

Installation Guide –

Roof Access Hatch – Residential (RAH-R) | Electric

These instructions should be used for:

- Installing access hatch supplied with adaptor collar
- Constructing and waterproofing a timber upstand curb
- Installing and waterproofing access hatch with proprietary curb
- Installing the dome on the upstand curb (if applicable)
- Electric installation



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Handling & Storage

While all access hatches and associated products are suitably packaged to avoid damage, care should be exercised when handling. For moving larger items, two or more people may be needed.

All access hatches and accessories must be stored on a flat dry surface under cover prior to fixing. Domes should be stored on edge, not stacked horizontally, and protected from the rain.

Domes should not at any time be left in direct sunlight until installation is complete. Heavy items should not be placed on top as this can lead to damage or distortion.

The HSE Publication Safety in Roofwork HSG33 gives good advice on the precautions of safe working practices and procedures that need to be adopted when working on roofs.

Note: High security fixings are supplied with all products and are designed to prevent subsequent removal.

Maintenance

Whilst polycarbonate domes are deemed 'Non-Fragile', rooflights should be treated as fragile surfaces and should not be walked upon under any circumstances. Check fixings, opening frames, ventilation and sealing tape where applicable once a year. Avoid all contact with: Silicone, Wood Preservative, Adhesives and Sealing Tapes.

Remove tar stains with turpentine and rinse with plenty of water. Clean with mild soapy water (no abrasives) and always rinse with plenty of water. In normal weather and site conditions, only occasional cleaning is required. No other maintenance should be necessary.

This is an electrical appliance and should be tested periodically to the relevant electrical specification. Check the power cable for damage and signs of wear.

Warning Notes

The actuator is factory fitted with a limit clamp to permit the unit to fully open to 90°.

Any adjustments made to this device to restrict the opening angle will render Sertus guarantee invalid.

Installation must comply with all applicable local building regulations.

Note:

Hazard of squashing body parts inserted between moveable and fixed parts of the rooflight. Assume a safe visual control position when operating.

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Note:

This access hatch will open to approximately 90°. When siting the units onto the roof consider the orientation of the hinges, etc, so that the unit does not foul any services or projections on the roof.

Installing Access Hatch Supplied with Adaptor Collar

If the access hatch unit has been supplied as a collar complete with aluminium weathering cowl then this must be fixed to the top of a builder's upstand of timber, concrete, etc, with a minimum height of 150mm above the finished roof surface (see *diagram 1*).

The builder's upstand should be constructed so that the inside face finished to the same dimensions as the PVC upstand and the overall thickness of the curb must be at least 125mm to ensure a sufficient fixing (see *diagram 1*).

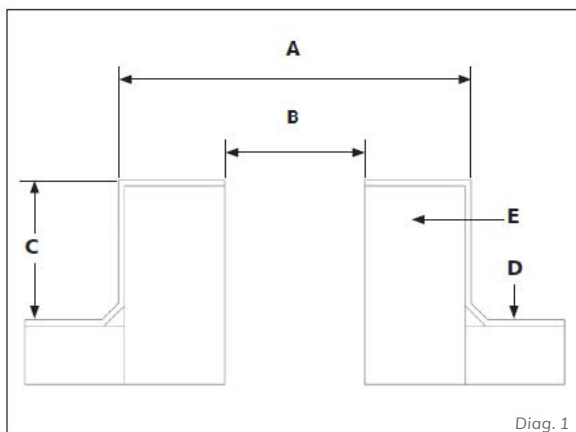
Position the access hatch centrally over the internal builder's upstand opening and secure firmly using the waterproof washers and caps supplied. It is recommended to use a bead of suitable sealant on the underside of the access hatch to provide an airtight sealing.

Fix through at 300mm centres ensuring the fixings are placed into the upstand. Maximum distance of fixing from corner should be 100mm.

Constructing & Waterproofing a Timber Upstand Curb

Construct the upstand to finish 150mm above finished roof level. Upstand must be flat-topped (straight, level, square, etc). Apply the waterproofing (in accordance with manufacturer's recommendations) up and across top of the upstand to give a flat even surface.

