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Introduction

Thank you for purchasing a Glazing Vision Visionvent. In order to ensure that it gives you many years of service it is important that before commencing any work you read these instructions fully and ensure that they are strictly followed for a successful and trouble free installation.

We recommend that the installation should be undertaken by Glazing Vision Engineers or Approved Installers (installers that have attended a Glazing Vision Installation training course for this product and carry ‘Approved Installer’ status). This will ensure a reliable product and enable the property owner to benefit from the full 10 year warranty on the product. It should be noted that an installation by non-approved installers will result in a reduced warranty period of just 2 years.

By following the correct installation procedure, a reliable and high performing end result is guaranteed. The critical operations that can lead to problems if not done correctly are the lifting, preparation of the upstand, and ensuring that the product is mounted on the correct pitch with the hinge on the high side. Taking the time to carry out these operations correctly will ensure that the product does not twist or distort and allow the installed product to move freely and unimpeded with minimum load on the mechanisms and no undue stresses in the frame or glass.

Installation must only be carried out by suitably qualified personnel. Care should be taken when working on the product, avoiding accidental damage and ensuring operational reliability. The mechanisms are very powerful, at no time should hands or arms work through the mechanisms, always work around them.

Should you have any queries beyond this manual please do not hesitate to contact Glazing Vision.
Safety Information

Installation of your rooflight may involve working at heights, working at an unusual angle, being in unfamiliar locations or all of these. Before work is commenced, stop and consider the best way to carry out the task and what hazards you might encounter.

Let our experts carry out your routine maintenance with a maintenance contract.

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These products can be very heavy. Extreme care must be taken during handling and installation. Full consideration should be given to how you will safely transport your rooflight product from the delivery vehicle to the installation location. Glazing Vision strongly recommends that specialist, mechanical lifting equipment is employed.

Consider:
- The weight(s) of the product purchased.
- How you will safely transport your rooflight product from the delivery vehicle to the installation location.
- All lifting methods and equipment required for safe installation to eliminate manual handling.
- How you will safely access the area to carry out installation.
- Any openings, voids or unprotected edges that might pose a significant risk whilst working at height.
- Use of scaffolding with all appropriate edging, rails and inspection certification.
- If specialist access or equipment is required e.g. a fall arrest system.
- What personal protective safety equipment (PPE) is required for working at height – e.g. harness.
- Methods for safe working, for example, to avoid falling from height, reducing manual handling and so as not to drop equipment.
- How you will transport tools and other equipment to the installation area.
- The number of persons required to assist with safe installation.
- The competence, capability and experience of the installation team to safely carry out the task.
- Impact of weather on safe installation, especially driving rain and high winds.

If in doubt, please contact Glazing Vision for assistance.

Anticipated hazards may include:
- Falls from height
- Working with specialist lifting equipment or third-party lifting
- Manual handling injury
- Equipment falling from height
- Slips, trips and falls
- Fragile roof areas.
- Finger or clothing entrapment under unit, in mechanical or moving parts
- Working with electricity
- Impact of weather conditions
- Competence of personnel

Do not attempt to repair, move or dismantle the product unless suitably competent and qualified to do so, with the appropriate safety measures in place. Any repairs and/or movement of the product may invalidate the warranty. Please seek advice from Glazing Vision.

Any electrical work is to be carried out by a qualified and competent electrician in accordance with Glazing Vision’s wiring diagram(s).
Warning

The following warnings are here to prevent personal injury and damage to the product. Please follow them explicitly.

General:
• The product must be properly installed and commissioned in accordance with this manual before it is used.
• Glazing Vision strongly recommends that any work is carried out by suitably qualified individuals (e.g. Glazing Vision Engineers or Approved Installers, or an experienced electro-mechanical service engineer).
• Glazing Vision strongly recommends that specialist, mechanical lifting equipment is employed.
• Use the product only for its intended purpose.
• Regular cleaning and maintenance must be carried out according to guidelines.
• A safe working platform must be provided for any installation/maintenance work carried out. This includes suitable edge protection.
• Glazing Vision cannot be held responsible for damage incurred during the lifting and transportation of the product to the installation location (please refer to terms and conditions of sale).

