GV Standard Ridgeglaze

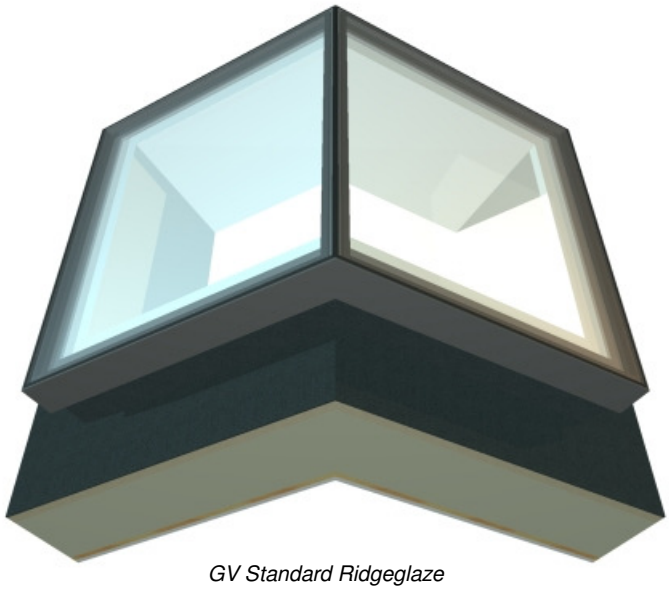
Operation and Maintenance Manual

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

Contents

Introduction

Thank you for purchasing a Glazing Vision Ridgeglaze. We hope that it gives you many years of service. The Ridgeglaze is available as a standard unit pictured below or as a series of multi-part units to create a larger rooflight. Should you have any queries beyond this manual please do not hesitate to contact us.



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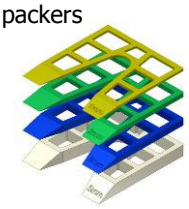
Delivery

The Ridgeglaze unit should arrive on site in undamaged packaging consisting of sterling board edge protection and polyfoam to protect the glass. The complete package will be securely wrapped using Glazing Vision branded packing tape. A separate box containing the installation hardware should also be received. Please inspect for damage to packaging and unit and advise Glazing Vision within 48 hours from signing the receipt of your delivery of any damage or shortfall.

Standard Installation Hardware:
Enclosed within the hardware box for each unit you should find the following:

Plastic horseshoe packers including 1mm, 2mm, 3mm and 5mm:

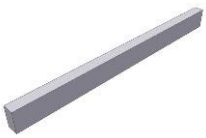


Button head woodscrews:

Rolls of butyl tape:

Additional installation hardware for all multi-part units:

Aluminium joining plates:



Black silicone for glass joints (unless other colour specified):

Polyethylene backing rod:

For back-to-back angle units the kit will include:

