Installation instructions

External components 25 cm (incl. Eco), 35 cm (incl. Eco) and 53 cm pitched roof flashing

Version: 2025-02

Contents

Foreword

Safety

- 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.

Warranty

- Non-electrical 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 Limited cannot be held liable for damage to structures caused as a result of making openings and installing the product supplied. 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.

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Step 1 – Create openings

Decide from the inside where you want to install the Powerdaylight.
Note: Take into account the construction and any existing pipes or electrical wires!

Make a neat, round opening with the following diameter in the construction.

Powerdaylight 25 cm: between Ø 270 - Ø 280 mm
Powerdaylight 35 cm: between Ø 370 - Ø 380 mm
Powerdaylight 53 cm: Ø 550 mm

For a round ceiling diffuser, the opening in the ceiling must be made with the same diameter as mentioned above.

For a square ceiling diffuser, a neat, square opening must be made in the ceiling with the dimensions below:

Powerdaylight 25 cm Justfrost: 267 x 267 mm
Powerdaylight 25 cm Recessed: 245 x 245 mm
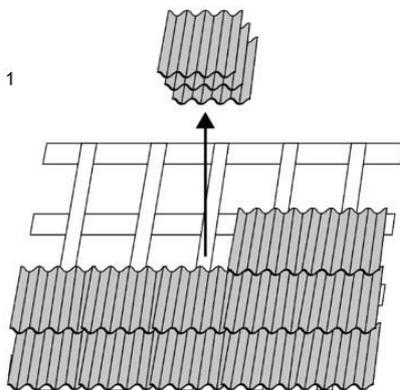Powerdaylight 35 cm Justfrost: 367 x 367 mm
Powerdaylight 35 cm Recessed: 345 x 345 mm
Powerdaylight 53 cm square surface mounted: 605 x 605 mm
Powerdaylight 53 cm Recessed: 568 x 568 mm

Step 2 – Install the roof flashing

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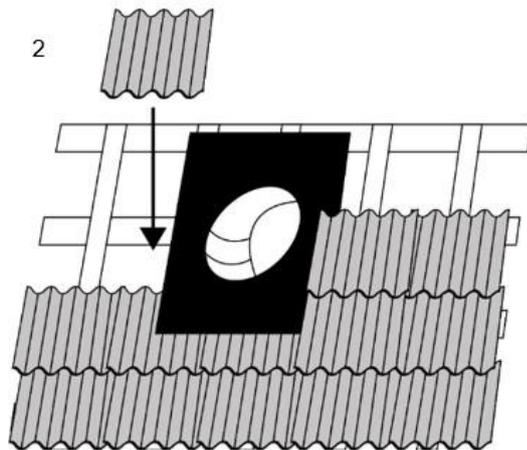

Determine the ideal position so that the flashing can be installed beneath the tiles above / to the sides and down onto the tiles below.

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.
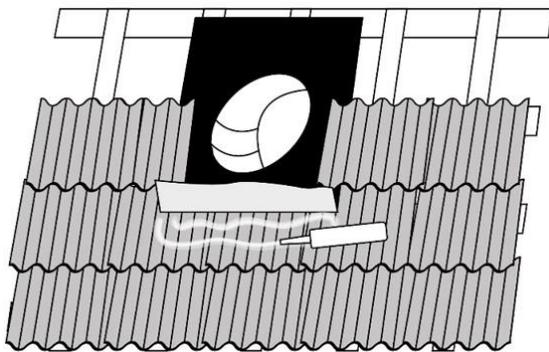
Tip: The bottom skirt of the Ubiflex flashing is longer than the top.

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.
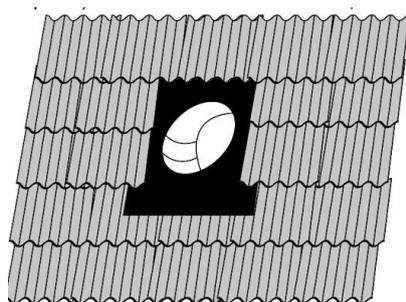

Secure the lower skirt of the flashing down onto the tiles below with the High-tack adhesive / sealant provided.

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.

Step 3 – Install exterior tube through roof flashing

Tip: Remove the transparent protective film on the inside of the outer tube if necessary. This is easier than doing it later from below. If you have chosen the 'round (no ceiling) diffuser', it is often already pre-fitted and the film has already been removed!

Push the exterior tube down through the roof flashing until the aluminium dome ring is correctly seated down over the top collar of the roof flashing.

Note: With the ECO version, the pipe must be completely insulated, we recommend doing this in advance with an insulation foil such as Alkreflex. This insulation foil is not included with the standard set.
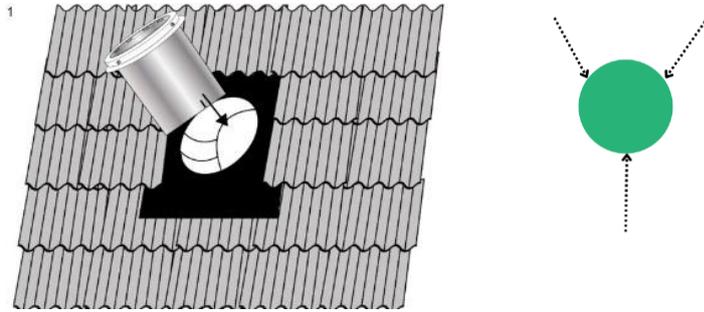
Step 4 – Orientate the dome reflector

The dome reflector must be orientated with the reflective side (the concave side) facing towards the south and the convex side towards the north. As an exception, in the case of an obstacle such as a wall extending above, the wall can be considered as the 'north side', therefore the convex side is directed towards the wall. The exterior tube can be twisted within the roof flashing to the correct orientation.

Step 5 – Fix the roof dome

Screw the 3 fixing screws supplied through the aluminium dome ring in 3 places around the ring as indicated below. The screws will pierce through both the roof flashing and the reflective tubing.

Continuation of the installation instruction:

For the remaining installation instructions (interior tube and ceiling diffuser) we refer you to the separate installation instructions for the specific chosen ceiling diffuser type. If we were informed of the desired system length in advance, the ceiling diffuser would have been provided pre-assembled to the tubing, therefore in this case the installation is now complete.