



GV Standard Free Standing Box

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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Free Standing Box Installation Instructions

Points to note prior to commencing installation:

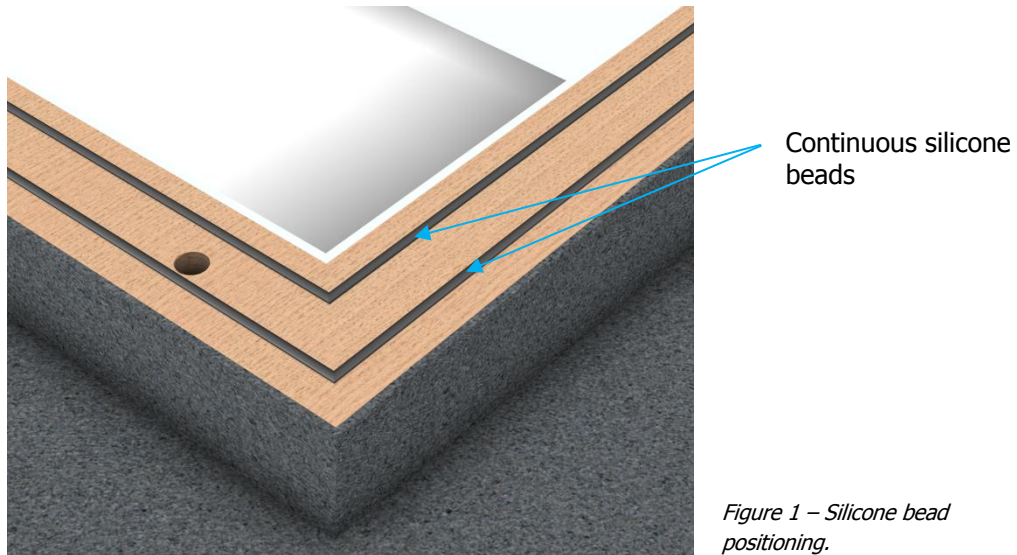
1. The Free Standing Box should arrive on site in undamaged packaging, which includes cardboard side and glass protection and low-tack tape base protection. Please inspect for damage to packaging and/or Free Standing Box and advise Glazing Vision upon receipt.
2. Enclosed within the box containing this 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.
3. For electrically-operated Free Standing Boxes 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 607-ASS-013 for details of wiring requirements.
4. The switch used to control the operation of the Free Standing Box 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.

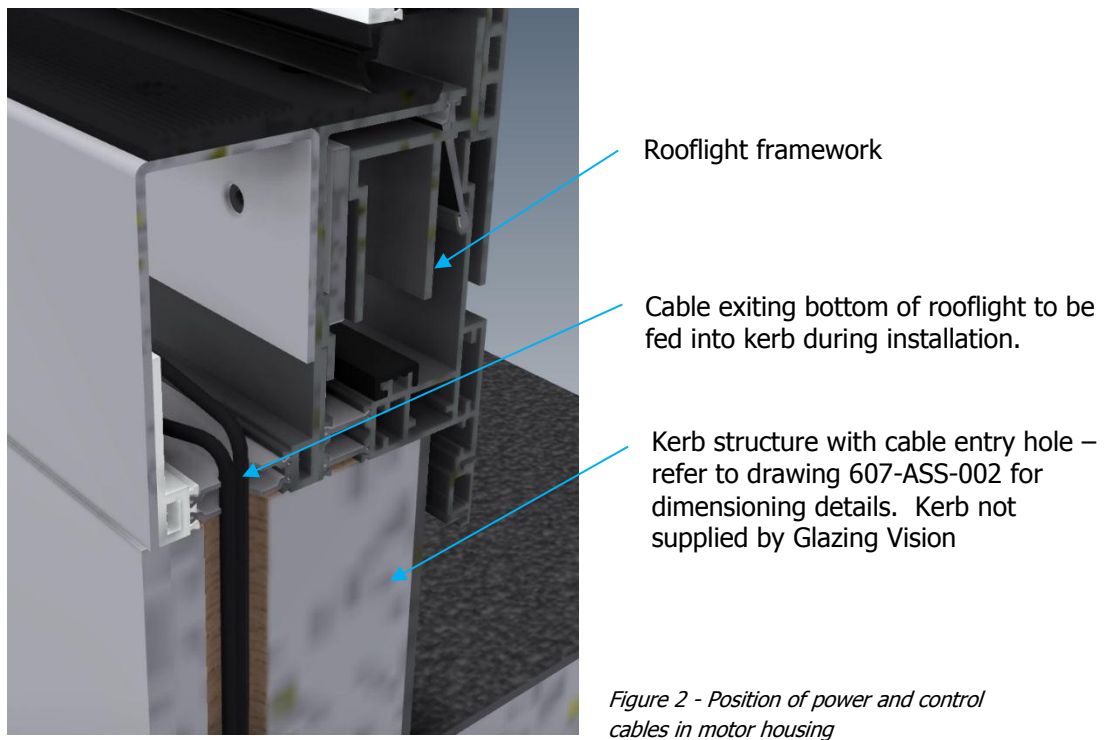
5. The other switch supplied in the installation kit is of double-pole single-throw (DPST) type. Installing this switch as per drawing 607-ASS-013 will allow the Free Standing Box control board to be reset in the event of a fault (for more on faults see the Operation & Maintenance manual).
6. The kerb should already be in place for the product. The dimensioning of the Free Standing Box will have taken into consideration the external dimensions of the upstand including all weathering. A guide for the kerbs is given in standard drawing S0001. The construction of the kerb is detailed more specifically on standard drawing 607-ASS-002.
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 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.**

Installation procedure

1. Apply 2 continuous beads of silicone roughly in positions shown in *Figure 1*.



2. Ensure that provision for the cabling in the upstand is of suitable dimensions and positioned correctly as shown on drawing 607-ASS-002. *Figure 2* depicts the cables exiting through the bottom of the rooflight into the kerb structure:



3. 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 5*.