Example: Access hatch daylight size 1000 x 1000mm



- A** Overall upstand size (external):
1250 x 1250mm minimum
- B** Internal upstand size (incl lining):
1000 x 1000mm
- C** Minimum height: 150mm
- D** Waterproofing: In accordance with
manufacturer's instructions
- E** Builder's upstand: Material – timber,
concrete

Note: For asphalt in excess of 13mm thick, contact your supplier

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Installing & Waterproofing Access Hatch with Proprietary Curb

Installing

Position the access hatch centrally over the roof opening and securely fix curb to roof aperture through the bottom flange, 100mm from each corner and at maximum 300mm centres. Use large heading fixings (not supplied), type and size as dictated by site conditions. It is very important to fix through the 3no. pre-drilled holes in the metal support plate. Upstand curbs should be fixed to a structural component (i.e. not fixed through insulation).

The overall height of the upstand should remain minimum 300mm above finished roof surface. If insulation is being used PVC upstand will need to be fitted to timber grounds.

Waterproofing

Apply the waterproofing (in accordance with Manufacturer's Recommendations) up to underside of the top flange (see *diagram 2*).

Bitumen Felt and Torch-On Systems:

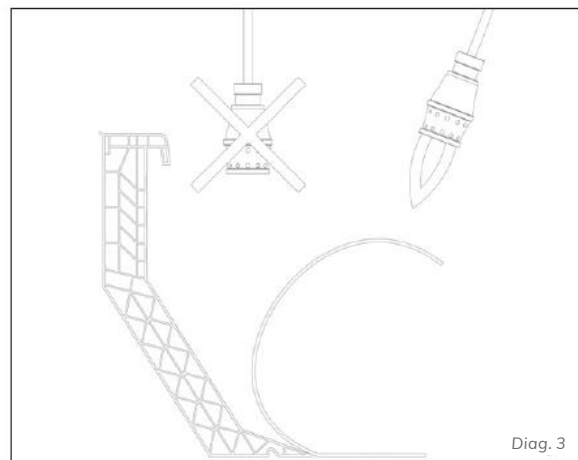
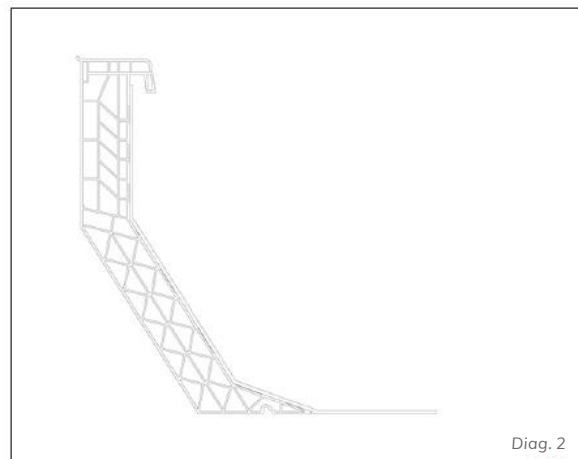
The curb should be primed and normal application techniques followed. For Torch-On the torch should be directed at the waterproofing and not directly at the curb (see *diagram 3*).

Single Ply System:

This may be solvent or heat welded and mechanically fixed to the curb, dependent on the type of membrane. Refer to *Supplier for further information*.

Asphalt:

The curb should be primed and expanded metal lathing (EML) should be affixed using 10mm maximum length staples. The first coat of asphalt should be applied cooler than usual (approx. 180°). This layer should be as thin as practically possible. Due to the insulating properties of the upstand the heat cannot dissipate quickly and it is necessary to allow the first coat to cool completely before applying successive coats which can be at normal temperatures and thicknesses.



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Installing the Dome on the Upstand Curb (if applicable)*

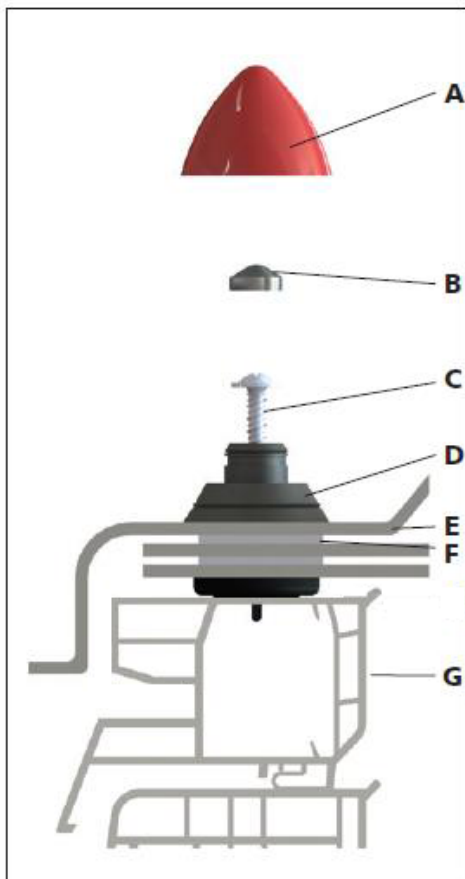
Position dome centrally onto opening frame.

