

[www.nextgenerationglass.com.au](http://www.nextgenerationglass.com.au)



With a combined 75 years experience and 18 months of negotiating and training, Next Generation Glass are proud to be affiliated with our international partner Glazing Vision UK.

Together we will be bringing the highest quality and tested glass roof light products to the Australian Market, Glazing Vision UK will be heading up our fabrication operations whilst Next Generation Glass will be exclusively distributing, installing and commissioning these great products.



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 can be manufactured using a variety of custom glass specifications to suit your chosen application, typical variations include double glazed units utilising toughened heat soak tested and heat strengthened laminated glass, triple glazed, walk on specification glass suited to your required loadings and even fire rated glazing.

Other options include acoustic glass for locations with high noise pollution, solar control and different types of privacy glass.

The entire Flushglaze range of rooflights has been independently performance tested for air permeability, water ingress, impact and fire resistance, thermal performance, life cycle and reliability.



## 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.





Standard colour RAL7015 Slate Grey (right)  
RAL9010 Pure White (above) special order.

## 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.

Image: ©Ben Blossom / Architect: Azman Architects





## 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 **joneses**

Modular Flushglaze units with internal back to back angles used to good effect in this contemporary home.





## 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.

Next Generation Glass can supply 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  $2.0\text{kN}$ .

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



## security 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.

Next Generation Glass rooflight products have been exhaustively tested and specifically designed to withstand typical 'stealth' attacks that are common to domestic properties.





pitchglaze

flush fit roof window





## Pitchglaze roof window

The Pitchglaze is a roof window variant designed to be installed in pitched tiled roof applications flush with the tiling line.

We have adopted our pioneering 'frameless' design ethos with this product so that when installed the building occupants can enjoy sky only views through the aperture, something not usually found with traditional roof window products.

The Pitchglaze is designed to be used at roof pitches between 15° and 60° and comprises of Qualicoat approved polyester powder coated aluminium framework combined with either double or triple glazing options.

When compared to more traditional roof windows the Pitchglaze is available in much larger sizes allowing increased amounts of natural daylight to penetrate the building whilst maintaining an low profile external aesthetic.

## feature rooflights

Pyramid rooflight  
integrated LED downlighter.



## 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.



## 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°.







## visionvent<sup>®</sup> 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.

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.

The opening lid section is supported on each side providing an extremely secure platform ensuring it remains completely stable when open. 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.



## sliding rooflights

Bespoke 6 x 6 metre sliding over roof rooflight installed in French residential property.



## 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.



# sliding over fixed

If space on the roof is tight the Next Generation Glass ‘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.





Bespoke sliding over roof unit including wall abutment detail, used for terrace access in London property.



## sliding over roof

For larger areas with 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.

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



Bespoke sliding over roof unit provides a connection with the outdoors in this minimalist scheme featured in C4's George Clarke's Amazing Spaces.

## hinged access rooflights





## 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 and it cannot be partially opened so is not designed to act as a ventilation rooflight.

The latest version features completely new 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 (top right) 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.







## skyhatch **electric**

Skyhatch electric is an maintenance 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.







## 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 (left) 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.



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



## box access rooflights





## 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.







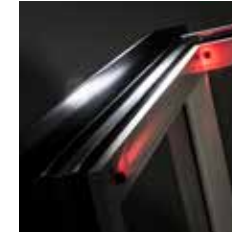
## three wall box

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 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.

Next Generation Glass box rooflights offer full connectivity to rain sensors, thermostat, remote control and Building Management Systems.

## 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, the Next Generation Glass xvent (AOV) proves that it is possible to manufacture a fully certified safety product that remains visually sleek and elegant.

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°.

The xvent is available in two standard sizes providing internal clear openings of either 1m² or 1.5m² and can even be integrated into the Flushglaze system for larger roof glazing requirements.

