



GV Standard VisionVent

Installation Instruction Manual

"Technical experts in the design, manufacture and supply of precision engineered, architectural rooflights for residential and commercial buildings."



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VisionVent Installation Instructions

Points to note prior to commencing installation:

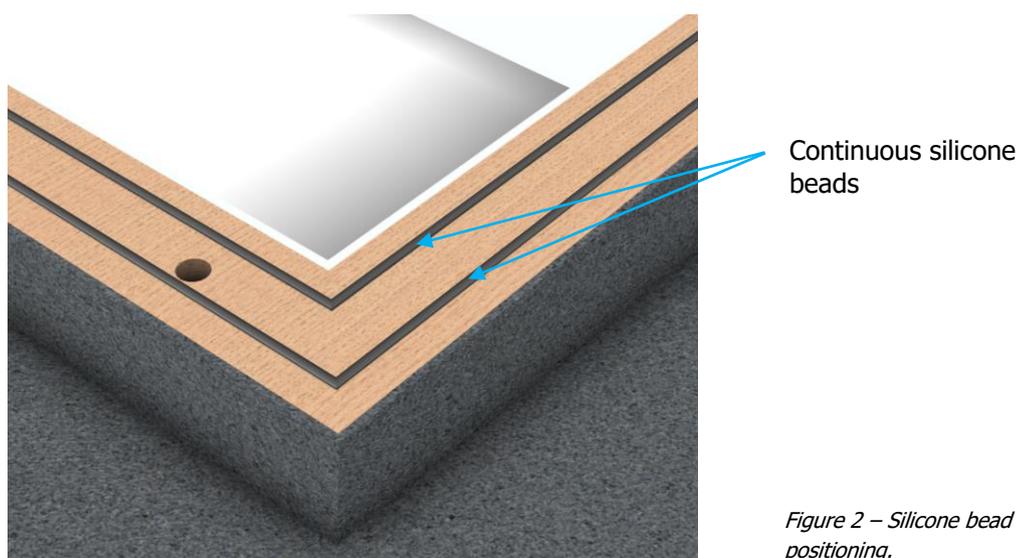
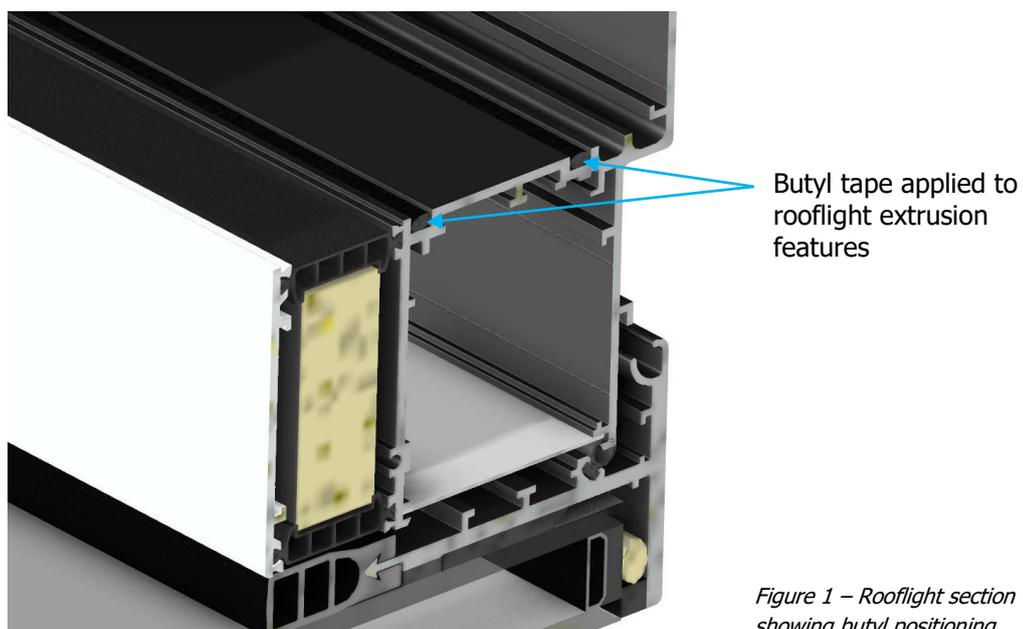
1. The VisionVent should arrive on site in undamaged packaging, which includes sterling board side protection, polyfoam glass protection and low-tack tape base protection. Please inspect for damage to packaging and/or vent and advise Glazing Vision upon receipt.
2. Enclosed within the box containing this manual is a roll of butyl tape, the required number of fixing woodscrews and a number of horseshoe packers. The installation kit supplied with electrical units contains a transformer, two switches and any additional optional items selected at time of order. If the product is a manual opening VisionVent there will be a spindle included. This will need to be attached and properly set up once the rooflight has been fitted to the kerb. Instructions for how to do this are explained at the end of this manual-it is imperative that these instructions are followed closely.
3. For electrically operated VisionVents there are two standard coiled cables emerging from the motor housing, this includes two and six core cables both of which have red identification labels (labels should not be removed until final installation) refer to Glazing Vision standard drawing 401-ASS-403 for details of wiring requirements.
4. The switch used to control the operation of the Visionvent is a single pole double throw (SPDT) type. 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 rooflight status to the user. The correct control switch is supplied in the installation kit and must be installed to avoid invalidating the warranty. This switch can be installed in a maintenance area if required and another switch parallel wired for regular use. Using a