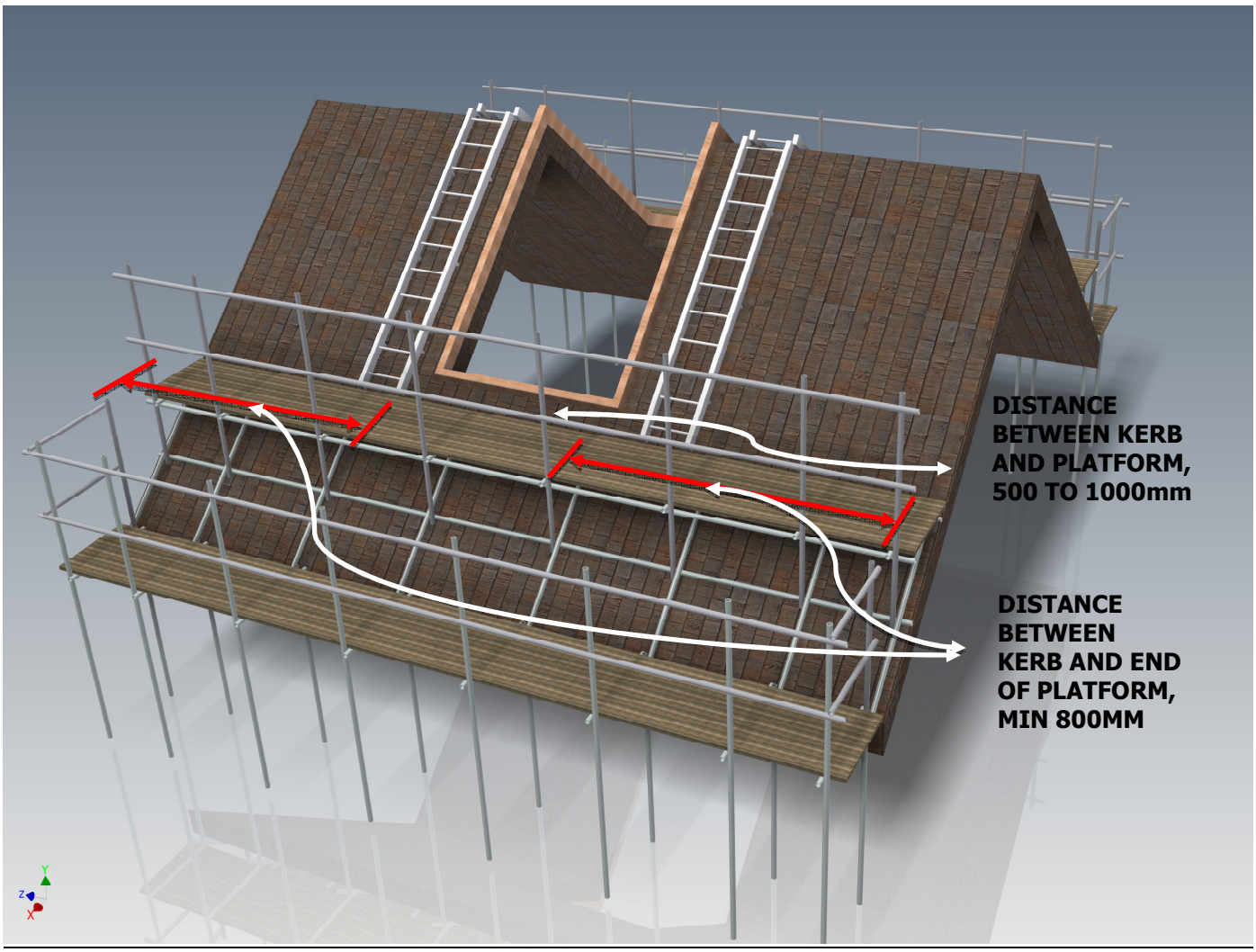
M6 Countersunk barrel bolts:

Additional installation hardware for wall abutments:

Expanding Hilti-Bolts:

Pre-Installation

Required Access Arrangement Drawing



Pre-installation check items

Please take a moment to check these before installing your unit.

1. The Ridgeglaze unit should arrive on site as two separate parts in undamaged packaging, which includes sterling board, and polyfoam glass protection. Please inspect for damage to packaging and advise Glazing Vision on receipt.
2. Enclosed within the box containing this manual you should find a packet containing ridge cleats, woodscrews, a selection of plastic packers for edge support, polyethylene expanded foam-backing rod, and some silicone. Expanding foam tape will need to be supplied by others if it is required, as it is not included in the Ridgeglaze hardware pack.
3. For a cross sectional detail of a fully installed Ridgeglaze, please refer to the Glazing Vision Standard Drawing 402/ASS/022.

Installation procedure

Ridgeglaze will be supplied as two separate parts with ridge cleats and will require some on-site silicone work. This work can be done by Glazing Vision Limited or by others (although this will not be warranted by Glazing Vision).

1- Turn the first section to be put into position upside down and place two runs of silicone into the grooves on the underside of the extrusion as shown in figure 1.