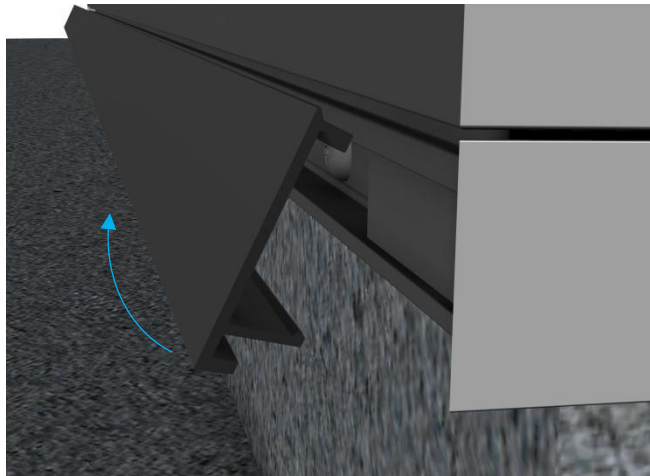


Figure 3 – Clip release direction

4. Fix the dripleg flashings to the kerb using the No10 x 2½" woodscrews and horseshoe packers supplied as per *Figure 6*, taking care not to overtighten them and distort the dripleg flashings or surrounding silicone beads. 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.

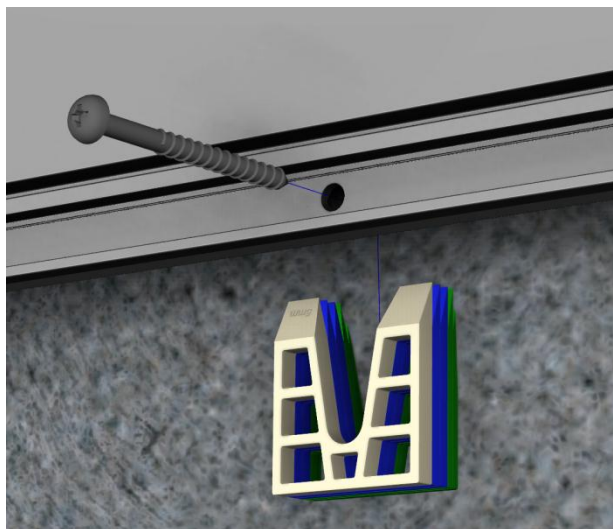


Figure 4 – Packing and fixing

5. After applying all fixings, clip on the covers around the base perimeter.

6. To complete the installation the flying connections from the Free Standing Box must be terminated as per drawing 607-ASS-013. It is recommended the transformer is placed within 10 metres of the Free Standing Box 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. Once all cables are in place, attach the low-voltage power warning sticker (P0049) to the 2-core cable coming out of the rooflight.
7. For ease of access, an extension has been fitted to the ECT port on the PCB. The extension runs up the vertical leg on the closing-edge side, and is accessed by removing the white clip-on cover on the horizontal leg as shown:

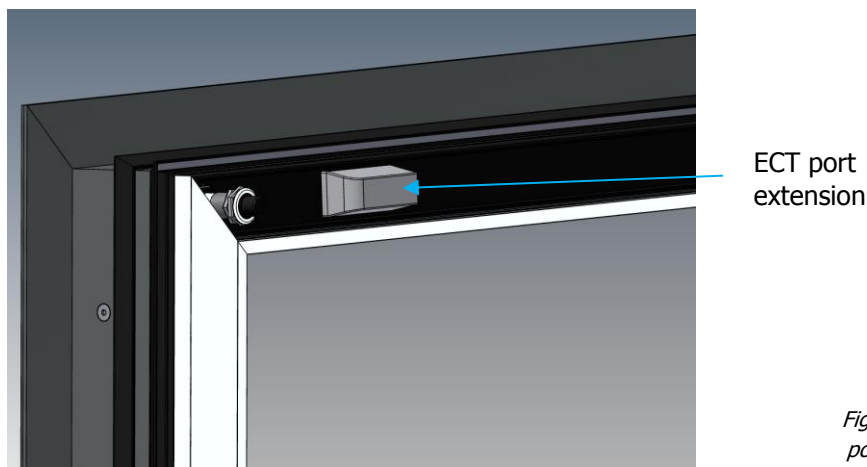


Figure 5 – ECT port extension

This allows the ECT to be connected and used without removing the step.

8. To commission the Free Standing Box, first check there are no obstructions preventing the door from moving freely e.g. scaffolding or loads placed on the door. Check on the rear of the door that any transportation collars have been removed from the sliding rail. Switch on the mains to the 24V supply. When you are ready to run the Free Standing Box 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.
9. Complete site QC documents.