SPDT switch that only latches 'on-on' can seize the controller and therefore should not be used.

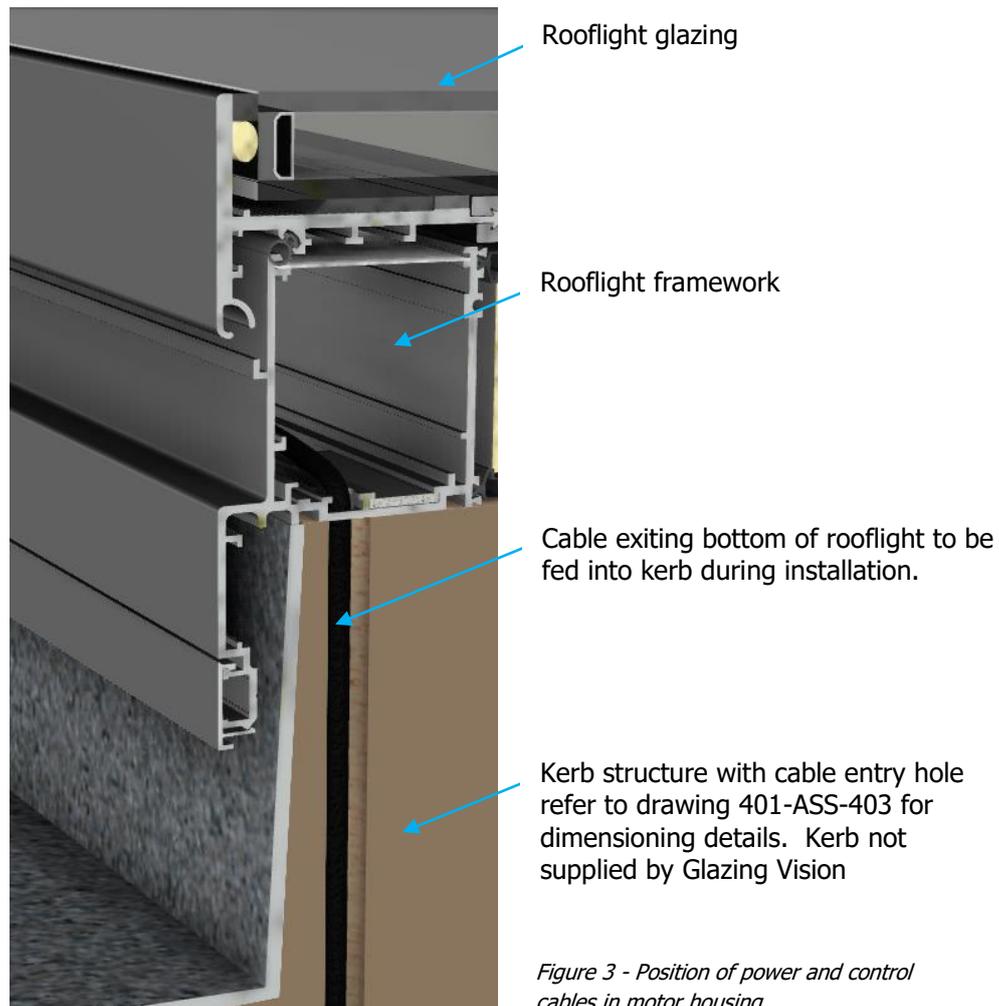
5. The other switch supplied in the installation kit is of double pole single throw (DPST) type. Installing this switch as per drawing 401-ASS-403 will allow the VisionVent control board to be reset in the event of a fault (for more on faults see the Operation & Maintenance manual).
6. The kerb should already be in place for the vent. The dimensioning of the vent will have taken into consideration the external dimensions of the upstand including all weathering. A guide for the kerbs is given in standard drawings S0009/10. The construction of the kerb is detailed more specifically on standard drawing 401-ASS-401.
7. Before starting installation, Glazing Vision advises that the physical kerb dimensions are cross-checked with those given for the order, to ensure the rooflight will fit (refer to drawings S0009/10). The kerb will need to be within $\pm 10\text{mm}$ of the ordered size. Check the top surface of the kerb is flat (although it will be pitched to at least 3 degrees from the horizontal) without undulations greater than $\pm 2\text{mm}$. Check the cable exit hole has been included in the kerb. Also check the diagonals to ensure the kerb has been constructed square. The kerb must be weathered as per drawings. **Note: if using any metallic waterproofing material, this cannot be applied across the top surface of the kerb as this will cause a thermal bridge which can lead to internal condensation and invalidate the rooflight warranty.**
8. The VisionVent must be fitted so that the hinge is at the top of the fall.

