GLAZING VISION

GV Standard Skydoor

Installation Instruction Manual

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

Contents

Skydoor Solo Installation Checks

Points to note prior to commencing installation:

1. The Skydoor 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 will be the required number of fixing woodscrews and a number of horseshoe packers. The installation kit comes complete with two switches and any additional optional items selected at the time of order.
3. Skydoors have two coiled cables and an earth wire emerging from the motor housing as standard; this includes a 3-core 240 V AC power cable and a 6-core control cable. The cables will have red identification labels (labels should not be removed until final installation) refer to Glazing Vision standard drawing 406-ASS-407 for details of wiring requirements.

   Note: If the battery-backed option for this product has been specified, an external PSU will be supplied. In this case, a 2-core 24V DC cable and a 6-core control cable only will exit the unit. Only the supplied PSU can be fitted to the unit, failure to connect this unit or wiring direct to the mains will invalidate the warranty.
4. The switch used to control the operation of the Skydoor 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 406-ASS-407 will allow the Skydoor 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 drawing S0001. The construction of the kerb is detailed on standard drawing 406-ASS-405.
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 ± 10mm of the ordered size. Check that the top of the kerb is flat within the plane of the slope. 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 +/-2mm. 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 Skydoor must be fitted so that the hinge is at the top of the fall.

Fitting Lifting Brackets

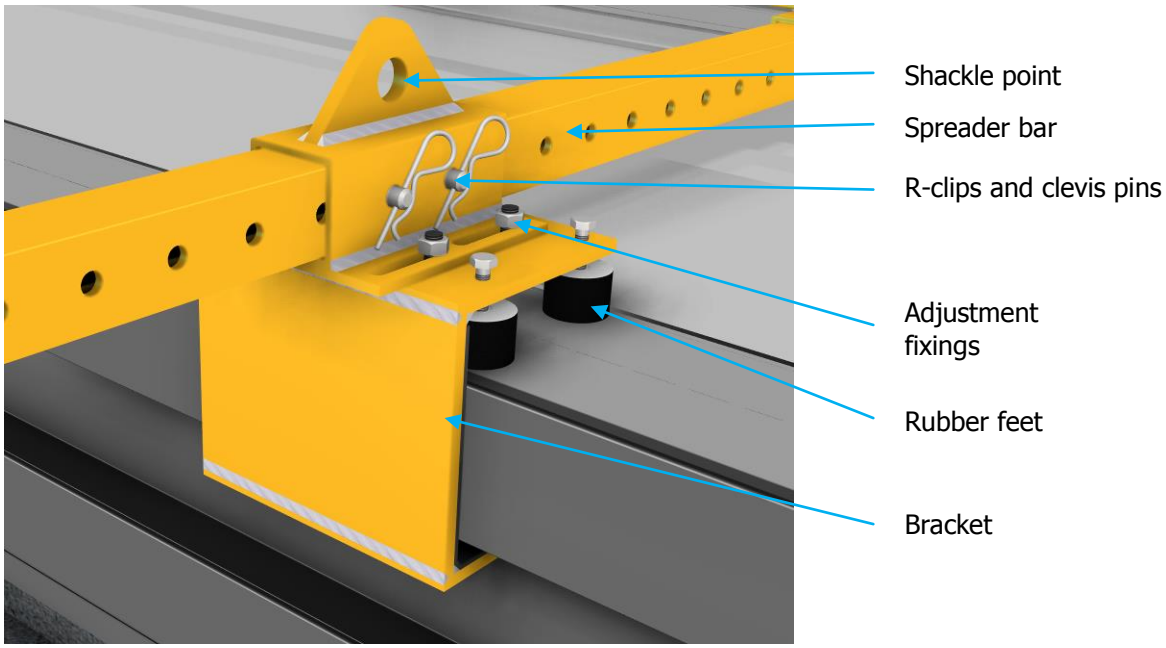

Figure 1 - Lifting bracket

1. Remove the clevis pins from the sliding brackets and move them apart until they're about 100mm beyond the span.
2. Carefully place the lifting bracket frame on top of the Skydoor. Then slide the brackets in until they stop against the base extrusion *(Figure 2).*
3. Replace the clevis pins through the closest holes in the spreader bar.
4. Loosen the adjustment fixings and slide the bracket until it is against the base extrusion.
5. Tighten the rubber feet on to the glass until the bracket is located in the base extrusion profile *(Figure 2).* Do not over tighten, the bracket only needs to locate so it does not fall off but does not need to be clamped on.