Securely fix the dome using security drive bit and screws supplied into the pre-fitted metal mounting clips. Do not overtighten. Install anti-burglar cap. Locate the weather cap onto the black screwbolt body then press the cap downwards very firmly to fully locate (when correctly located a distinctive click will be heard).

Installation Parts

- A Weather Cap
- B Anti-Burglar Cap
- C Security Screw (do not overtighten)
- D Screwbolt Body
- E Dome
- F Foam Tape
- G Opening Frame

* If the access hatch is supplied with an insulated cover then this will already have been pre-mounted in the factory.





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Electric Installation

Technical information

Opening Angle	90°
Supply Voltage	230V AC reverse polarity (via a Transformer
Max Current	Single Actuator: 4.0A Tandem Actuator: 8.0A
Max Load	2500N IP54

The electric actuator is designed to operate via the RAH-R retractive switch or key switch available from Sertus.

This unit must be connected by a qualified engineer. Before commencing any electrical work always switch off at the mains.

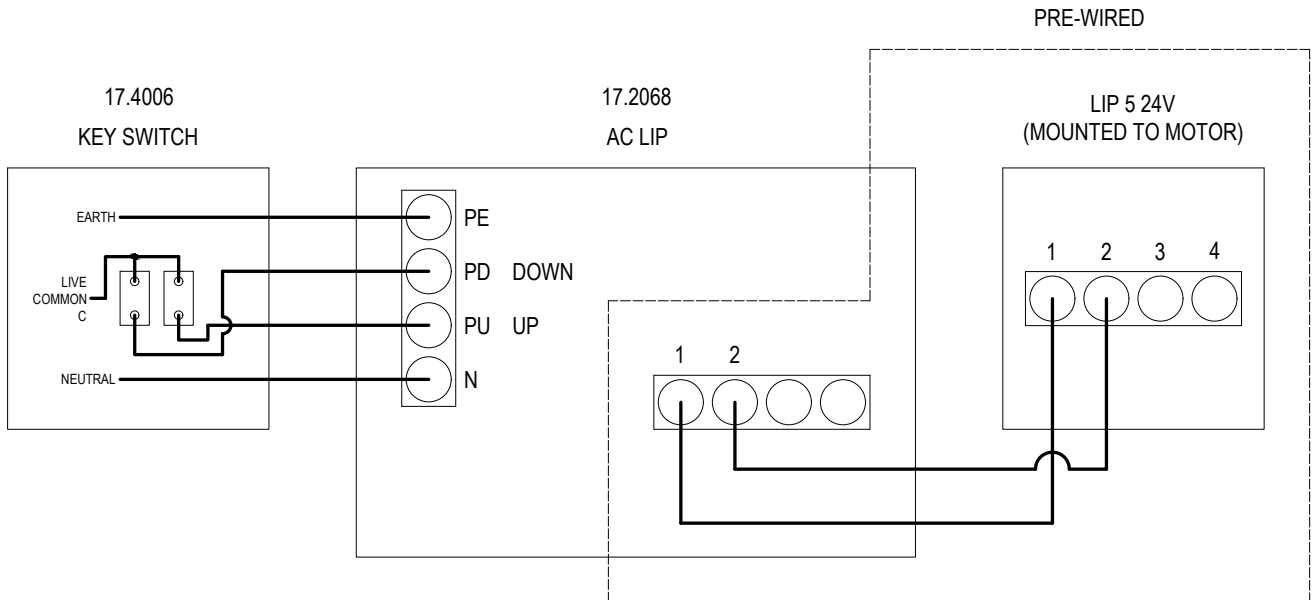
The unit must always be wired via the supplied Transformer and current limiter control module (LIP). When the adjusted current limit is reached and because of load, the speed will automatically be reduced. When the max load is reached (at the end of the travel) the actuator will stop.

Note:

The internal settings in the Transformer/LIP module are factory pre-set and must not be tampered with in any way otherwise damage to the unit could occur.

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Wiring Diagram – Key Switch



Wiring Diagram – Retractive Switch