Installation procedure

1. Before removing the packaging if possible turn the vent upside down and apply 2 continuous beads of butyl tape to the base of the VisionVent as shown in *Figure 1*. If the vent cannot be turned upside down the rooflight can be sealed to the kerb using silicone. For this operation apply 2 continuous beads of silicone roughly in positions shown in *Figure 2*.



2. For electrically operated vents ensure that provision for the cabling in the upstand is of suitable dimensions and positioned correctly as shown on drawing 401-ASS-401. *Figure 3* depicts the cables exiting through the bottom of the rooflight into the kerb structure:



3. Carefully lower the rooflight onto the kerb top ensuring that cables are not trapped i.e. that the base frame is not sitting on the cables.
4. Remove the clip on covers around the lower perimeter of the rooflight. This is done by first pulling the bottom to release as shown in *Figure 4*.

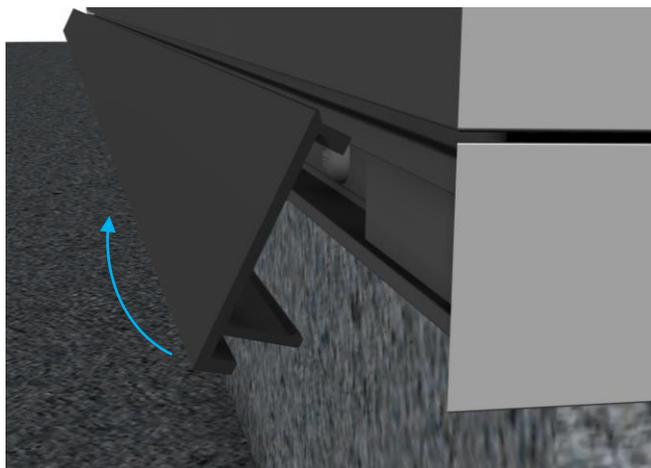


Figure 4 – Clip release direction

5. Fix the vent to the kerb using the No10 x 2½” woodscrews and horseshoe packers supplied as per *Figure 5*. Fixings should be predrilled 3mm to a depth of 50mm. Use the packers to fill the space between the external kerb and inside of the rooflight. Care should be taken when tightening the fixings to ensure the frame does not distort.

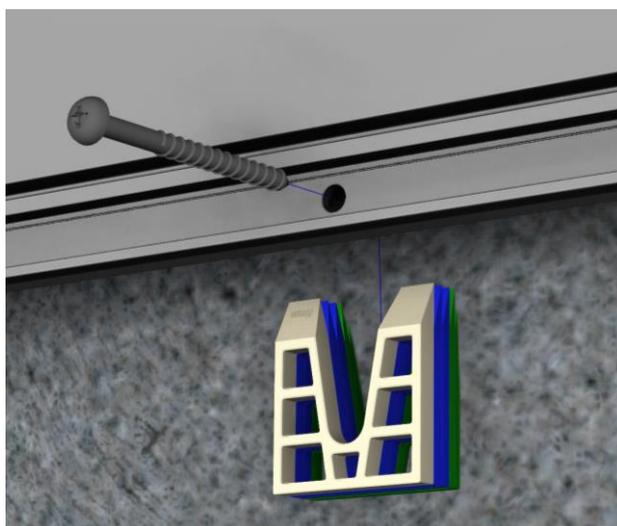


Figure 5 – Packing and fixing

6. After applying all fixings clip on the covers around the base perimeter.
7. To complete the installation the flying connections from the vent must be terminated as per drawing 401-ASS-403. It is recommended the transformer is placed within 10 metres of the VisionVent unit. Any extension to the power and switch lead should be 1.5mm² cable to avoid significant voltage drop. Please note **NO** power must be placed onto the six-core switch cable.

