

[glazingvision.co.uk](http://glazingvision.co.uk)

**GLAZING  
VISION**

Read our technical blog at [glazingvision.co.uk/blog](http://glazingvision.co.uk/blog)



Bespoke rooflights tailored specifically to your needs. All standard products are available in BIM models by request.



Glazing Vision have manufactured and supplied over 25,000 rooflights



Our rooflights can be found all over the world in over 20 different countries



Technical experts in the design, manufacture

and supply of precision engineered,

architectural glass rooflights for residential

and commercial buildings since 1994.



First glass flat rooflight manufacturer to be approved by the British Board of Agrément



We deliver RIBA approved CPD seminars to architectural practices throughout the UK



Our Technical Specification Team are one of the best in the industry and have handled individual rooflight projects in excess of £1m

Over 20 years experience in design and manufacture of glass rooflights



**rooflights.com**

**Did you know?** Glazing Vision sells a selection of its most popular rooflights online for next day delivery at [rooflights.com](http://rooflights.com)

things are  
looking **up**.



the original flat glass rooflight



flushglaze®

## simplicity

The Flushglaze is simplicity itself, a minimalist fixed rooflight with 'frameless' internal views designed to allow as much natural daylight into a room as possible.

The Flushglaze is manufactured using high performance toughened heat soak tested low emissivity glass as standard and the perimeter frame is designed to allow the use of triple glazing, fire rated, solar control, acoustic and even switchable privacy glass.

The entire Flushglaze range of rooflights has been independently performance tested and approved by the British Board of Agrément and is also classified by official Police security initiative, Secured by Design. Tested to LPS2081/1 and certificated by the Loss Prevention Certification Board.

These products can be found in our [Secure](#) and [Secure+](#) range.



## modular system - silicone seals

The beauty of the Flushglaze system is its flexibility, for larger areas of glazing the glass panels can be linked together using a variety of different methods.

If you are working to a span of just over a metre then a simple silicone seal is the only requirement to secure the panels together.

This is a great solution if you are looking to maintain the 'frameless' internal appearance of your rooflight.



## modular system - aluminium angles

For larger spans you will need something stronger to safely support the joint between the glazed panels.

The Flushglaze modular system can also be specified with back to back aluminium angles that form a tee shape for structural support.

This option tends to fit in very well with modern interiors, particularly when paired with bi-fold or sliding door systems and the internal angles can be powder coated to any RAL colour of your choice.



## modular system - glass fins

If you're looking to maintain an all glass finish the Flushglaze modular system can be specified using glass fins as structural support instead of aluminium angles.

These are a real architectural feature and offer a slightly more elegant finish.

The fins are heat soak tested toughened laminated for maximum strength and are supported at each end by stainless steel shoes.



stay ahead of the **jonese's**



## eaves system

The eaves system takes the Flushglaze concept one step further by allowing the use of vertically glazed sections to be connected to overhead glazing.

In most cases a silicone seal is all that's needed to bond these sections together.

The results can be stunning.



Stairwell flooded with natural daylight by bespoke eaves rooflight pictured opposite.



Bespoke ridgeglaze rooflight with back to back angle supporting the ridge line.



## ridgeglaze system

Flushglaze is not just limited to flat roofs or a single pitch.

Glazing Vision have developed a 'ridgeglaze' system that is designed to be installed over the apex of your roof increasing daylight and sky only views on either side.



## walk on specification **flushglaze**

The versatility of the Flushglaze system is demonstrated perfectly in our walk on specification range of rooflights.

These products can unlock the potential of a terrace or dark basement without sacrificing usable space.

Our standard glass specification is designed to withstand regular foot traffic in domestic applications with uniform loadings of  $1.5\text{kN/m}^2$  and concentrated loadings of  $2.0\text{kN}$  in accordance with BS EN 1991-1-1-1:2002.

Glazing Vision can also design and manufacture walk on products for other applications such as public areas, commercial or heavy duty applications.



## secure and secure+ rooflight range

Security isn't something you leave to chance, you should ensure that all windows, doors and rooflights are secure by specifying the right product for the job.

Glazing Vision's **Secure** and **Secure+** range of rooflights have been exhaustively tested against LPS2081 Issue 1:2015 standards to comply with Building Regulations Approved Document Q - Security in Dwellings.