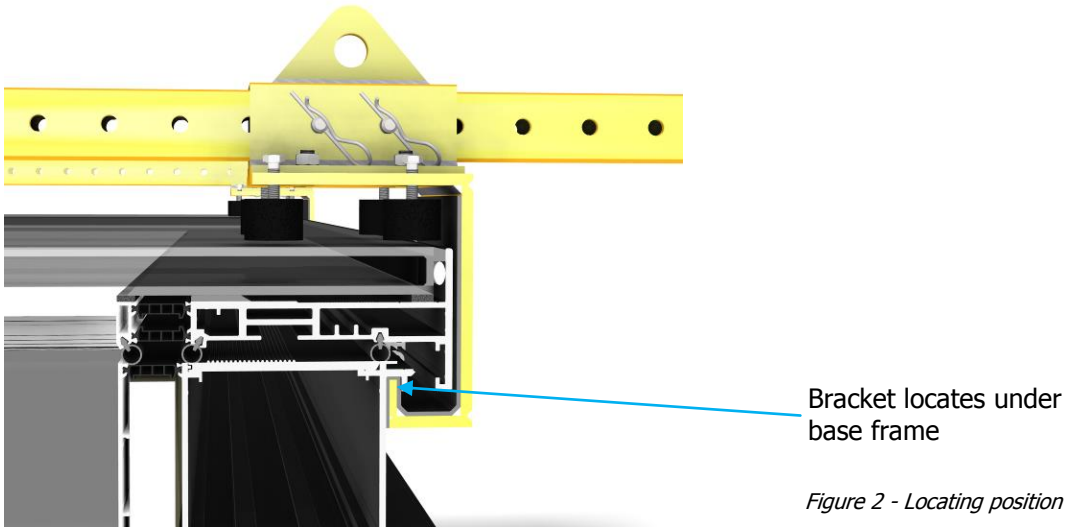

Figure 2 - Locating position

Installation procedure

1. Check that all fixings on the lifting frame are present and secure.
2. Apply two large runs of silicone (supplied in installation kit) approximately 50mm in from the inner and outer faces of the kerb as shown in *Figure 3*.

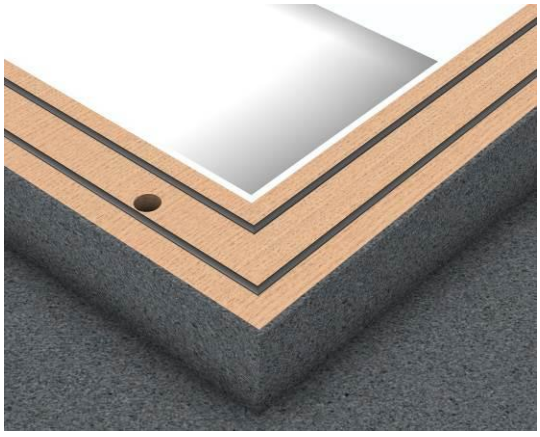

Figure 3 - Silicone placement

3. Attach hooks to shackle points on lifting frame.
4. Lift rooflight to the roof.
5. Lower unit to kerb leaving head room to access all areas of the rooflight *(Figure 4)*.

