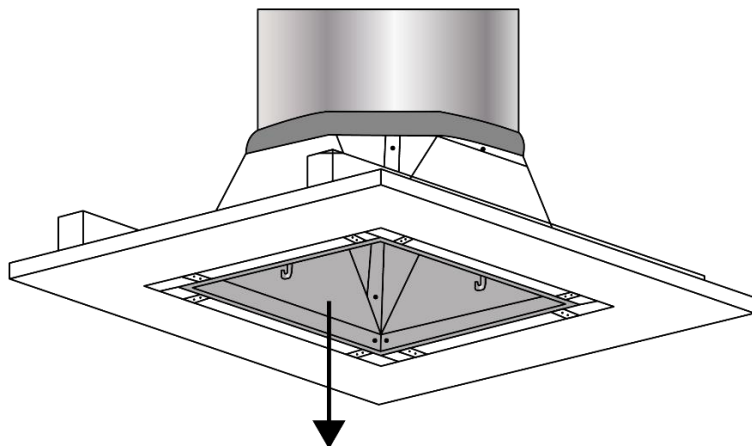
2.12 Step 12 – Natural Effect Lens

Push the Natural Effect Lens up into place inside the transition box as shown below.



2.13 Step 13 – Remove protective film from transition box

Remove the protective film from the inside of the transition box.



Please see the separate instructions for the installation of the ceiling diffuser.