LPS2081 Issue 1:2015 is specifically designed to replicate the types of 'stealth' attack common to domestic properties.

These rooflights are also supported by official Police security initiative 'Secured by Design' which encourages manufacturers to consider the security performance of their products at the design stage.

Testing must be carried out to a relevant security standard before it can be awarded the Secured by Design mark.

To be sure your product will be able to withstand a sustained attack by the most determined of intruders, look for the Secured by Design logo to identify which products have been tested and are compliant with Building Regulation Part Q



**GLAZINGVISION**  
securesecure+



LPS 2081: Issue 1  
Cert/LPCB ref: 1347a

Secured by Design



Police Preferred Specification

feature rooflights



## pyramid & lantern

Considered an architectural feature as well as a rooflight our pyramid and lantern products are a contemporary evolution of the traditional roof lantern.

Glass to glass joins feature extensively on these rooflights minimising visible framework and maximising the amount of natural daylight that will flood into your building.

Our pyramid rooflight features a built in downlighter in the apex cap providing a visual focal point in the evening. The lantern rooflight is available as a standard 45° pitch with glass to glass joins.

All framework is thermally broken and low emissivity glass used throughout for fantastic thermal performance.



integrated LED downlighter



hinged ventilation rooflights



## visionvent<sup>®</sup> manual

Our VisionVent rooflight range continues the design ethos of minimum framework, maximum daylight whilst offering a means of harnessing natural ventilation.

All of the VisionVent range benefit from dual colour thermally broken framework with external profiles designed to complement the Flushglaze aesthetic.

The entry level rooflight is a manually operated unit which is opened using a screw jack and telescopic pole mechanism. Opening size will vary depending on the size of rooflight but is roughly 30°.



screw jack mechanism bonded to glass



chain actuated mechanism



## visionvent® chain drive

The VisionVent chain drive replaces the manual winding mechanism with an motorised chain driven unit.

This means that the rooflight can be opened at the touch of a button without the need for a telescopic pole and hook.

In addition to this the VisionVent chain drive can be connected to an integrated thermostat and rain sensor unit which will open or close the unit based on user settings.





## visionvent® electric

The electrically operated VisionVent is our top of the range ventilation rooflight and is available in both standard glass specification and also as part of our [Secure+](#) range of rooflights.

Twin motors and mechanisms are hidden within the framework which keeps visual clutter to a minimum as well as making the mechanisms secure from attack when the unit is closed.

Security is further enhanced by the hinge design which runs along the entire width of the rooflight. The hinge is part of the actual framework extrusion itself, not a separate mechanical fixing.

Power is via a 24v transformer which is supplied for connecting to mains electricity.

The opening lid section is supported on each side providing an extremely secure platform ensuring it remains completely stable in strong winds. This also means that the electric VisionVent can be manufactured in larger sizes than the manual or chain actuated versions.

This rooflight can be supplied with remote control and connected to accessories such as rain sensors, thermostats or Building Management Systems.



24v transformer and operating switch



concealed motor and mechanisms



sliding rooflights



## skyglide®

Skyglide is our entry level sliding rooflight, the sliding lid section is entirely self supporting and opens using telescopic cantilever rails hidden within the framework.

The unit opens using a robust, precision engineered rack and pinion drive system which also incorporates a built in solenoid clutch to prevent the sliding section being forcibly back driven. Fully retracted, the Skyglide provides a 100% clear opening.

One touch opening as standard with a dual colour thermally broken frame, the Skyglide can be supplied with remote control or connected to accessories such as rain sensors, thermostats and Building Management Systems.



rack and pinion drive system with solenoid security one way clutch

## sliding over fixed

If space on the roof is tight the Glazing Vision 'sliding over fixed' rooflight could be the best option.

This rooflight is usually split into two sections, with one sliding pane of glass moving over a fixed section.

This configuration allows the maximum amount of light to be transmitted whilst opening up 50% of the overall footprint for ventilation.

Power is transmitted through a twin drive rack and pinion system with large diameter carriage wheels and hard anodised tracks to provide smooth travel when in motion.

The Sliding Over Fixed features a one way solenoid clutch and built in anti lifting mechanism so the sliding section cannot be forcibly back driven.

Our Qualicoat approved polyester powder coated frame is supplied dual colour as standard and is thermally broken using 39mm polyamide thermal breaks and closed cell PIR insulation.