8. This section outlines the procedure for correctly setting up the spindle on the manual vision vent rooflight. ***This procedure is of high importance. If this setup is not carried out correctly it will result in the connector plate being pulled off the rooflight glass or the glass breaking.***

If the glass connector plate needs to be re-bonded use dimensions on *Fig 8.* as a guide. The collar will probably have to be wound all the way to the top (against the shoulder) before attaching the spindle to the frame bracket as the glass will be in the way with the lid closed.

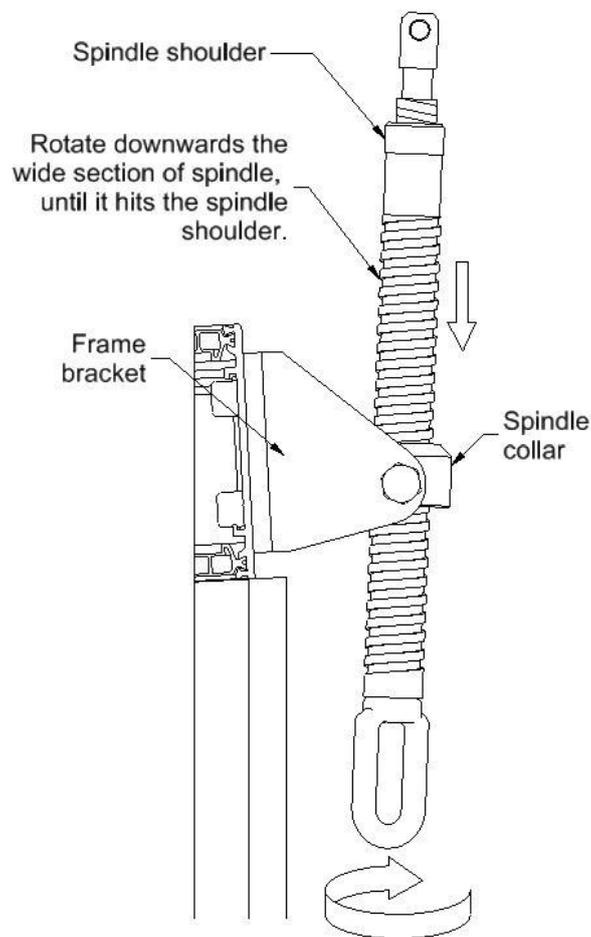


Fig 6.