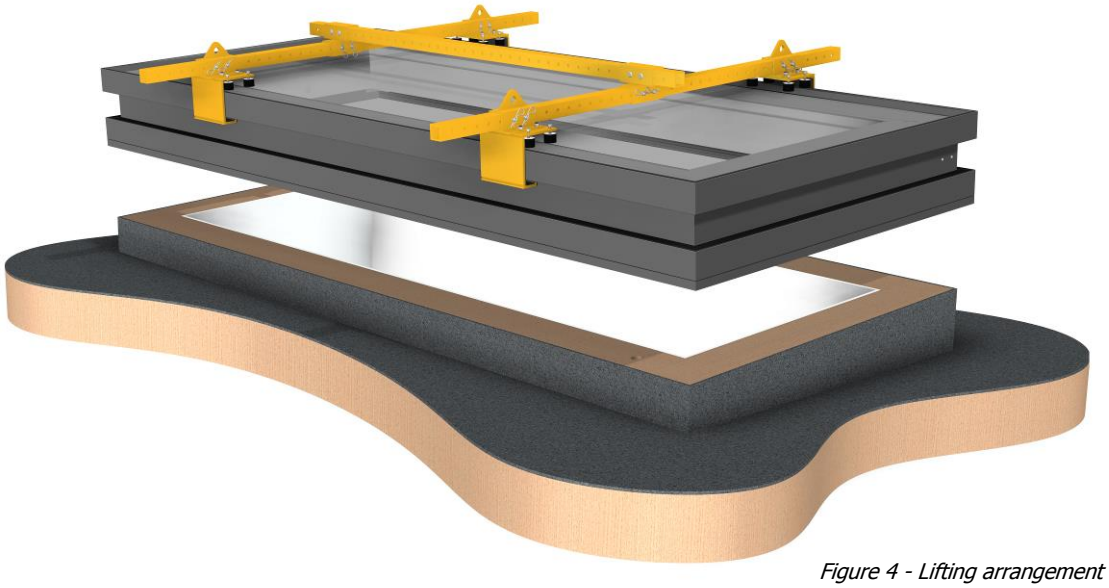

Figure 4 - Lifting arrangement

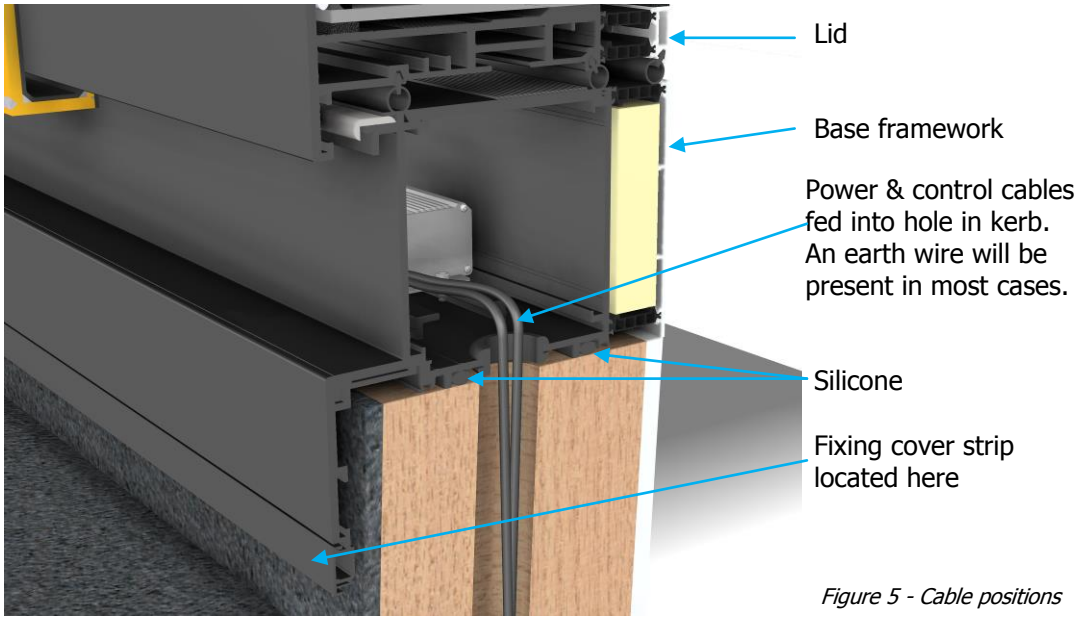

Figure 5 - Cable positions

6. Feed the power and control cables from the base framework into the hole in kerb *(Figure 5)*. If options have been specified there will be additional cabling.
7. Gently lower the rooflight to the kerb ensuring that no cables are kinked or snagged under the framework.
8. With the base framework in contact with the kerb top and majority of the weight still supported, adjust the position of the rooflight on the kerb so that the internal framework is equally spaced and aligned with the internal finishes.
9. Carefully release the weight of the rooflight.
10. Release the lifting hooks from the shackle points and remove the crane.
11. Gently prise the kerb fixing cover clip off framework drip leg *(Figure 6).*