Improved thermal performance can be achieved by specifying triple glazing which is now a standard option with the latest frame design.



rack and pinion drive system with large diameter carriage wheels



## sliding over roof

For larger areas where there is sufficient unobstructed roof space for the sliding section you should consider a 'sliding over roof' rooflight.

With this rooflight the glazed section slides as a single leaf and is supported by tracks on the roof itself in the open position. These form part of the framework and allow more scope in size and specification whilst maintaining the 100% clear opening.

All Glazing Vision sliding rooflights are manufactured using heat soak tested toughened low e glazing and are available in triple glazing for even better thermal performance.

The Sliding Over Roof includes all of the main security features of the Sliding Over Fixed and is operated using the same rack and pinion drive mechanism with one way clutch system.

All sliding rooflights can be supplied with remote control and connected to a rain sensor, thermostat and Building Management System.



open engineering



hinged access rooflights



## skydoor®

Skydoor is our most popular hinged access rooflight and is designed for day to day access to your roof space, ideal for terrace areas on flat roofs.

Operated by our intelligent LED control switch, the unit will respond to both one touch and press and hold requests.

The Skydoor opens out to an impressive 87° at full travel by means of synchronised dual actuators but you can also stop the unit at any point mid travel which means it can be used as a natural ventilation rooflight too.

Safety features include current override sensors, anti slip threshold tread plate and also a three point thru beam proximity detector system which will sense any movement beneath the opening section when in motion and prevent the lid from closing until the switch is engaged again.

The Qualicoat approved polyester powder coated framework is supplied dual colour as standard and is thermally broken using a combination of 39mm polyamide breaks and closed cell PIR insulation.

Skydoor is available in both double glazed and triple glazed toughened heat soak tested low e glass for outstanding thermal performance.



three point thru beam proximity detector



skydoor®



thermally broken aluminium frame  
with 39mm polyamide thermal breaks  
and closed cell PIR insulation

## skyhatch electric

Skyhatch electric is an access unit primarily, opening to a maximum 80° at full travel and can be stopped at any point to serve as a natural ventilation rooflight.

The extruded aluminium framework is thermally broken and supplied as standard in dual colour Qualicoat approved powder coat.

Power is supplied by an external 24V 300W supply as standard and the rooflight is operated by the intelligent LED wall switch supplied. Dual lift twin mechanisms provide reliable and stable support for the lid section when fully open.

As with all of our electronically controlled rooflights, the Skyhatch offers full connectivity to rain sensor, thermostat and Building Management Systems and is available with remote control.



dual lift electric scissor hinge mechanisms

## skyhatch manual

The Skyhatch manual is our entry level access rooflight and does not require any power, this version of the Skyhatch is used where access to the roof space is less frequent and is commonly installed for maintenance access.

The manual version opens to a maximum 75° at full travel but unlike the electric version it cannot be partially opened so is not designed to act as a ventilation rooflight.

We have increased the maximum size of this rooflight which has required some key design changes to the product in order to make it easier to lift the extra weight of the glass lid.

The latest version features a complete re-design of the gas strut opening mechanisms which now feature calibrated spring assisted openings, we have also added an extra grab handle and repositioned them so that they are mechanically fixed to the frame itself for added strength and durability.

For extra security and improved weather performance an all new multi point locking system has been developed so that the lid section is locked at either end of the rooflight.

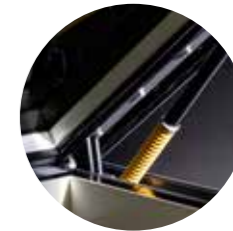
The extruded aluminium framework is thermally broken and supplied as standard in dual colour Qualicoat approved powder coat.



easy grip handles to aid open and close



spring assisted gas strut mechanisms



multi point stainless steel locking system



## box access rooflights

When it comes to rooflights we make thinking outside the box a habit.

This ethos has never been more clearly demonstrated than with our flagship range of terrace access rooflights, designed to unlock rooftop space and transform the dynamics of your building.

Continuously improved and refined over the last 15 years, our box rooflight range represents a fusion of technologies and engineering excellence combined to provide you an effortless transition between inside and out.

Thermal efficiency has been designed in by the use of thermally broken framework and low emissivity triple glazing as standard.