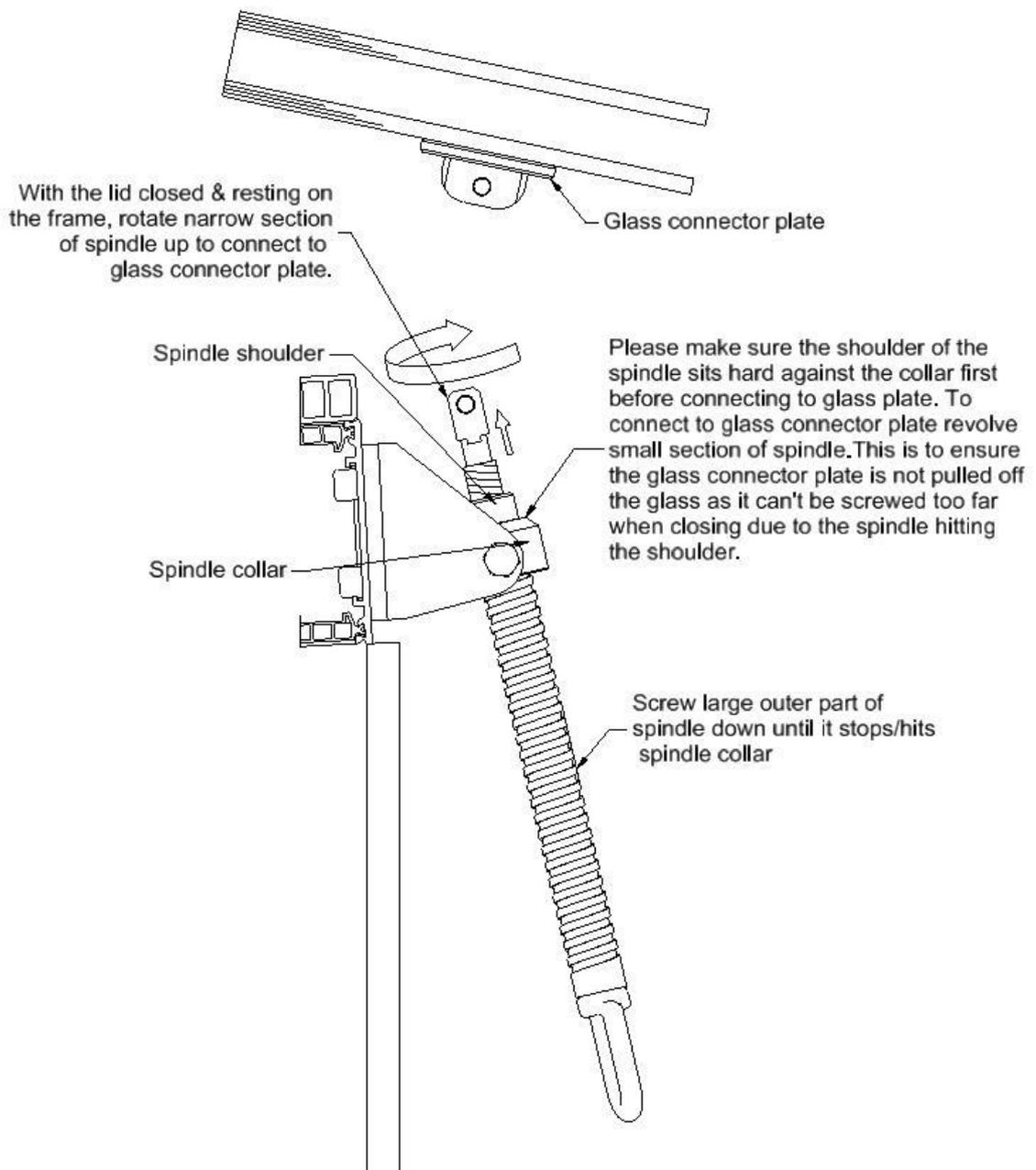


Fig 7.

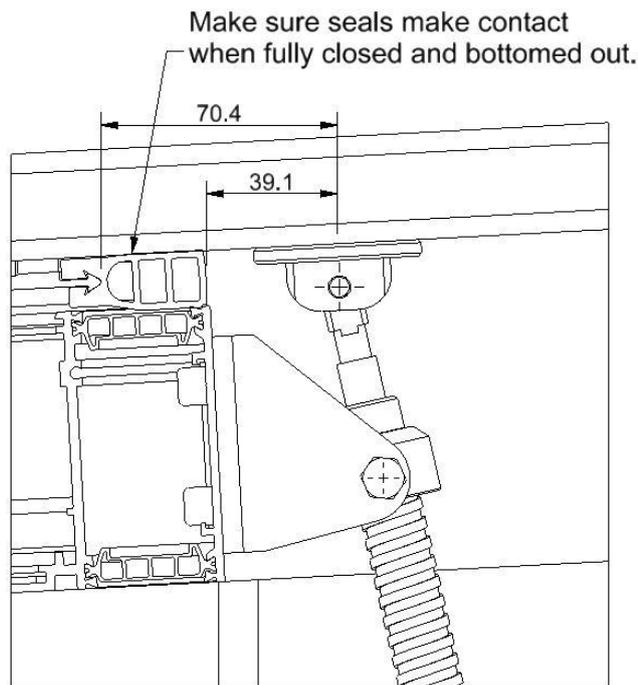


Fig 8.

Once set up is complete check the rooflight. Open and close the lid to check and make sure the lid closes without pulling the plate off the glass by winding hard down on closing.

9. To commission the VisionVent, first check there are no obstructions preventing the lid from moving freely e.g. scaffolding or loads placed on the lid. Check also that the mechanism has not been disengaged from the lid and the override pins have not been removed. There is no reason to disengage the mechanisms to install the VisionVent but failure to check this could result in mechanical damage. Switch on the mains to the 24V supply. If the mechanisms cannot be seen from the switch position ask for assistance – when operating the VisionVent for the first time it is important to check that both mechanisms are working in tandem. When you are ready to run the VisionVent press and hold the operating switch in the open direction. If the mechanisms do not function as expected within a few seconds release the switch and contact Glazing Vision for assistance.
10. Complete site QC documents.