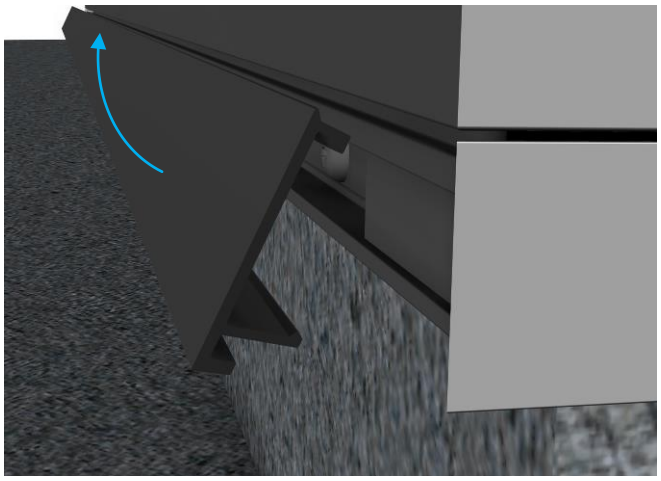

Figure 6 - Clip on cover

12. Pre-drill 2.5mm into the kerb through the holes in the drip leg. Secure the base frame to the kerb using the woodscrews and packers provided in the hardware kit. The packers must fill the gap between the kerb and rooflight base frame for each woodscrew *(Figure 7).*

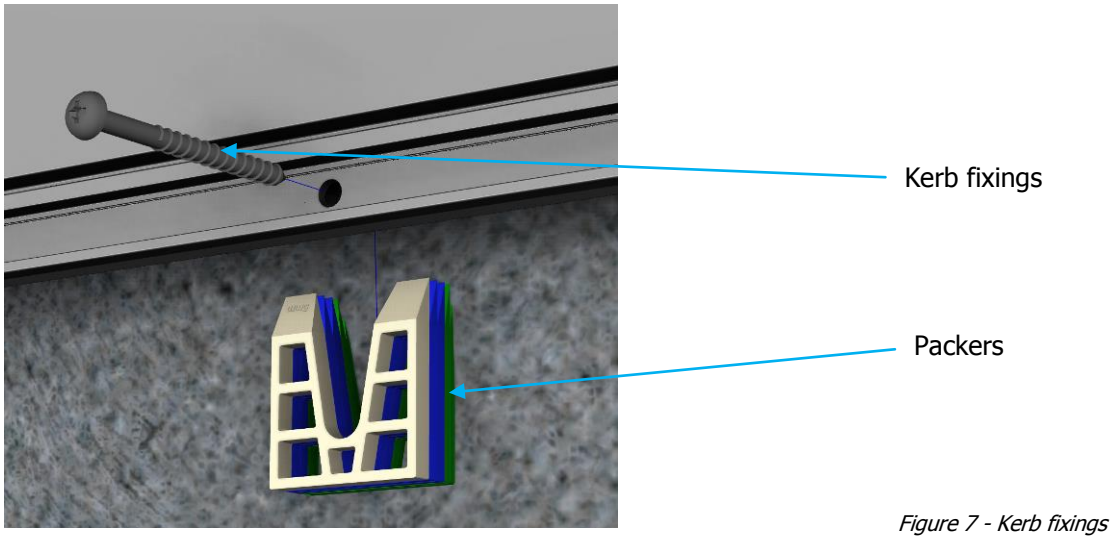

Figure 7 - Kerb fixings

13. Slacken the adjustment fixings on the shackle point bracket *(Figure 1).* Keep the rubber feet in their position to prevent contact between lifting frame and rooflight frame or glass.
14. Slide the brackets to release them from the lid. The R-clips and clevis pins can be removed to allow more adjustment where required. Lift the frame with brackets away from rooflight.
15. Terminate cables and apply power (Ref 406-MAN-407).
16. Follow the Site QC document for testing etc.