The beating heart of these products, the motor and drive system has been completely redeveloped with power being transferred to the front and rear of the unit simultaneously to ensure a smooth glide when opening and closing.

We've made it prettier too by perfecting glass to glass interfaces and minimising visible framework, the fit and finish is almost jewel like.

It's more than just a rooflight, it's an architectural sculpture in glass and metal and the key to achieving a view you never thought possible.

more than just a rooflight



## freestanding box

Box rooflights are the perfect solution if you're looking for easy access to your roof terrace. Operated at the touch of a button, the user simply climbs the stairs whilst the rooflight is retracting into its open position and then walks straight out onto the terrace.

The specification of glazing used and physical structure of the design means that there is no additional requirement for balustrades around the rooflight.

Box rooflights can be manufactured in a variety of configurations but will generally consist of one sliding section of glass moving over a fixed section.

We manufacture two standard configurations, a freestanding box which features glazing on all sides and a three wall box which is designed to be shrouded by the walls of the building itself on three sides.





## three wall box

Our three wall box configuration is one of the most popular and can offer an almost seamless integration into the fabric of your building.

We have manufactured and installed countless numbers of these units, predominantly in urban city environments where space is limited and home owners turn to maximising their roof space.



## box rooflight technology

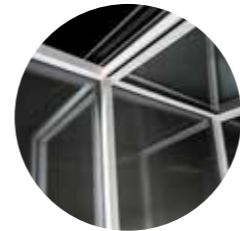
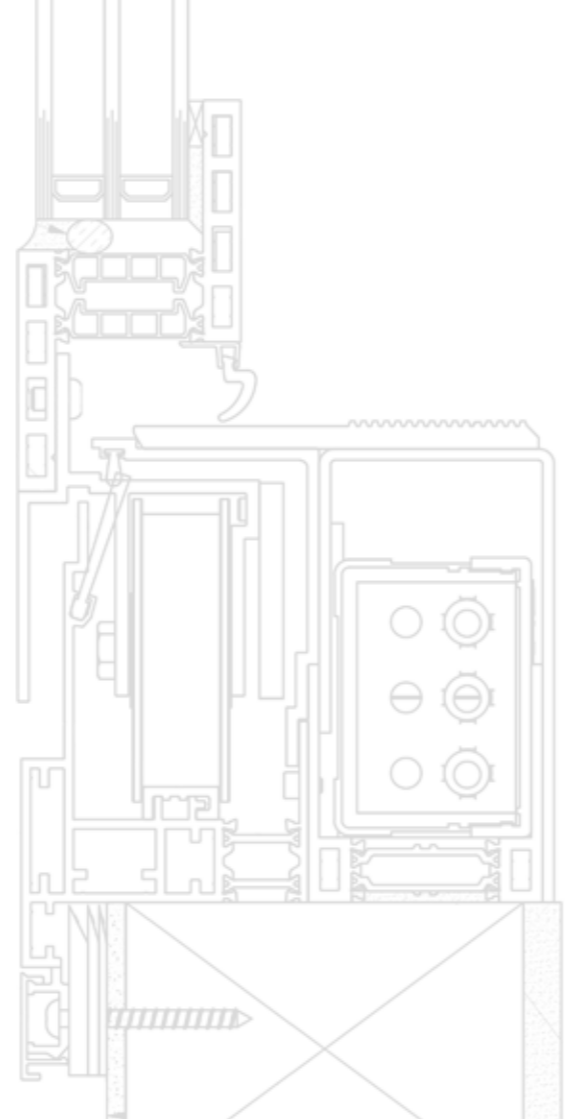
Our latest generation of box rooflights are all available with high performance triple glazing and thermally broken framework so you can be assured that the thermal performance of this unit is unrivalled in its class.

Built in infra red proximity detectors are available as a standard option and should be considered essential with access products.

Framework is minimal and glass to glass joints are an outstanding feature, helping to retain the rooflights contemporary aesthetic.

Security has been upgraded with the standard addition of solenoid security bolts ensuring that the rooflight remains secure in all situations.

Glazing Vision box rooflights offer full connectivity to rain sensors, thermostat, remote control and Building Management Systems.



minimal dual colour framework



built in infra red proximity detector



glass to glass joints with silicone seals



reliable motor and locking mechanism



simple manual override with tool provided



carriage system

## aov safety rooflight



## xvent

Traditional Automatic Opening Vent (AOV) systems are usually manufactured featuring large industrial looking mechanisms required to open the unit during the event of a fire.