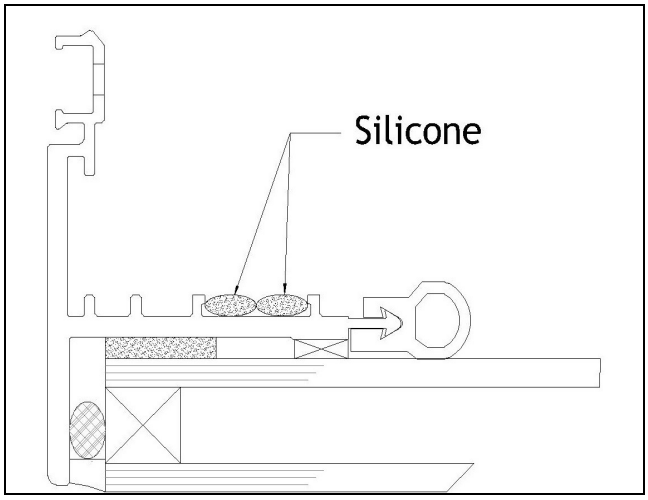


Figure 1- Silicone *position.*

2- After the silicone is applied, turn the section over again and place it onto your upstand ensuring that it is centred, i.e. drip flashing overhanging equally round all sides. The section should line up with the upstand centre line at the apex as shown in figure 2. Use No: 12 x 2" woodscrews and the horseshoe packers supplied with the units to hold the section in this position. Fixings should be predrilled 3.2mm to a depth of 50mm.

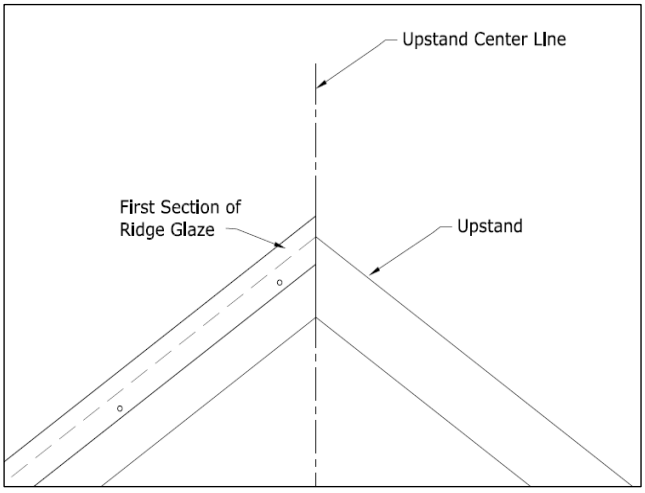


Figure 2- *First section location*

3- Place the ridge cleats into the fixed section. Ensure that the centre line of the cleats lines up with the upstand centre line at the apex as shown in figure 3.