Pre-Installation:
• Glazing Vision products are heavy, fragile and of awkward shape and size. There may be uneven weight distribution due to the materials used and their design.
• The weight(s) of each individual product (or product section) will be clearly marked on the product and will be communicated to clients before despatch of goods.
• Never install any product showing signs of damage. If in doubt consult Glazing Vision for advice.
• Please dispose of the packaging material for this product in a considerate manner. Cardboard and wood items are widely recycled.

Electrical Works/Cables:
• It is recommended that electrical work is carried out by a qualified and competent electrician.
• Do not pull, squash, bend or damage cables where they exit the product. Doing so may loosen connections and this may result in damage to the product and/or create the need for a repair visit.
• Should any cables or electrical components break or become damaged, have them repaired or replaced immediately. Deteriorated insulation of electrical parts or overloading may cause an electric shock or fire.
• Do not install the circuitry in a damp place or a place where it may come into contact with water.

During Use:
• Do not touch the motors/mechanisms after operating the unit as they may become hot.
• Do not walk or sit on the unit.
• Risk of crush and/or trapping injuries. Make sure that fingers and other obstructions are kept clear of the product and its mechanisms at all times.
• Overcurrent protection is designed to prevent damage to the product and its mechanisms. It should not be relied upon to prevent injuries.
• Do not place anything on, or cause obstruction to, the moving sections of the product as this may cause damage to the mechanisms/product and/or prevent the unit from opening/closing.
• Do not allow unauthorised persons (e.g. children) to operate the product as this may lead to personal injury or damage to the product. Do not leave children or pets unsupervised near the product – it may open/close unexpectedly (e.g. due to the rain sensor activating) and cause injury.
• Do not leave the product open in the rain, this could damage the control board and/or mechanisms. If required, a rain sensor can be specified at the time of order.

For more information or assistance please contact Glazing Vision.
These products can be very heavy. Due consideration should be given to getting the product onto the roof safely and extreme care taken during installation.

Points to Note Prior to Commencing Installation

1. The Visionvent should arrive on site in undamaged packaging, which includes a wooden build frame/blocks, cardboard, polyfoam glass protection and low tack tape. Please inspect for damage to packaging and/or product and advise Glazing Vision of any damage or shortfall within 48 hours from signing the receipt of your delivery.

2. Enclosed within the box containing this manual will be the required number of fixing woodscrews and a number of plastic packers, as well as some silicone and other required materials. The installation kit is supplied with two switches (a control switch and an isolator switch – Electric and Chain Actuated Visionvents only), a Power Supply Unit (PSU – Electric Visionvents only) and any additional optional items selected at the time of order.

Standard Installation Hardware

Enclosed within the hardware box for each unit you should find at least the following:

- Stainless steel woodscrews
- Plastic horseshoe packers (various sizes)
- Low modulus silicone

3. Electric Visionvents have two coiled cables emerging from the motor housing as standard (if optional extras have been selected, other cables may also be present). This includes 2 single cores (red and black) 24V DC power cables and a 6 core control cable. These cables will have red identification labels on them (labels should not be removed until final installation). Please refer to Glazing Vision’s wiring diagrams for details of wiring requirements. Only the supplied PSU can be fitted to the unit, failure to connect this unit or wiring direct to the mains will invalidate the product warranty.

4. Chain Actuated Visionvents have two coiled cables emerging from the motor housing as standard (if optional extras have been selected, other cables may also be present). This includes either 1 or 2 (depending on the size of the product) 4 core mains power cables and a (yellow/green) earth cable. These cables will have red identification labels on them (labels should not be removed until final installation). Please refer to Glazing Vision’s wiring diagrams for details of wiring requirements.

5. The switch used to control the operation of the Electric Visionvent is a two button wall mounted control switch. This switch will allow you to operate and stop at any position between the fully open and closed positions. This switch also contains a tri-colour LED to display the product status to the user. The correct control switch is supplied in the installation kit and must be installed to avoid invalidating the warranty. If required, this switch can be installed in a maintenance area and another switch of a retractive single pole double throw (SPDT, ‘on-off-on’, latching off) type can be parallel wired for regular use. Using a SPDT switch that only latches ‘on-on’ can seize the control board and therefore should not be used.