As the primary function is one of safety, little consideration is ever given to aesthetics, but Glazing Vision wanted to change that and prove that it is possible to manufacture a fully certified safety product that remains visually sleek and elegant.

The Glazing Vision xvent (AOV) rooflight has been tested and certified to BS EN 12101-2:2003 and cycled many thousands of times in order to meet European standards.

On installation it is connected to the fire alarm system which if triggered will automatically open the unit to 140° for effective smoke ventilation.

If connection to the fire alarm panel is lost it will automatically open and should the fire alarm system fail completely, the integrated thermostat will trigger the unit to fire position should the internal temperature reach 72°.

When running off the battery the xvent will emit an audible signal and the LED control switch will flash Red.

The xvent has dual functionality and can also be used day to day as a vent unit opening up to 45°.

Glazing Vision's xvent is available in two standard sizes providing internal clear openings of either 1m<sup>2</sup> or 1.5m<sup>2</sup> and can even be integrated into the Flushglaze system for larger roof glazing requirements.



# 140° < 60 sec

'The Glazing Vision xvent rooflight has been tested and certified to BS EN 12101-2:2003 and cycled many thousands of times in order to meet European standards.'



synchronised parallel linkage mechanisms



easy access diagnostic tool speeds up servicing



internal battery back up as standard in case of mains failure

**CE** tested and certified to BS EN 12101-2:2003



Sathish Nammi PhD from Anglia Ruskin University collaborated with Glazing Vision developing a methodology for accurately calculating thermal performance in rooflights.

technical **experts**

# bespoke rooflights

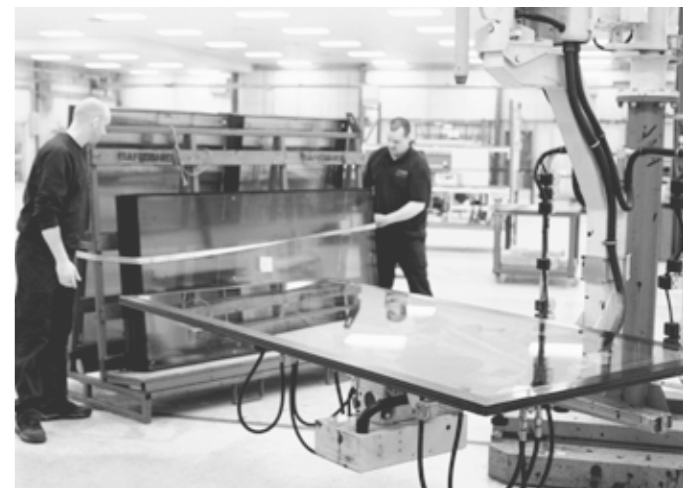




## manufacture

Every Glazing Vision rooflight is manufactured at our 65,000 sq ft facility in the heart of rural Norfolk.

From initial enquiry to completed rooflight it all happens under one roof and a visit to our site will find us designing, fabricating, machining, testing, bonding, filing, soldering, powder coating, assembling, cleaning, picking, wrapping, packing and dispatching rooflights to locations across the globe.



## installation

Many of our products are designed to be fitted by tradespeople and DIY enthusiasts, all of the information required to install the products can be downloaded online from the Glazing Vision resource centre.

Some of our more advanced rooflights require detailed set up to ensure optimum performance.

Our experienced project managers will work with your architect, builder or contractor to arrange a suitable time to get the rooflight on site, fitted and commissioned with the minimum of disruption.

Having your rooflight fitted by an approved Glazing Vision installer means you benefit from an extended guarantee, whatever the product.

Glazing Vision is also a member of the Contractor Health and Safety Assessment Scheme (CHAS) dedicated to completing health and safety pre qualification assessments to a nationally recognised and accepted threshold standard.



## flawless finish

We are very proud of the fact that we have our own environmentally friendly Powder Coating Plant using a Chrome Free conversion coating pre-treatment process.

All in-house painted profiles undergo a vigorous series of tests in our own paint lab which has enabled us to achieve Qualicoat standards for our painting process.

We are an approved Qualicoat Applicator, licence no. 1017, and can thus pass on the full paint warranty from the manufacturers of the powder coat we use which is the Akzo Nobel Interpon D1036 or D2525 range.