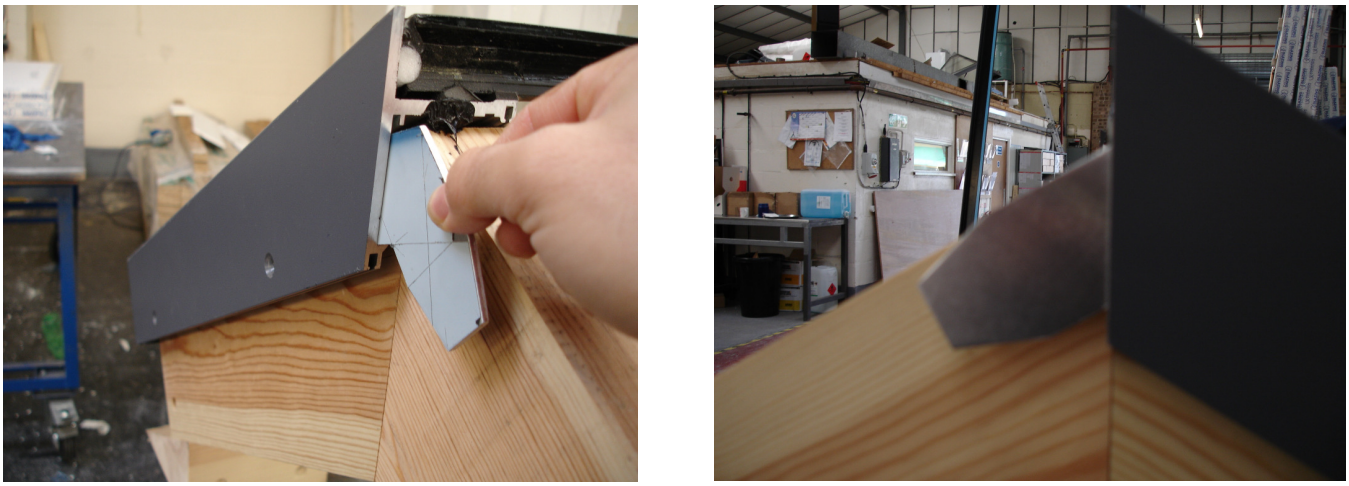


Figure 3*- Ridge cleat location*

4- Repeat step one for the second section.

5- Put the second section onto the kerb avoiding contact with the ridge cleats which are designed to help align the separate sections, not to carry vertical loads. Once you put the section down away from the cleats, start sliding it up towards the first section. When you get close to ridge cleats, make sure the cleats are engaging at both ends, and they are not pushed in any direction, as shown in figure 4. The second section can now be pushed up completely to meet the first section at the apex, ensuring that no large gaps are present. You may put some screws in at the eaves end loosely so that they take up the weight, enabling you to move the section more comfortably to get the best possible detail at the apex.

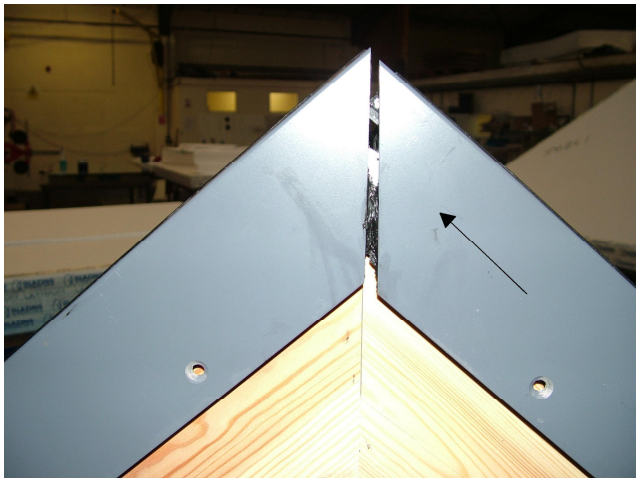


Figure 4 - *Second section is pushed up to meet the first section at the apex.*

Once you are happy with it, use the supplied woodscrews and plastic horseshoe packers to keep the section in position and to fix it down as shown in figure 5.

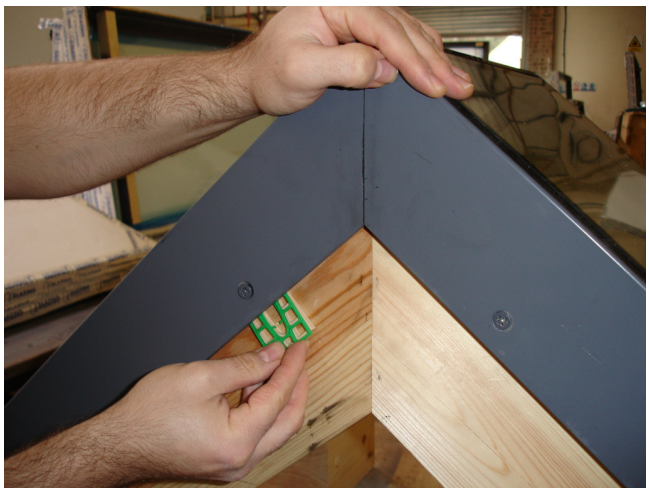


Figure 5 - *Use supplied screws and horseshoe packers to fix the sections down.*

After the sections are fixed, you should have approximately 8 mm gap between the double glazed units along the ridge. This detail slightly changes depending on the roof pitch, refer to drawing 402/ASS/022 for details.