6. The Chain Actuated VisionVent is supplied with a rocker switch which can be operated by pressing and holding the switch in the required direction to open or close.

7. The Electric and Chain Actuated Visionvent also require a 3A fused double pole single throw (DPST) type switch (not supplied). Combined with disconnecting the battery backup (if specified), installing this switch as per the wiring diagram will allow the control board to be reset in the event of a fault (for more information on faults and troubleshooting see the operation and maintenance manual).
8. The upstand must already be in place for the product. The dimensioning of the product will have taken into consideration the external dimensions of the upstand including all weathering. More information about upstand construction can be found in Glazing Vision’s sales drawings. Please note that a minimum distance of 200 mm clearance between the upstand and any surrounding structures must be left on all sides. Additional space to allow the lid to fully open to 95° and detach must also be allowed for. This is to allow sufficient room for installation and maintenance.

9. It is important to ensure that the area of installation is suitably prepared. The area surrounding the upstand should be clear to provide safe access during the installation works. It will be necessary to work on the outside and therefore suitable provisions should be made for safe handling of the product, including all relevant personal protective equipment (PPE) and safety systems for working at heights.

10. Before starting installation, Glazing Vision advises that the physical upstand dimensions are cross-checked with those given for the order, to ensure the product will fit. The upstand will need to be within ± 10 mm of the ordered size. The top surface of the upstand should be flat without undulations greater than ± 2 mm. Check that the cable exit hole has been included in the upstand (refer to Glazing Vision’s sales drawings for the location). Also check the diagonals to ensure that the upstand has been constructed square. The upstand must be weathered as per the sales drawings. If using any metallic waterproofing material, this cannot be applied across the top surface of the upstand as this will cause a thermal bridge which can lead to internal condensation and invalidate the product warranty.

11. These products can be very heavy. Glazing Vision strongly recommends that a structural engineer is consulted when designing the structure(s) that will support the product and the surrounding structure. Nothing in this manual or on Glazing Vision’s sales drawings constitutes a structural proposal.

12. Glazing Vision strongly recommends that a ‘dry run’ (without any silicone) is completed before committing to the final installation.

Sales Drawings
Sales drawings for the Visionvent can be obtained by downloading them from Glazing Vision’s website (www.glazingvision.co.uk/resources) or by contacting Glazing Vision.
Upstand Top Trim Installation

Begin by cutting the upstand top trim to the lengths required for all sides of the upstand. The corner joints can either be mitred (45°) or straight cut with notches (see image below). If the material requires bending to suit the pitch of the upstand, this can be achieved by screwing the section to the upstand as below and gently tapping the horizontal part using a clean rubber mallet.

![Figure 1 – Upstand top trim placement](image)

The upstand top trim should be cut to size along its length to leave a dimension of 95 mm between the edge of the cover and outside of the weathered upstand. This dimension ensures that the upstand top is covered and there is no contact between the upstand top trim and the exterior product framework (which would create a thermal bridge). The upstand top trim is supplied with 5 grooves along the underside. These grooves can be used to help guide a saw or similar when trimming the cover to size.

![Figure 2 – Upstand top trim measurements](image)

After all upstand top trim lengths have been cut to size and adjusted to fit, they can be fixed into place with the supplied fixings. Drill holes at approximately 500 mm centres using the groove to aid with positioning of the drill bit. The upstand top trim has been designed to accept standard 12 mm plasterboard to ensure a flush finish. Refer to the sales drawings for more information.

![Figure 3 – Upstand top trim fixings](image)
Installation Procedure

Step 1
Remove all packaging from the product including polyfoam glass protection and low tack tape.

When removing the packaging, try to keep it intact as much as possible, so that after installation it can be re-used to protect the product until project completion and final handover.

Gently prise all of the upstand fixing clip on covers off the framework drip legs.

Step 2
Apply two large lines of silicone (supplied in the installation kit) to the top of the upstand. The two lines of silicone need to be approximately 5 mm and 55 mm in from the outside face of the upstand.