## independent testing

Our ultimate Technical Approval is the BBA Certificate for our complete Flushglaze range of fixed rooflights, approved by the British Board of Agrément (BBA). The BBA is the UK's major authority offering approval and certification services to manufacturers supplying the construction industry.

The product had to undergo a rigorous testing regime to achieve certification, with tests being carried out to determine air permeability, watertightness, durability of sealants, resistance to intrusion and resistance to cyclic loads.

The polyester powder coated frame was tested to determine resistance to artificial weathering, gloss retention, resistance to salt spray, adhesion to substrate, resistance to humidity, resistance to scratching and resistance to sulphur dioxide.

Our manufacturing process was evaluated, including methods adopted for quality control with details of the quality of components used.

Assessments and test reports were evaluated relating to fire performance, weather tightness and slip resistance.

Equations for calculating the U values of the rooflights from individual components were generated with thermal performance and temperature factors of the glazed rooflights assessed using thermal reference

The Flushglaze is the first glass rooflight designed for flat roof applications to be awarded a BBA certificate.

‘The Flushglaze is the first glass rooflight designed for flat roof applications to be awarded a BBA certificate’



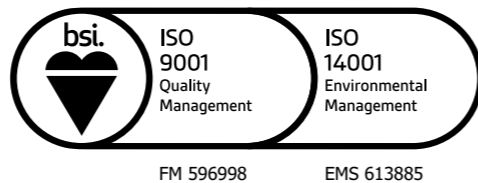
## quality assurance

### BSI ISO 9001 and 14001

Glazing Vision are ISO 9001 and ISO 14001 certified by BSI under certificate numbers FM 596998 and EMS 613885, so you can be sure we have robust Quality Management systems and procedures in place which are regularly audited by an external body.

Sustainable manufacturing is incredibly important to our company and the materials we use reflect that, we recycle our waste material and have pioneered the use of non chromate pre treatment of our aluminium extrusions.

Our design ethos is to strive for an elegant product whilst maintaining maximum thermal efficiency with the use of thermal breaks, insulated framework and high performance glass technologies.



## approved CPD

Glazing Vision regularly deliver RIBA approved Continuing Professional Development (CPD) to architectural practices across the UK keeping them informed about constantly changing rooflight and glass technologies.

These seminars provide industry professionals the opportunity to learn about new concepts and understand how they might be implemented into their designs.

We also cover how regulatory requirements may affect the specification process and provide advice helping specifiers avoid problems on site and select the right rooflight for their scheme.

Further information about CPD content and how to book can be found on our website.



## national association of rooflight manufacturers

Glazing Vision is a member of The National Association of Rooflight Manufacturers (NARM)

Founded in 1998, NARM comprises all of the UK's leading rooflight manufacturers and associated businesses and is an industry body dedicated to the application of best practice in the provision of natural light in built environments.

Their membership covers all types of rooflighting products, from polycarbonate domes to structural glass skylights and atria.

NARM represents a complete cross section of the rooflight design and material type manufacturers in the UK.

The association has been formed to promote co-operation between member companies, in order to develop and maintain standards and codes of practice – and to provide an authoritative information portal for rooflight specifiers.

‘The voice  
of the UK’s  
rooflight  
industry’

### The McGrath Centre St Catharine's College, Cambridge

**Product:** Bespoke shaped Flushglaze modular rooflight by Glazing Vision Limited  
**Architect:** RHP Architects



**The McGrath Centre is a multi-purpose building featuring Glazing Vision's Flushglaze modular rooflight, specified to address the requirement for enhanced light and space.**

The college has undergone numerous transitions since its opening in 1473, and is now a popular academic choice for

facilities, from meeting rooms to bars, auditoriums to lectures, performances to social occasions.



the Missing Kind



Glazing Vision was founded in 1994 by Hugh Callacher who remains the major shareholder of the company to this day.

These days the day to day running of the business is handled by the Glazing Vision board of directors allowing Hugh time to focus on numerous charitable projects via 'the Missing Kind' or tMK (Registered Charity No. 1156133)

tMK is a volunteer led charity registered with the UK Charities Commission, conceived and set up by Hugh as a holding trust for donated investments from commercial enterprise. Part of the profit that Glazing Vision generates is donated to tMK.

[missingkind.org](http://missingkind.org)



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