6- Next, apply the supplied polyethylene expanded foam-backing rod and the silicone respectively into the gap formed between the double glazed units, as shown in figure 6. Please make sure you have a continuous silicone joint/seal along the ridge, failing to do so may result in water leaks.

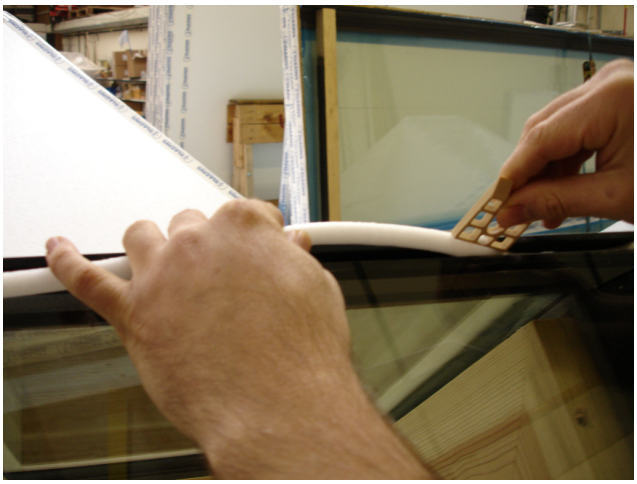


Figure 6 - *Applying polyethylene expanded foam-backing rod and silicone.*

If the roof pitch is between 40 and 50 degrees, same application will need to be repeated internally as well, as our drawing 402/ASS/022 shows. When tooling off the excess silicone from outside, make sure you do not create a cavity where water can pond and potentially affect the seal quality in the future. Please also apply some silicone to the extrusion joints at the apex to fill possible gaps and to seal the unit.

Standard Glass Specification:

Glazing Vision's standard glazing specification of each unit is as follows:

Double Glazed	6mm toughened heat soak tested outer pane 16mm argon filled silicone sealed 6mm toughened heat soak tested soft coat low E inner pane

Table 1: Standard glass make-up

Various other options are available at time of order. If specific data is required for the glazing please contact Glazing Vision for a glass data sheet for the specification installed within your rooflight.

Breakage Instructions

Should the glazed unit break for any reason, a new unit would need to be supplied. This is due to Glazing Vision's unique method of bonding the glass unit into the frame. Glass breakage is not covered in the product warranty unless the breakage is a direct result of Glazing Vision Limited or its product failing. In the event of the glass being damaged please contact Glazing Vision to order a replacement.

General Maintenance & Safety

To make sure the Ridgeglaze unit remains in good working order; there are a few basic points that should be observed.

1. Unless the unit has been specifically designed for walk-on purposes or increased loading, do not load the glass of the Ridgeglaze as this may cause damage to the units and / or glass. Our units are designed to carry maintenance loads so can support the weight of one person so long as spreader boards are used.
2. Do not use any abrasives or aggressive cleaners on the unit as this may affect the powder coated finish and the glass finish.

Service Contract

It is recommended that a general inspection is carried out on the unit at least once every 6 months. Glazing Vision, if required, can offer a service / maintenance contract. Please contact our office for further details.

Cleaning of the Unit

The combination of the Ridgeglaze's unique bonding method ensures there is no water ponding on the glass. Water ponding creates watermarks and unsightly staining. To clean the glass, any standard glass-cleaning product can be used. However take care not to use abrasive materials or cleaners as this may affect the unit and its finish. The framework of the unit can be cleaned using warm soapy water with a soft lint free cloth.

COSHH and Safe Disposal

There are no hazardous materials used in the construction of the Ridgeglaze. When disposing of the Ridgeglaze unit, please recycle wherever possible. The following materials are used throughout the unit:

- Aluminium Extrusion
- Aluminium Corner Brackets
- Stainless Steel Fixings
- Low Modulus Silicone
- Toughened Glass Panes
- Polyurethane Adhesive (Glass to Frame)
- Acrylic Adhesive (Corner Joints)
- Polyester Powder Coated Finish
- Butyl Tape
- PVC Foam Tape
- Polyethylene Backing Rod
- Aluminium Spacer Bar

Table 2 – Flushglaze Material List