Step 3
Fit the chosen lifting equipment to the unit and check that it is secure.

Carefully lift the product to the installation site (roof) using strops underneath the wooden build frame/blocks. This is to ensure that the build frame/blocks do not separate from the product during the lift.

Step 4
When on the roof the product should be lifted off the wooden build frame/blocks (remove the fixings first) and then gently lowered onto the upstand ensuring that the cables (if present) are not kinked or snagged under the framework – feed the cables exiting from the underside of the unit into the cable exit hole in the upstand.
With the framework in contact with the upstand top and the majority of the weight still supported by the crane/lifting equipment, adjust the position of the product on the upstand so that the internal framework is equally spaced and aligned with the internal finishes. Take care when positioning the product during final installation, as once the weight of the unit has been placed onto the sealants it adheres to the upstand making repositioning difficult.

Once satisfied that everything is correctly positioned, carefully release the weight of the product. Remove the crane and lifting equipment.

**Step 5**
Drill Ø3 mm pilot holes into the upstand through the pre-drilled holes in the product’s framework (concealed by the clip on cover). Secure the product to the upstand using the woodscrews and packers provided in the hardware kit. The packers must fill the entire gap between the upstand and product for each woodscrew. Care should be taken when tightening the fixings to ensure the frame does not distort. Fit the clip on covers back onto the unit.

If installing into an alternative material to wood, it may be necessary to source suitable wall plugs and/or fixings to use instead of those provided.

Do not apply any interior finishes yet. Refer to the relevant following section to set up the mechanisms and initialise the product.

Once installation has been completed, fill out the Site QC document.

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Electric and Chain Actuated Visionvent Setup

Once the product has been installed, terminate the cables and apply power to the product following the wiring diagrams. Also install and connect any optional extras as directed (refer to Glazing Vision’s sales drawings and wiring diagrams).

To initialise the Electric or Chain Actuated Visionvent, first check that there are no obstructions preventing the lid from moving freely e.g. scaffolding or loads placed on the lid. Check also that the product’s mechanisms are properly engaged (i.e. the manual override procedure has not been carried out – refer to the Operation and Maintenance manual), failure to check this could result in mechanical damage. Switch on the power. If the product cannot be seen when standing next to the wall mounted control switch, ask for assistance. When you are ready to run the Electric or Chain Actuated Visionvent press and hold the operating switch in the open direction. When operating the product for the first time it is important to check that both mechanisms (if multiple are present) are working in tandem and the lid moves evenly. If the product has not been initialised, it may be necessary to press the close button first before the product will open. If something does not function as expected, immediately release the operating switch and contact Glazing Vision for assistance.

Manual Crank Visionvent Setup

Once the product has been installed, to set up a Manual Crank Visionvent, firstly attach the base bracket and spacer (supplied) to the base frame of the product using the supplied screws – ensure that the parts are correctly orientated. If the glass connector plate needs to be re-bonded use dimensions on figure 6 as a guide.

Wind the collar of the spindle all the way to the top (against the shoulder) before attaching the spindle to the frame bracket (this is essential as the glass will be in the way). Making sure that the shoulder of the spindle sits hard against the collar, unscrew a small length of the inner spindle, until it can connect to the lid bracket. Connect the spindle to the lid bracket using the supplied fixings.

Figure 5 – Attach the spindle to the base bracket
Once set up is complete check the product. Open and close the lid to check and make sure the lid closes with the spindle reaching the end of its travel without trying to apply too much force (which may pull the bracket off the framework when winding hard down on closing).
Interior Finishing

Glazing Vision does not specify the finishes permitted except for the following stipulations:

- The finish must be built up to the internal dimension of the product – see Glazing Vision’s sales drawings.
- No interior metal component (for example edging strips for plastering) may touch any part of the product framework that is the outer colour (RAL 7015 grey as standard).
- Any airspaces between the aluminium frame of the product and the internal finishes must be filled with insulating material.
- Nothing should be fixed directly to the product.
- Nothing should interfere with any mechanisms or controls present.

Contravention of any of these stipulations may severely undermine the thermal efficiency of the product.