140° < 60 sec



synchronised parallel linkage mechanisms



easy access diagnostic tool speeds up servicing



internal battery back up as standard in case of mains failure

## bespoke rooflights



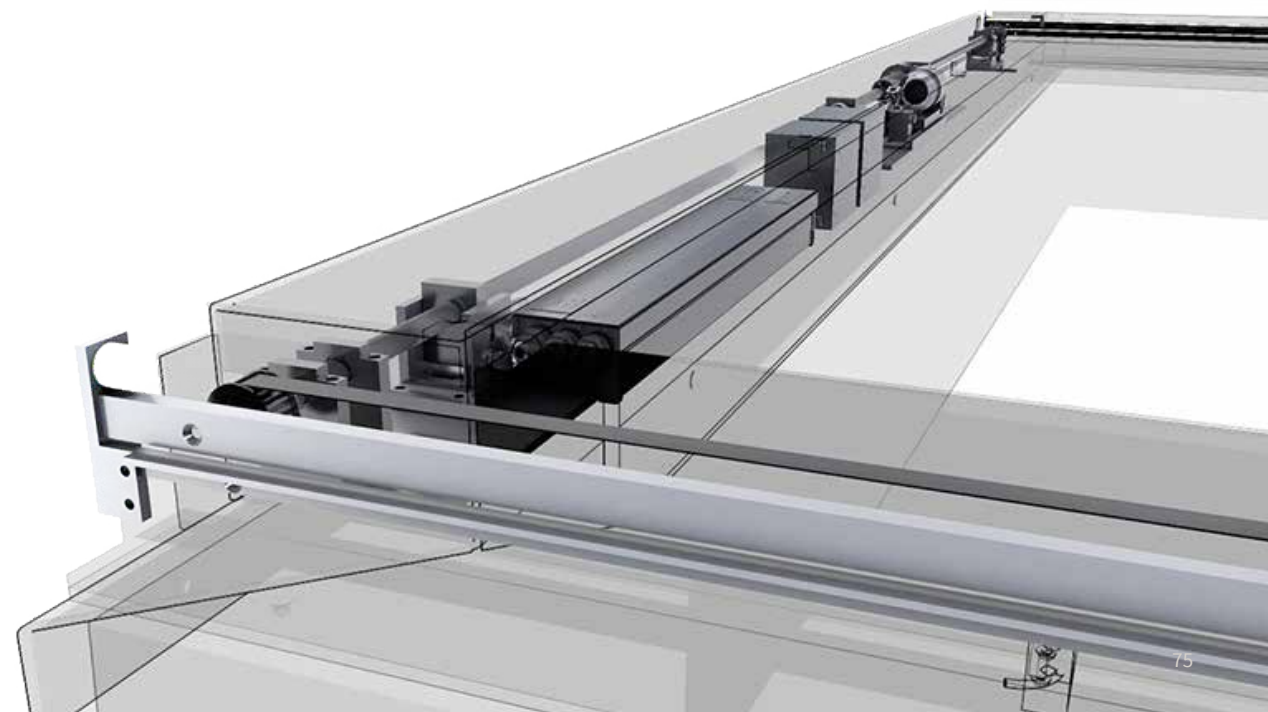


## design

Designing our products completely in house offers real advantages to our clients.

Our team are responsible for designing all of the mechanical aspects of our rooflights and we also have experienced professionals on site who develop our internal electronics and software.

If you're looking for something unique to your building, Next Generation Glass can provide you the opportunity to sit with a Design Engineer and Technical Specification Manager to find a solution that makes your scheme a reality.





## installation

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 Next Generation Glass installer means you benefit from an extended guarantee, whatever the product.



## 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.

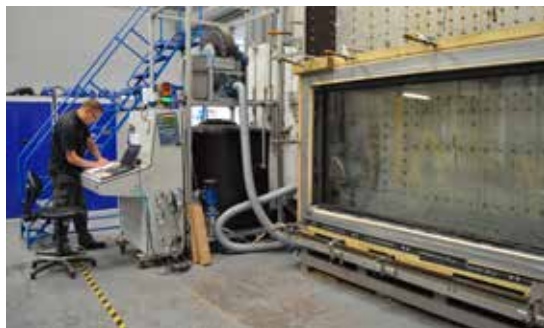
We are an approved Qualicoat Applicator, licence no. 1017, and can thus pass on the full paint warranty from the manufacturers of the powder coat we use which is the Akzo Nobel Interpon D1036 or D2525 range.



make your space work for **you**

Glass rooflight overhead makes this corner unit the perfect spot to read or relax.





## independent testing

Next Generation Glass rooflights have been tested for air permeability, water ingress, impact and fire resistance, thermal performance, life cycle and reliability to name but a few in order to ensure that your rooflight performs and functions as expected.

Our box rooflight range has recently undergone testing for water penetration and hose testing ensuring that the units can stand up to the worst the weather can throw at it.



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